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BS-2000 Series Biological Microscope**1. BS-2005 Biological Microscope**

BS-2005M



BS-2005B with mechanical ruler (optional)

Introduction

BS-2005 series biological microscopes are economical microscopes with basic features for educational applications in elementary and middle school. With the high quality material and optics, the microscopes can ensure you get high definition images. They are perfect for individual or classroom application. An incident illumination is available for non-transparent specimens.

Features

1. Monocular head, 360° Rotatable, users can view from any angles.
2. Maximum magnification can be up to 2500× with optional eyepiece and objectives.
3. Battery compartment comes with the microscope, 3pcs AA battery can be used as the power supply, easy for outdoor work.



Applications

BS-2005 series biological microscopes can be used for educational applications in elementary and middle schools. They also can be used as hobby for biological applications and small items identification.

Specification

| Item | Specification | BS-2005M | BS-2005B |
|--------------|--|----------|----------|
| Viewing Head | Monocular viewing head, Inclined at 45°, 360° Rotatable | ● | |
| | Binocular viewing head, Inclined at 45°, 360° Rotatable, Interpupillary distance 54-77mm | | ● |
| Eyepiece | WF10×/16mm | ● | ● |
| | WF16×/11mm | ○ | ○ |
| | WF20×/9.5mm | ○ | ○ |
| | WF25×/6.5mm | ● | ● |
| Nosepiece | Triple Nosepiece | ● | ● |
| Objective | Achromatic Objective 4×(185) | ● | ● |
| | Achromatic Objective 10×(185) | ● | ● |
| | Achromatic Objective 40×(185) | ● | ● |
| | Achromatic Objective 60×(185) (The performance is not good, not recommend) | ○ | ○ |
| | Achromatic Objective 100×(185) (The performance is not good, not recommend) | ○ | ○ |
| Stage | Plain Stage with Slide Clips 95×95mm | ● | ● |
| | Plain Stage with Mechanical ruler 95×95mm/60×30mm | ○ | ○ |
| Focusing | Coaxial Coarse and Fine Adjustment | ● | ● |
| Condenser | Single Lens NA 0.65 with Disc Diaphragm | ● | ● |
| Illumination | 0.1W LED Illumination, Brightness Adjustable | ● | ● |
| Spare Parts | Dust Cover | ● | ● |
| Power Supply | AC100-220V power adapter, microscope input voltage DC5V | ● | ● |
| | Battery compartment (can use 3pcs AA batteries as the power supply) | ● | ● |
| Package | Styrofoam & Carton, Dimension 28×19×40 cm, 3kg | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Images



2. BS-2009 Inverted Biological Microscope



BS-2009

Introduction

BS-2009 Inverted Biological Microscope is perfect for cell tissue observation and cultivation, specially designed for medical and health units, universities, research institutes to observe cultured living cells. With an innovative infinite optical system and ergonomic design, it has excellent optical performance and easy to operate features. This inverted biological microscope makes your work enjoyable. Digital cameras can be added to the trinocular head to take photos, videos and make measurement.

Feature

1. Excellent infinite optical system

Infinity optical system, perfect for cell tissue observation and cultivation.

2. Viewing head



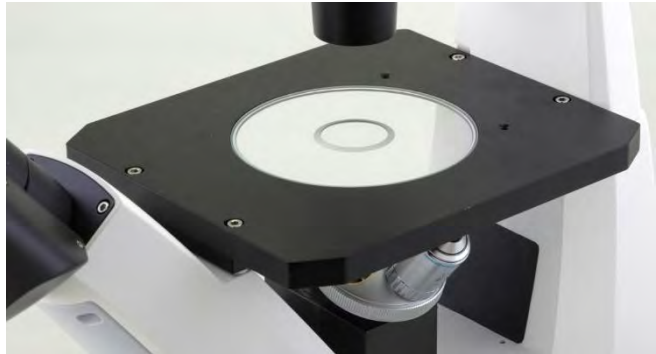
Butterfly binocular head, 360° rotatable, more convenient for users with different height.

3. Stage

Two types stage, applicable to samples of different sizes.



180mm*155mm mechanical stage



180mm*203mm fixed stage

4. Long working distance condenser



Long working distance condenser NA 0.32, WD=48mm

5. Camera adapter



Digital camera is located at the back of the microscope, which does not interfere with the user's operation.

6. Power supply

5-12V low voltage input, to ensure safe use.

Built-in LED illumination system which can be powered with power bank, laptop and vehicle power, ensures it being used anywhere and any condition



7. Objectives



New designed objectives for both bright field and phase contrast observation, not necessary to change objectives.

Application

BS-2009 Inverted microscope is used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. It can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken during the process. This microscope is widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

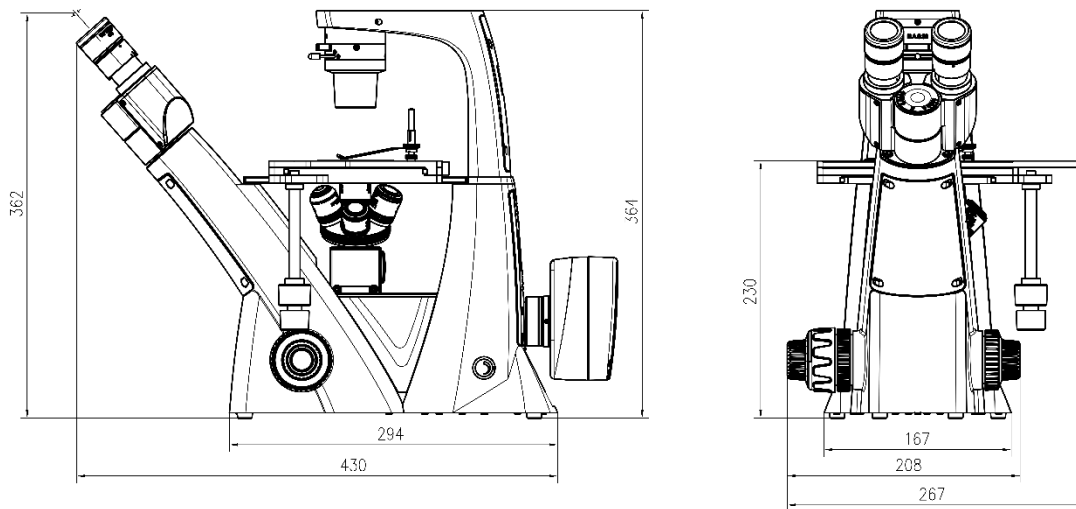
Specification

| Item | Specification | BS-2009 | |
|-----------------------|---|------------------------|---|
| Optical System | Infinite Optical System | ● | |
| Viewing Head | Inclined 45° trinocular tube, interpupillary distance: 48-75mm, splitting ratio: eyepiece: trinocular=70:30 | ● | |
| Eyepiece | High eyepoint wide field eyepiece WF10X/20mm, eyepiece tube diameter Φ23.2mm | ● | |
| Objective | Infinity Long Working Distance Plan Objectives | 4X/NA=0.11, WD=12.1mm | ○ |
| | | 10X/NA=0.25, WD=10.3mm | ● |
| | | 20X/NA=0.45, WD=5.8mm | ○ |
| | | 40X/NA=0.65, WD=5.1mm | ● |
| | Infinity Long Working Distance Plan Phase Contrast Objectives | 10X/NA=0.25, WD=10.3mm | ○ |
| | | 20X/NA=0.45, WD=5.8mm | ● |
| 40X/NA=0.65, WD=5.1mm | | ○ | |
| Nosepiece | Quadruple nosepiece | ● | |
| Centering Telescope | Centering telescope (Φ23.2mm) | ○ | |

| | | |
|---------------------|---|---|
| Phase Annular Plate | 10X phase annular plate | ○ |
| | 20X/40X phase annular plate, for both 20X and 40X | ● |
| Stage | Three-layer mechanical stage. Stage size: 180mm(X)*155mm(Y), moving range: 75mm*40mm. Scale: 0.1mm, round slide size: Φ110mm. | ● |
| | Fixed stage, stage size: 180mm*204mm. | ○ |
| | Glass holder, outer diameter Φ110mm, inner diameter Φ30mm | ● |
| | Drop-shaped metal holder, outer diameter Φ110mm, inner diameter Φ25mm | ○ |
| Focusing | Coaxial coarse and fine focusing adjustment, coarse stroke: 10mm, fine stroke per rotation: 0.2mm, fine division 2um. | ● |
| Condenser | Long working distance condenser, N.A.0.32. Working distance:48mm | ● |
| Illumination | 5W LED lamp, input voltage: 100V-240V | ● |
| Filter | Green filter (Φ21mm) | ● |
| | Blue filter (Φ21mm) | ○ |
| | Yellow filter (Φ21mm) | ○ |
| | Grey filter (Φ21mm) | ○ |
| C-mount | Built-in 0.65X C-mount adapter | ● |
| Packing | Packing size: 515mm*480mm*315mm, gross weight: 9kg, net weight: 7kg | ● |

Note: ● Standard Outfit, ○ Optional

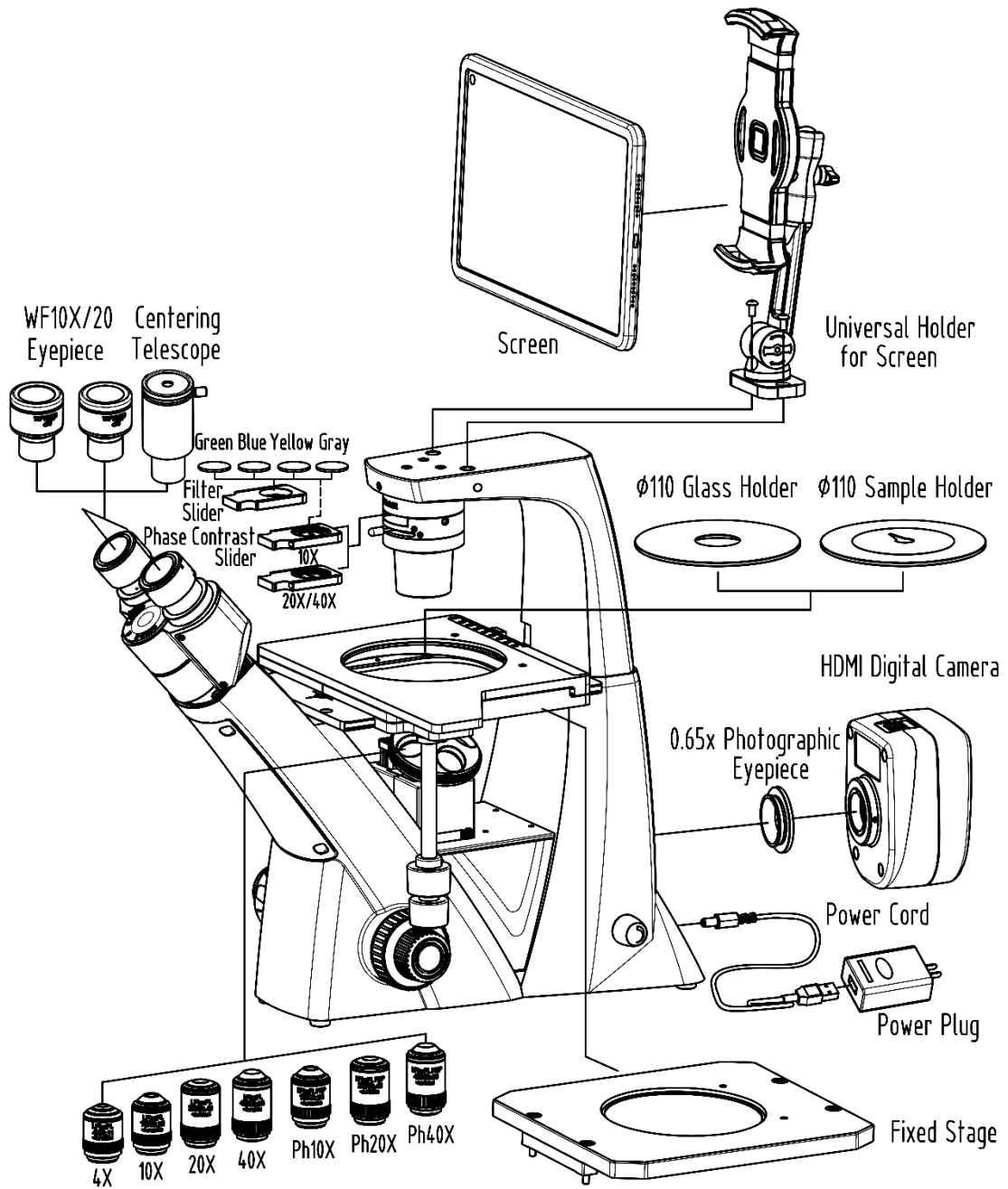
Dimension



BS-2009

Unit: mm

System Diagram



3. BS-2010 Biological Microscope



BS-2010D



BS-2010E



BS-2010F

Introduction

BS-2010 series biological microscopes are more comfortable and reliable operation with modern design. These microscopes are economical microscope with all basic features for educational use in elementary and middle school.

Features

1. More comfortable and reliable operation with modern design.
2. Affordable price with reliable performance, long working life.
3. Smart and occupy small space.

Applications

These microscopes are economical microscope with all basic features for educational use in elementary and middle schools.

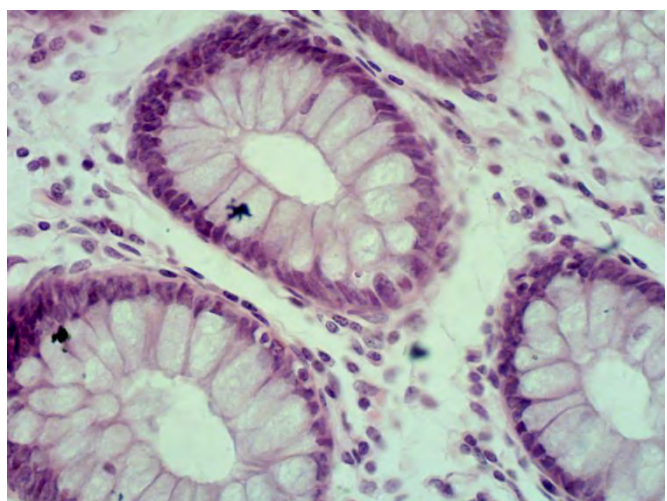
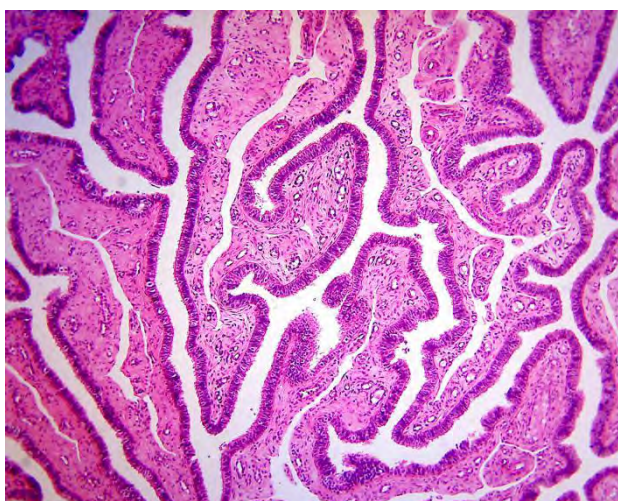
Specifications

| Item | Specification | BS-2010B | BS-2010C | BS-2010D | BS-2010E | BS-2010F |
|--------------|---|----------|----------|----------|----------|----------|
| Viewing Head | Monocular, Inclined at 45°, 360° Rotatable | • | • | • | | |
| | Sliding Binocular Head, Inclined at 45°, 360° Rotatable, interpupillary distance 55-75mm | | | | • | |
| | Sliding Trinocular Head, inclined at 45°, 360° Rotatable, interpupillary distance 55-75mm | | | | | • |

| | | | | | | |
|--------------|--|---|---|---|---|---|
| Eyepiece | WF10×/18mm | ● | ● | ● | ● | ● |
| | WF5×/20mm, WF16×/11mm, WF25×/8mm | ○ | ○ | ○ | ○ | ○ |
| | WF10×/18mm with Pointer | ○ | ○ | ○ | ○ | ○ |
| Nosepiece | Triple Nosepiece | ● | ● | ● | | |
| | Quadruple Nosepiece | | | | ● | ● |
| Objective | Achromatic Objective 4×, 10×, 40×(S) | ● | ● | ● | ● | ● |
| | Achromatic Objective 20×, 60× | ○ | ○ | ○ | ○ | ○ |
| | Achromatic Objective 100× | ○ | ○ | ○ | ● | ● |
| Stage | Plain Stage with Slide Clips 110×120mm | ● | | | | |
| | Plain Stage with Attachable Mechanical ruler 110×120mm/ 60×30mm | | ● | | | |
| | Double Layers Mechanical Stage 110×120mm/ 70×20mm | | | ● | ● | ● |
| Focusing | Coaxial Coarse and Fine Adjustment, Moving Range 10mm | ● | ● | ● | ● | ● |
| Condenser | Single Lens NA 0.65 with Iris Diaphragm | ● | | | | |
| | Abbe NA 1.2 with Iris Diaphragm & Blue Filter, Spiral Adjustment for Condenser | | ● | | | |
| | Abbe NA 1.2 with Iris Diaphragm & Blue Filter, Rack and Pinion Adjustment for Condenser | | | ● | ● | ● |
| Illumination | 1W LED Illumination, Brightness Adjustable | ● | ● | ● | ● | ● |
| | Mirror | ○ | ○ | ○ | ○ | ○ |
| Spare Parts | Dust Cover | ● | ● | ● | ● | ● |
| Package | Styrofoam & Carton, Dimension 28×20×40 cm, 4kg | ● | ● | ● | ● | ● |
| | Wooden Case & Carton, Aluminum Case & Carton | ○ | ○ | ○ | ○ | ○ |
| Power Supply | AC100-220V power adapter, microscope input voltage 5V | ● | ● | ● | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Images



4. BS-2010MD/BD Digital Microscope



BS-2010MD



BS-2010BD

Introduction

BS-2010MD/BD digital microscope feature a built-in 1.3MP Digital Camera and professional software offering high resolution and user friendly operation. This combination of microscope, digital imaging system and software is easy to operate and offers outstanding performance. It can preview, take photos, videos and do measurement. LED illumination saves energy and has long working life.

Feature

1. Built-in 1.3 Mega Pixel CMOS camera, vivid images and real color reproduction.
2. High definition images and videos, high frame rate.
3. Professional image analyze software supports Windows Vista / Win 7/8/10 32bit & 64 bit Operation System.
4. Support Multi-language (Arabic, Chinese, English, French, German, Japanese, Polish and etc.).
5. Compact and flexible, ideally suited for desktop, laboratory worktable.

Application

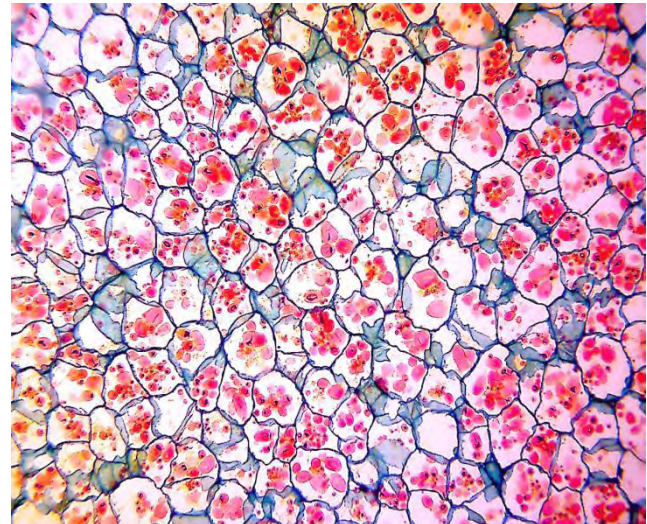
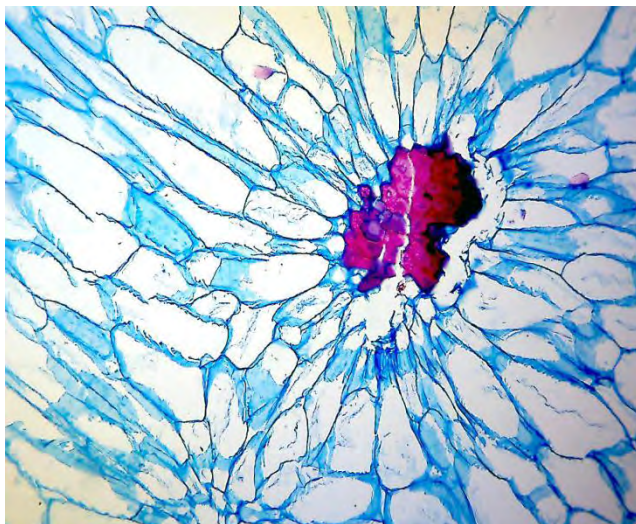
BS-2010MD/BD digital microscopes are primarily designed for school students to do image analysis and distant sharing. The microscopes also provide a superior cost effective solution for computer interactive laboratory, clinical environments and individuals as hobby etc.

Specification

| Item | Specification | BS-2010MD | BS-2010BD |
|---------------|--|-----------|-----------|
| Viewing Head | Monocular head, Inclined at 45°, 360° Rotatable | ● | |
| | Binocular head, Inclined at 45°, 360° Rotatable, 55-75mm | | ● |
| Camera System | Resolution: 1280×1024(1.3MP) | ● | ● |
| | Output: USB2.0 | ● | ● |
| | Operation System: Windows 2000/XP/VISTA/Win 7/8/10 | ● | ● |
| | Software: ScopelImage 9.0 | ● | ● |
| Eyepiece | Wide Field Eyepiece: WF10×/18mm | ● | ● |
| | WF5×/20mm, WF16×/11mm, WF25×/8mm | ○ | ○ |
| Objective | Achromatic Objective: 4×, 10×, 40×(S), 100×(S, Oil) | ● | ● |
| | Achromatic Objective: 20×, 60× | ○ | ○ |
| Stage | Double Layers Mechanical Stage: 110×120mm, Moving Range X-Y: 70×20mm | ● | ● |
| Condenser | Abbe NA 1.25 Condenser with Iris Diaphragm (Φ2-Φ28mm) | ● | ● |
| Focusing | Coaxial Coarse and Fine Adjustment, Moving Range 10mm | ● | ● |
| Illumination | 1W LED illumination, brightness adjustable | ● | ● |
| Accessories | Operation manual, dust cover, AC adapter and USB cable | ● | ● |
| Package | 1pc/carton, 28cm×22cm×40cm, 5kg | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Image



5. BS-2020 Biological microscope



BS-2020M



BS-2020B



BS-2020T

Introduction

BS-2020 series microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which saves energy, has long working life and also comfortable for observation. These microscopes are widely used in educational, academic, agricultural and study field. With a microscope adapter, a digital camera (or digital eyepiece) can be plug into the trinocular tube or the eyepiece tube. Built-in rechargeable battery is optional for outdoors operation or places that power supply is not stable.

Feature

1. Comfortable operation with updated and ergonomic design;
2. LED light illumination, save energy and long working life;
3. Compact and flexible, ideally suited for desktop, laboratory worktable.

Application

BS-2020 series microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department.

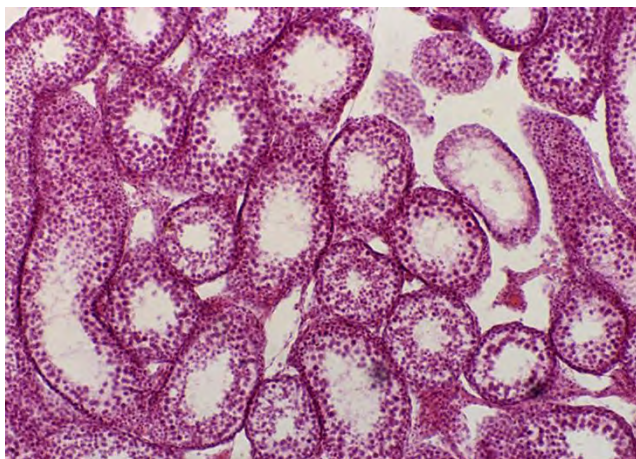
Specification

| Item | Specification | BS-2020M | BS-2020B | BS-2020T |
|--------------|--|----------|----------|----------|
| Viewing Head | Monocular Head, Inclined at 30°, 360° Rotatable | • | | |
| | Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm | | • | |
| | Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 55-75mm | | | • |
| Eyepiece | WF10×/18mm | • | • | • |
| | WF16×/11mm | ○ | ○ | ○ |

| | | | | |
|----------------------|---|---|---|---|
| | WF25×/8mm | ○ | ○ | ○ |
| Objective | Achromatic Objective 4×, 10×, 40×, 100×(Oil) | ● | ● | ● |
| | Achromatic Objective 20×, 60× | ○ | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | ● | ● | ● |
| Stage | Double Layer Mechanical Stage 132×142mm/ 75×40mm | ● | ● | ● |
| Focusing | Coaxial Coarse & Fine Adjustment, Fine Division 0.004mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.4mm per Rotation, Moving Range 24mm | ● | ● | ● |
| Condenser | Abbe NA 1.20 with Iris Diaphragm and Filter | ● | ● | ● |
| Illumination | 1W S-LED illumination, Brightness Adjustable | ● | ● | ● |
| | Halogen Lamp 6V/ 20W, Brightness Adjustable | ○ | ○ | ○ |
| Immersion oil | 5ml Immersion oil | ● | ● | ● |
| Optional Accessories | Phase Contrast Kit | ○ | ○ | ○ |
| | Dark Field Attachment | ○ | ○ | ○ |
| | Polarization Attachment | ○ | ○ | ○ |
| | Rechargeable battery | ○ | ○ | ○ |
| | 0.5×, 1× C-mount adapter (connect camera to the trinocular head) | | | ○ |
| | 0.37×, 0.5×, 0.75×, 1× reduction lens | ○ | ○ | ○ |
| Package | 1pc/carton, 39.5cm*26.5cm*50cm, 7kg | ● | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Images



6. BS-2020MD/BD Digital Microscope



BS-2020MD



BS-2020BD

Introduction

With 1.3MP colorful digital camera, competitive price and easy to operate features, the BS-2020MD/BD monocular/binocular digital microscopes are widely used in educational, academic, agricultural and study field. They are connected to a computer via a USB cable. The software is powerful and easy to operate, it can preview, take photos, videos and do measurement.

Feature

1. Built-in 1.3 Mega Pixel CMOS camera, vivid images and real color reproduction.
2. High definition images and videos, high frame rate.
3. Professional image analyze software supports Windows Vista / Win 7/8/10 32&64bit Operation System.
4. Support Multi-language (Arabic, Chinese, English, French, German, Japanese, Polish and etc.).
5. Compact and flexible, ideally suited for desktop, laboratory worktable.

Application

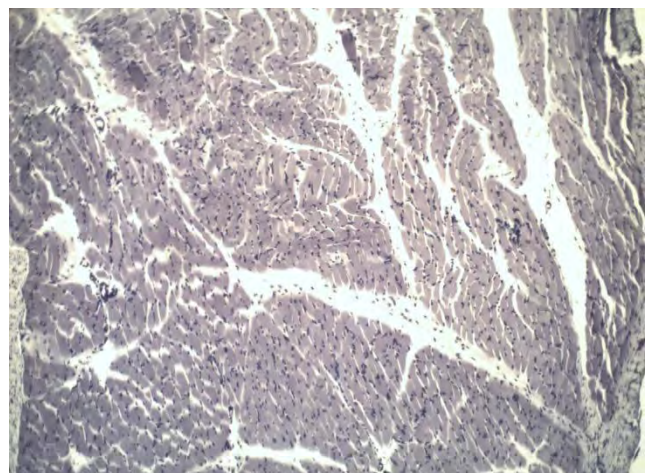
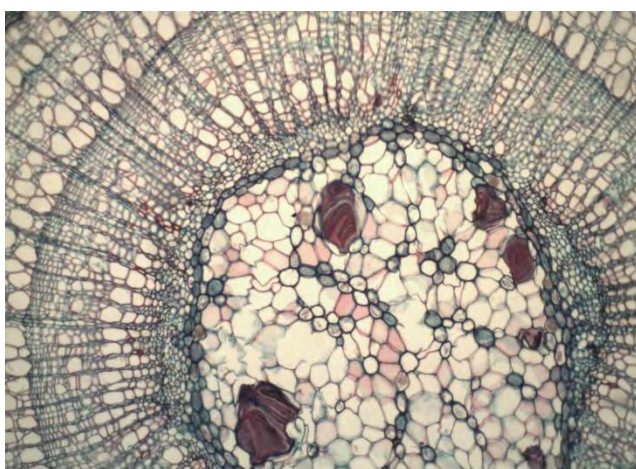
These microscopes are ideally suited for school biological education and medical analyses area. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department.

Specification

| Item | Specification | | BS-2020MD | BS-2020BD | |
|------------------------|---|------------------|-------------------------------|-----------|---|
| Viewing Head | Monocular Head with digital camera, Inclined at 30°, 360° Rotatable | | ● | | |
| | Seidentopf Binocular Head with digital camera, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm | | | ● | |
| | Camera System | Resolution | 1280×1024 (1.3Mega Pixel) | ● | ● |
| | | Output Mode | USB2.0 | ● | ● |
| | | Operation System | Window 2000/ XP/ Vista/ Win 7 | ● | ● |
| | | Software | ScopelImage 9.0 | ● | ● |
| Range of Viewing Field | | 90% | ● | ● | |
| Eyepiece | WF10×/18mm | | ● | ● | |
| | WF16×/11mm, WF25×/8mm | | ○ | ○ | |
| Nosepiece | Backward Quadruple Nosepiece | | ● | ● | |
| Objective | Achromatic Objective 4×, 10×, 40×, 100× | | ● | ● | |
| | Achromatic Objective 20×, 60× | | ○ | ○ | |
| Stage | Double Layers Mechanical Stage 132×142mm/ 75×40mm | | ● | ● | |
| Condenser | Abbe NA1.20 with Iris Diaphragm & Fliter | | ● | ● | |
| Focusing | Coaxial Coarse & Fine Adjustment, Fine Division 0.004mm, Coarse Stroke 32.7mm per Rotation, Fine Stroke 0.4mm per Rotation, Moving Range 24mm | | ● | ● | |
| Illumination | 1W S-LED illumination, Brightness Adjustable | | ● | ● | |
| | Halogen Lamp 6V/ 20W, Brightness Adjustable | | ○ | ○ | |
| Optional accessories | Phase Contrast Kit | | ○ | ○ | |
| | Dark-Field Attachment | | ○ | ○ | |
| | Polarization Attachment | | ○ | ○ | |
| | Rechargeable battery | | ○ | ○ | |
| Package | 1pcs/carton, 39.5cm*26.5cm*50cm, 8kg | | ● | ● | |

Note: ● Standard Outfit, ○ Optional

Sample Image



7. BS-2021 Biological Microscope



BS-2021B



BS-2021T

Introduction

BS-2021 series microscopes are economic, practical and easy to operate. These microscopes adopt infinite optical system and LED illumination, which has long working life and also comfortable for observation. These microscopes are widely used in educational, academic, veterinary, agricultural and study field. With an eyepiece adapter (reduction lens), a digital camera (or digital eyepiece) can be plug into the trinocular tube or the eyepiece tube. Built-in rechargeable battery is optional for outdoors operation or places that power supply is not stable.

Feature

1. Infinite Optical System.
2. Comfortable operation with updated and ergonomic design.
3. LED light illumination, save energy and long working life.
4. Compact and flexible, ideally suited for desktop, laboratory worktable.

Application

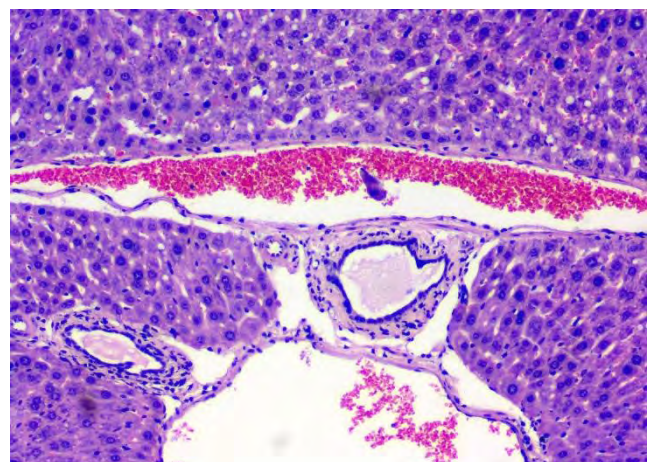
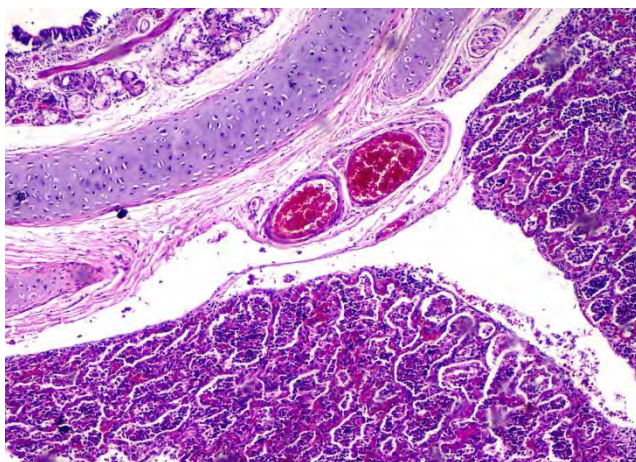
BS-2021 series microscopes are ideally suited for school biological education, veterinary and medical analyses area to observe all kinds of slides. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department.

Specification

| Item | Specification | BS-2021B | BS-2021T |
|----------------------|---|----------|----------|
| Optical System | Infinite Optical System | ● | ● |
| Viewing Head | Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm | ● | |
| | Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm | | ● |
| Eyepiece | WF10×/18mm | ● | ● |
| | P16×/11mm | ○ | ○ |
| | WF20×/9.5mm | ○ | ○ |
| | WF25×/6.5mm | ○ | ○ |
| Objective | Infinite Semi-Plan Achromatic Objectives 4×, 10×, 40×, 100× | ● | ● |
| | Infinite Plan Achromatic Objectives 2×, 4×, 10×, 20×, 40×, 60×, 100× | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | ● | ● |
| Stage | Double Layer Mechanical Stage 132×142mm/ 75×40mm | ● | ● |
| Focusing | Coaxial Coarse & Fine Adjustment, Fine Division 0.004mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.4mm per Rotation, Moving Range 24mm | ● | ● |
| Condenser | NA1.25 Abbe condenser with iris diaphragm and filter holder | ● | ● |
| Illumination | LED illumination, Brightness Adjustable | ● | ● |
| | Halogen Lamp 6V/ 20W, Brightness Adjustable | ○ | ○ |
| Immersion oil | 5ml Immersion oil | ● | ● |
| Optional Accessories | Phase Contrast Kit | ○ | ○ |
| | Dark Field Attachment (Dry/Oil) | ○ | ○ |
| | Polarization Attachment | ○ | ○ |
| | Rechargeable battery | ○ | ○ |
| | 0.5×, 1× C-mount adapter (connect camera to the trinocular head) | | ○ |
| | 0.37×, 0.5×, 0.75×, 1× reduction lens | ○ | ○ |
| Packing | 1pc/carton, 39.5cm*26.5cm*50cm, gross weight: 7kg | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Images



8. BS-2026 Biological Microscope



BS-2026M



BS-2026B

Introduction

BS-2026 series biological microscopes are economic and easy to operate with clear image. These microscopes adopt LED illumination and ergonomics design, comfortable for observation. These microscopes are widely used in educational, academic, agricultural and study field. Rechargeable battery compartment is standard for outdoors operation or places that power supply is not stable.

Feature

1. Comfortable operation with ergonomic design.
2. Rechargeable LED illumination system. The built-in rechargeable module in the base can be charged when the microscope is working. With long battery life, the microscopes can work when there is no power supply. Charging indicator on the right side of the base is clear to know the power supply working status.



Built-in rechargeable module



Charging indicator

3. Cord rest on back of the microscope. The power supply plug can be wrapped at the back of the microscope, it is helpful to clean the working environment and effective to avoid the accident when moving the microscope. Adopted USB power cable, it can be powered by computer(laptop) or portable power source, more convenient and flexible.



4. Compact and flexible, ideally suited for desktop, laboratory worktable.

Application

BS-2026 series microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in schools, clinics, hospitals, academic labs and scientific research department.

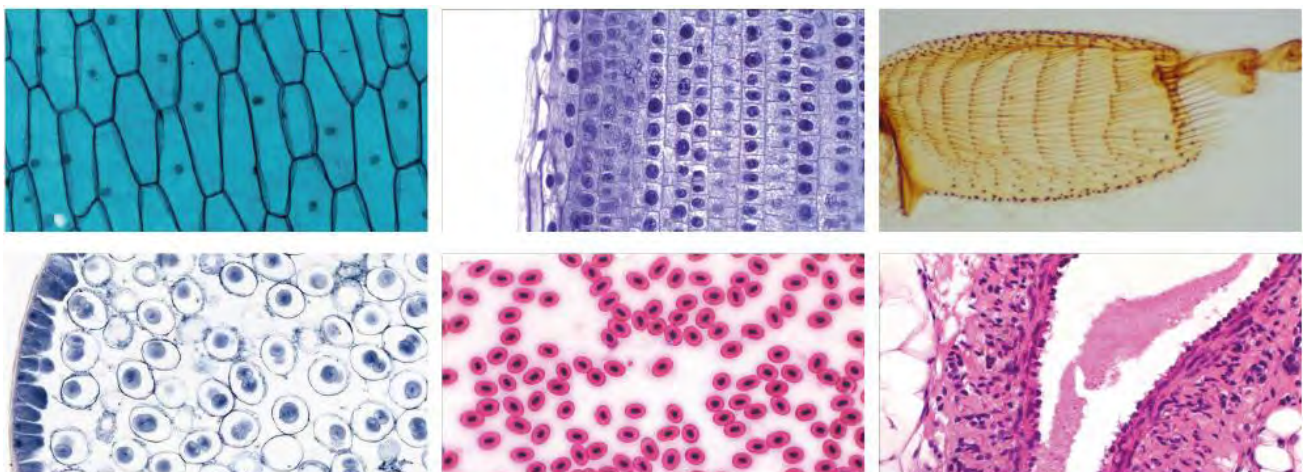
Specification

| Item | Specification | BS-2026M | BS-2026B | BS-2026T | |
|----------------|---|------------------------------|----------|----------|---|
| Optical System | Finite Optical System | ● | ● | ● | |
| Viewing Head | Monocular Head, Inclined at 30°, 360° Rotatable, with locking mechanism for eyepieces | ● | | | |
| | Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, with locking mechanism for eyepieces, right diopter adjustment: ±5, Interpupillary Distance 50-75mm | | ● | | |
| | Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, with locking mechanism for eyepieces, right diopter adjustment: ±5, Interpupillary Distance 50-75mm, Light Distribution Eyepiece: Trinocular=50:50 | | | ● | |
| Eyepiece | PL10×/18mm | ● | ● | ● | |
| | PL10×/18mm with pointer | ○ | ○ | ○ | |
| | PL10×/18mm with eyepiece micrometer | ○ | ○ | ○ | |
| Objective | Achromatic Objective | 4×/0.10, WD=21.50mm | ● | ● | ● |
| | | 10×/0.25, WD=6.26mm | ● | ● | ● |
| | | 40×(S)/0.65, WD=0.48mm | ● | ● | ● |
| | | 100×(S, Oil)/1.25, WD=0.15mm | ○ | ● | ● |
| | Plan Achromatic Objective | 4×/0.10, WD=15.09mm | ○ | ○ | ○ |
| | | 10×/0.25, WD=8.57mm | ○ | ○ | ○ |
| | | 20×(S)/0.40, WD=8.72mm | ○ | ○ | ○ |
| | | 40×(S)/0.65, WD=0.38mm | ○ | ○ | ○ |
| | 100×(S, Oil)/1.25, WD=0.09mm | ○ | ○ | ○ | |
| Nosepiece | Backward Quadruple Nosepiece | ● | ● | ● | |
| Stage | Single Layer Stage with two clips, Stage size 110×120mm | ● | ○ | ○ | |
| | Double Layers Mechanical Stage 115×125mm/ 70×30mm | ○ | ● | ● | |

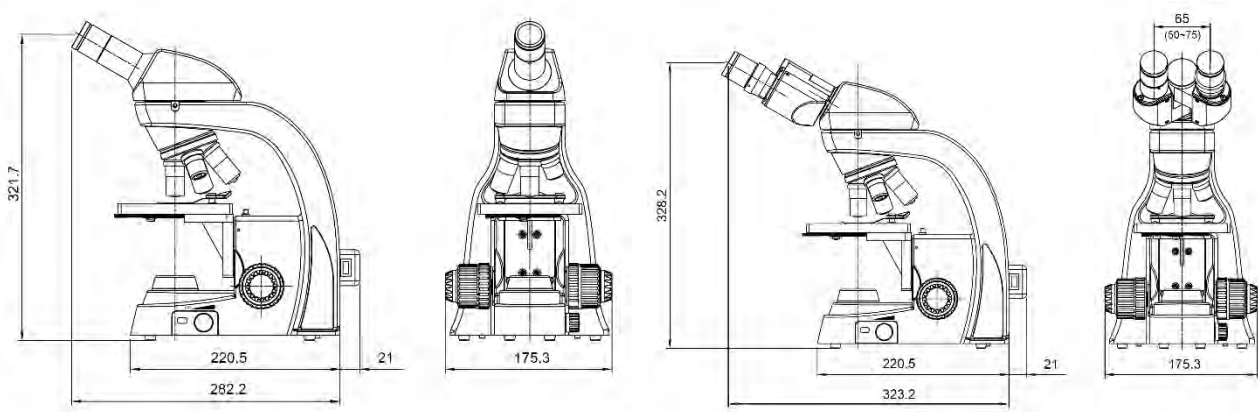
| | | | | |
|-----------------|--|---|---|---|
| Focusing | Low-position coarse and fine adjustment with stop and tighten structure, moving range: 13mm (combine with single layer stage), 7mm (combine with double layers mechanical stage); fine precision 0.002mm | ● | ● | ● |
| Condenser | NA 0.65 simple condenser with five-hole rotatable diaphragm | ● | ○ | ○ |
| | NA 1.25 Abbe condenser with iris diaphragm and filter holder | ○ | ● | ● |
| Illumination | 0.2W LED illumination (color temperature 5700-6500K), intensity adjustable; external power adapter (input 100V-240V, output 5V/1A), with rechargeable battery compartment (for 3pcs Ni-MH AA battery, battery not included) | ● | ● | ● |
| | 0.2W LED illumination (color temperature 5700-6500K), intensity adjustable; external power adapter (input 100V-240V, output 12V/3.3A), microscope body output of 12V/3.3A for built-in camera, with rechargeable battery compartment (for 3pcs Ni-MH AA battery, battery not included) | ○ | ○ | ○ |
| C-mount Adapter | 0.35× C-mount (Adjustable) | | | ○ |
| | 0.5× C-mount (Adjustable) | | | ○ |
| | 0.65× C-mount (Adjustable) | | | ○ |
| | 1× C-mount (Adjustable) | | | ○ |
| Packaging | 1pc/carton, 44cm*47cm*24cm, GW:6kgs, NW: 5kgs | ● | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Images



Dimension



Unit: mm

9. BS-2027 Biological Microscope



BS-2027M



BS-2027B



BS-2027T

Introduction

BS-2027 series biological microscopes come with elaborate appearance and reliable quality, beautiful and practical. These microscopes adopt LED illumination and ergonomics design, comfortable for observation.

The frame is lightweight but stable, easy to carry. BS-2027 series microscopes are compact and solid, innovative frame High rigid but small, specially designed for students. The easy operation and clear image inspire students' imagination and interesting of microscopy world, which is helpful to explore the mystery of life science. New generation of scientists are born from here!

These microscopes are widely used in educational, academic, agricultural and study field. Rechargeable battery compartment is optional for outdoors operation or places that power supply is not stable.

Feature

1. Comfortable operation with ergonomic design, easy to handle by students.
2. Rechargeable LED illumination system is optional, the microscopes can work when there is no power supply.
3. External power supply, safe and easy to maintain.
4. Compact and flexible, ideally suited for desktop, laboratory worktable.

Application

BS-2027 series microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in schools, clinics, hospitals, academic labs and scientific research department.

Specification

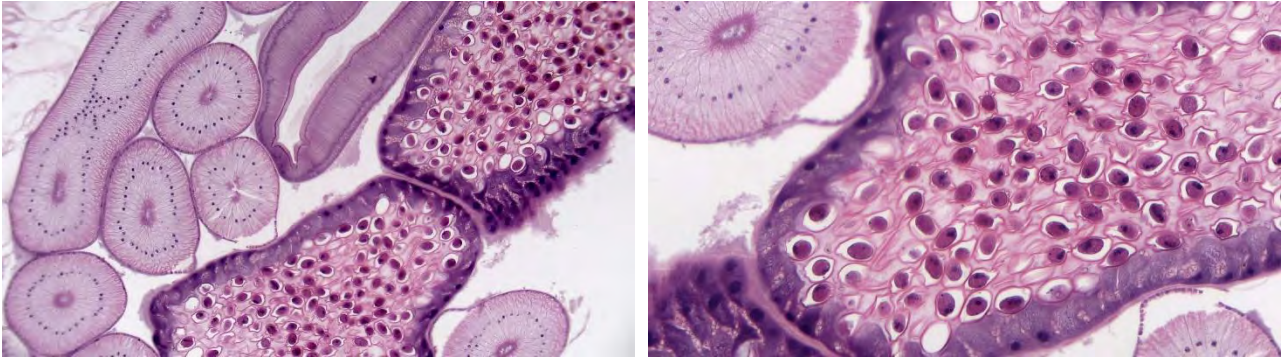
| Item | Specification | BS-2027M | BS-2027B | BS-2027T |
|----------------|-----------------------|----------|----------|----------|
| Optical System | Finite Optical System | • | • | • |

| | | | | | |
|-----------------|--|-----------------------------|---|---|---|
| Viewing Head | Monocular Head, Inclined at 30°, 360° Rotatable, with locking mechanism for eyepieces | | • | | |
| | Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, with locking mechanism for eyepieces, ±5 diopter adjustment on left tube, Interpupillary Distance 50-75mm | | | • | |
| | Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, with locking mechanism for eyepieces, ±5 diopter adjustment on left tube, Interpupillary Distance 50-75mm, Light Distribution Eyepiece: Trinocular=80:20 | | | | • |
| Eyepiece | Wide field plan eyepiece PL10×/18mm | | • | • | • |
| | Wide field plan eyepiece PL10×/18mm with pointer | | ○ | ○ | ○ |
| | Wide field plan eyepiece PL10×/18mm with eyepiece micrometer | | ○ | ○ | ○ |
| Objective | Achromatic Objective | 4×/0.10, WD=21.50mm | • | • | • |
| | | 10×/0.25, WD=6.26mm | • | • | • |
| | | 40×(S)/0.65, WD=0.48mm | • | • | • |
| | | 100×(S,Oil)/1.25, WD=0.15mm | • | • | • |
| | Plan Objective | 4×/0.10, WD=15.09mm | ○ | ○ | ○ |
| | | 10×/0.25, WD=8.57mm | ○ | ○ | ○ |
| | Achromatic Objective | 20×/0.40, WD=8.72mm | ○ | ○ | ○ |
| | | 40×(S)/0.65, WD=0.38mm | ○ | ○ | ○ |
| | | 100×(S,Oil)/1.25, WD=0.09mm | ○ | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | | • | • | • |
| Stage | 132mm×140mm double layers mechanical stage, moving range: 50mm×76mm, precision: 0.1mm. | | • | • | • |
| Focusing | Low-position coarse and fine adjustment with stop and tighten structure, moving range: 25mm, fine precision 0.002mm | | • | • | • |
| Condenser | NA 1.25 Abbe condenser with iris diaphragm and filter holder | | • | • | • |
| Illumination | 3W LED (cold color temperature or warm color temperature is optional, cold color temperature 4750K-5500K, warm color temperature 2850K-3250K), center presetting, intensity adjustable, external wide voltage AC adapter, 100V-240V_AC50/60Hz input, DC6V 2A output. | | • | • | • |
| | 3W LED (cold color temperature or warm color temperature is optional, cold color temperature 4750K-5500K, warm color temperature 2850K-3250K), center presetting, intensity adjustable, with rechargeable battery compartment(for 4pcs Ni-MH AA battery, battery not included), external wide voltage AC adapter, 100V-240V_AC50/60Hz input, DC6V 1A output. | | ○ | ○ | ○ |
| C-mount Adapter | 0.35× C-mount (Adjustable) | | | | ○ |
| | 0.5× C-mount (Adjustable) | | | | ○ |
| | 0.65× C-mount (Adjustable) | | | | ○ |
| | 1× C-mount (Adjustable) | | | | ○ |
| | Trinocular tube 23.2mm for digital eyepiece | | | | ○ |

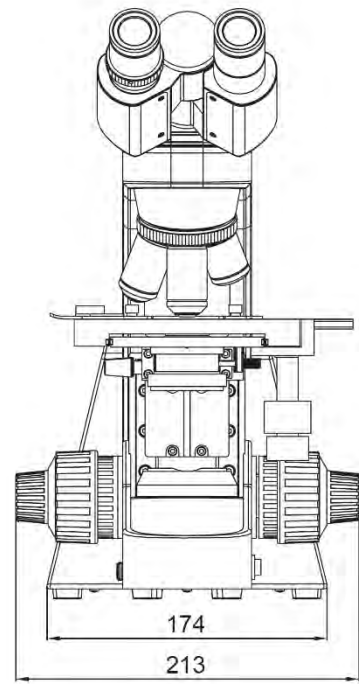
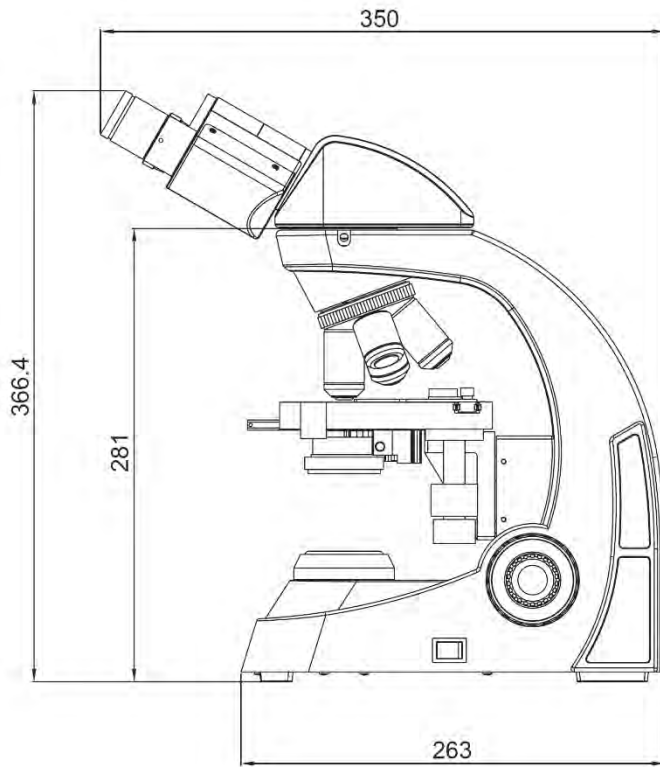
| | | | | |
|-----------|--|---|---|---|
| Packaging | 1pc/carton, 51cm*30cm*58cm, GW:10kgs, NW: 8kgs | • | • | • |
|-----------|--|---|---|---|

Note: ● Standard Outfit, ○ Optional

Sample Images



Dimension



Unit: mm

10. BS-2028 Biological Microscope

BS-2028M



BS-2028B



BS-2028T

Introduction

BS-2028 series microscopes are specially designed for college education, medical and laboratory study, supporting monocular, binocular, trinocular. They adopt beautiful structure and ergonomic design. With an innovative optical and structure design, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

Feature

1. Grace and new modeling



Drop-style integrated appearance design, looks elegant.

2. Viewing head



Brand new and humanized butterfly binocular head-tubes can be 360° rotated to raise observing height 44mm than normal tubes to be more convenient for users with different height.

3. Stability



Unique viewing head and integrative stand to ensure stability.

4. Power supply

5V-12V low voltage input to ensure safe use. Built-in LED illumination system which can be powered with power bank, laptop and vehicle power supply ensures being used anywhere and any condition.



5. Objectives



Unique and innovative low power light-reducing objective (Optional) ensures high power and low power objectives interconverted without light adjustment.

6. Storage bin



Humanized storage bin on the stand back makes moving and items storage more convenient.

7. Observing window



Observing window ensures objective magnification can be watched from back.

Application

BS-2028 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specification

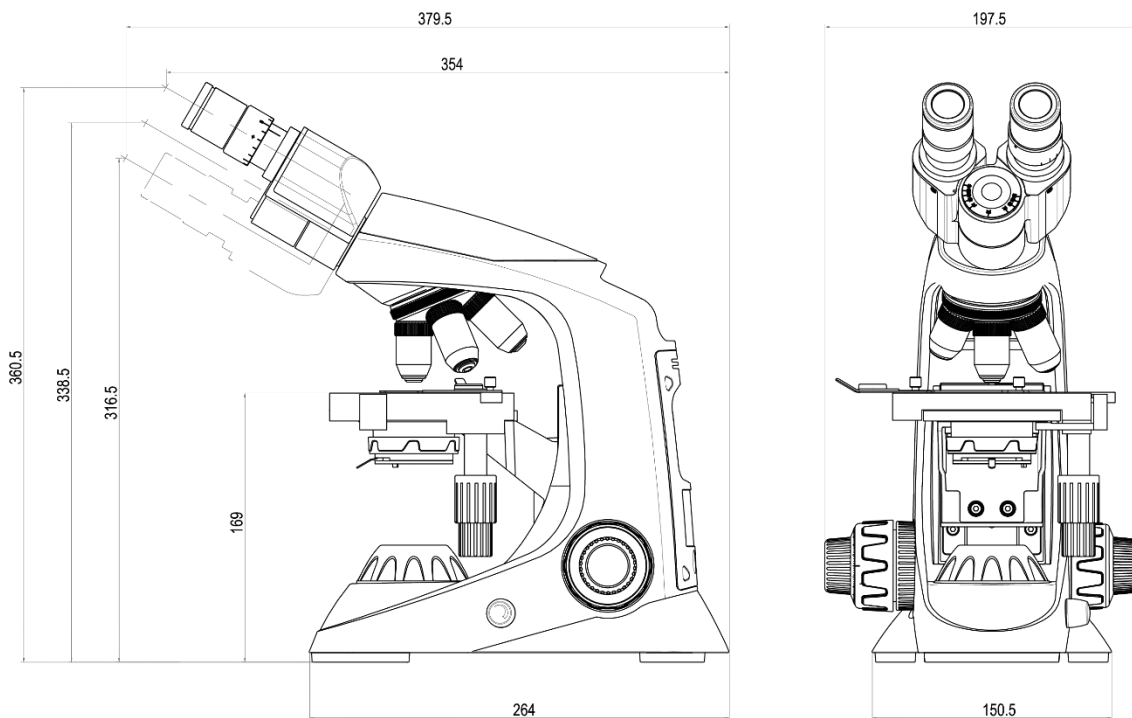
| Item | Specification | BS-2028M | BS-2028B | BS-2028T | |
|--------------------|---|------------------------|----------|----------|---|
| Optical System | Color Corrected Finite Optical System | ● | ● | ● | |
| Viewing Head | Inclined 30° monocular tube | ● | | | |
| | Inclined 30° binocular tube, 360° rotatable, interpupillary distance: 48-75mm | | ● | | |
| | Inclined 30° trinocular tube, 360° rotatable, interpupillary distance: 48-75mm, splitting ratio: eyepiece: trinocular=20:80 | | | ● | |
| Eyepiece | Wide field eyepiece WF10X/18mm (pointer is optional) | ● | ● | ● | |
| | Wide field eyepiece WF16X/13mm | ○ | ○ | ○ | |
| | Wide field eyepiece WF10X/18mm, with reticule 0.1mm | ○ | ○ | ○ | |
| | Wide field eyepiece WF10X/18mm, adjustable, with reticule 0.1mm | ○ | ○ | ○ | |
| Infinite Objective | Achromatic Objectives | 4X/ NA 0.10 | ● | ● | ● |
| | | 10X/ NA 0.25 | ● | ● | ● |
| | | 20X/ NA 0.40 | ○ | ○ | ○ |
| | | 40X/ NA 0.65 (S) | ● | ● | ● |
| | | 60X/ NA 0.80 (S) | ○ | ○ | ○ |
| | | (Oil) 100X/NA 1.25 (S) | ● | ● | ● |
| | Plan Achromatic Objectives | 4X/ NA 0.10 | ○ | ○ | ○ |
| | | 10X/ NA 0.25 | ○ | ○ | ○ |
| | | 40X/ NA 0.65 (S) | ○ | ○ | ○ |

| | | | | | |
|------------------|---|-------------------------|---|---|---|
| | | (Oil) 100X/ NA 1.25 (S) | ○ | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | | ● | ● | ● |
| Mechanical Stage | Stage size: 125mm*115mm. Travel: 35mm*75mm. | | ● | ● | ● |
| Condenser | Abbe condenser NA 1.25 with iris diaphragm | | ● | ● | ● |
| Focusing | Coaxial coarse and fine focusing knob, coarse focusing travel range: 25mm, fine division: 2μm | | ● | ● | ● |
| Illumination | 3W LED lamp | | ● | ● | ● |
| Dark Field Unit | Dark Field Ring, used for 4X-40X objectives | | ○ | ○ | ○ |
| C-mount | 0.5X C-mount adapter, adjustable focus | | ○ | ○ | ○ |
| | 1X C-mount adapter | | ○ | ○ | ○ |

Note: ●Standard Outfit, ○Optional

Packing Size: 435mm*380mm*275mm, Gross Weight: 5.8 kgs, Net Weight: 4.4 kgs

Dimension



Unit: mm

11. BS-2030 Biological Microscope



BS-2030B



BS-2030T



BS-2030BD

Introduction

With precision machining equipment and advanced alignment technology, BS-2030 series microscopes are classical biological microscopes. These microscopes are widely used in educational, academic, agricultural and study field. With a microscope adapter, a digital camera (or digital eyepiece) can be plug in to the trinocular tube or the eyepiece tube. Rechargeable battery (only for LED illumination) is optional for outdoors operation or places that power supply is not stable.

Feature

1. New machining facility and advanced alignment technology.
2. Comfortable operation with updated and ergonomic design;
3. Compact and flexible, ideally suited for desktop, laboratory worktable;
4. Interpupillary distance can be adjusted to fit for observation;
5. Support Windows Vista / Win 7 / Win8 / Win 10 / Mac Operation System. The software can preview, take photos and video, do image processing and measurement;
6. Support Multi-language (Arabic, Chinese, English, French, German, Japanese, Polish etc.).

Application

This binocular microscope is an ideal instrument in biological, histological, pathological field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

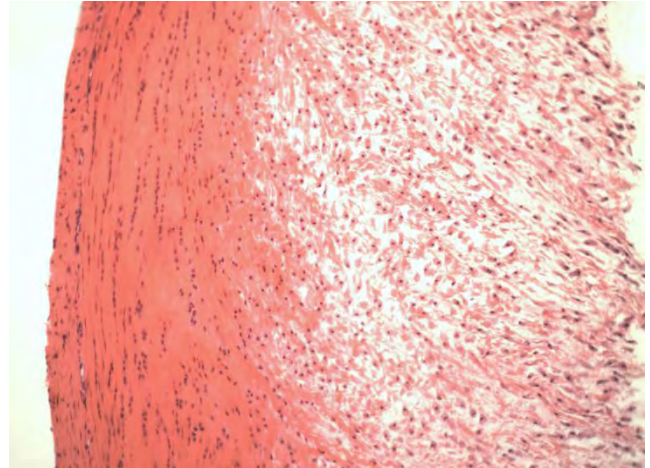
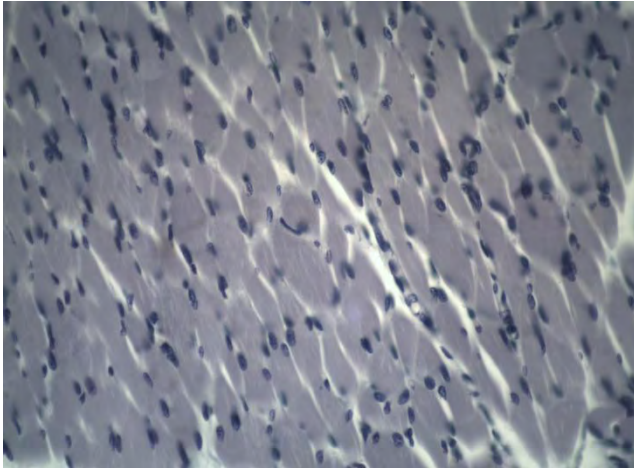
Specification

| Item | Specification | BS-2030M | BS-2030B | BS-2030T | BS-2030BD |
|------------------------|---|----------|----------|----------|-----------|
| Viewing Head | Monocular Head Inclined at 45°, 360° Rotatable | ● | | | |
| | Sliding Binocular Head Inclined at 45°, 360° Rotatable; interpupillary distance 55-75mm. | | ● | | |
| | Sliding Trinocular Head, inclined at 45° and 360° Rotatable, interpupillary distance 55-75mm | | | ● | |
| | Seidentopf Binocular Head Inclined at 45°, 360° Rotatable; interpupillary distance 48-75mm. | | ○ | | |
| | Sliding Binocular Head with 1.3MP digital camera, Inclined at 45°, 360° Rotatable; interpupillary distance 55-75mm. | | | | ● |
| | Anti-mould. | ○ | ○ | ○ | ○ |
| Eyepiece | Wide Field Eyepiece WF10×/ 18mm | ● | ● | ● | ● |
| | Wide Field Eyepiece WF16×/ 11mm | ○ | ○ | ○ | ○ |
| Nosepiece | Quadruple Nosepiece | ● | ● | ● | ● |
| | Quintuple Nosepiece | ○ | ○ | ○ | ○ |
| Objective | Achromatic Objective 4×, 10×, 40×, 100× | ● | ● | ● | ● |
| | Achromatic Objective 20×, 60× | ○ | ○ | ○ | ○ |
| | Semi-Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100× | ○ | ○ | ○ | ○ |
| | Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100× | ○ | ○ | ○ | ○ |
| Total magnifications | With 10x eyepiece: 40×, 100×, 400×, 1000× | ● | ● | ● | ● |
| | With 16x eyepiece: 64×, 160×, 640×, 1600× | ○ | ○ | ○ | ○ |
| Stage | Double Layer Mechanical Stage 140*140mm, Moving Range 75*50mm. Can hold two slides | ● | ● | ● | ● |
| Focus | Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 28mm | ● | ● | ● | ● |
| Condenser | Abbe NA 1.25 with Iris Diaphragm & Filter | ● | ● | ● | ● |
| Illumination | 1W S-LED Illumination, Brightness Adjustable | ● | ● | ● | ● |
| | 6V/20W Halogen light, Brightness Adjustable | ○ | ○ | ○ | ○ |
| | Plan-concave Mirror | ● | ● | ● | ● |
| Body / Energy | Firm Aluminum Body and built in power supply 110-240V | ● | ● | ● | ● |
| Supplied with | Dust cover, immersion oil and user manual | ● | ● | ● | ● |
| Polarization Set | Simple Polarization Set | ○ | ○ | ○ | ○ |
| Phase Contrast Kit | Simple phase contrast kit | ○ | ○ | ○ | ○ |
| | Sliding phase contrast kit | ○ | ○ | ○ | ○ |
| | Turret phase contrast kit | ○ | ○ | ○ | ○ |
| Dark Field Attachment | Dark Field Attachment (Dry) NA0.9 | ○ | ○ | ○ | ○ |
| | Dark Field Attachment (Oil) NA1.25-1.36 | ○ | ○ | ○ | ○ |
| Fluorescent Attachment | YX-2B Fluorescent Attachment | ○ | ○ | ○ | ○ |

| | | | | | |
|---------|--|---|---|---|---|
| Battery | Rechargeable battery (only for LED illumination) | ○ | ○ | ○ | ○ |
| Others | 0.5×, 1× C-mount adapter (connect camera to the trinocular head) | | | ○ | |
| | 0.37×, 0.5×, 0.75×, 1× reduction lens | ○ | ○ | ○ | ○ |
| Package | 1pc/carton, 33cm×28cm×44cm×, 7kg | ● | ● | ● | ● |

Note: ●Standard Outfit, ○ Optional

Sample Image



12. BS-2032 Biological Microscope



BS-2032

Introduction

Excellent optical system and new structure design, better image resolution and quality, best choice for teaching experiment, medical test and research.

Feature

1. Eyepiece

New high-point plan eyepiece PL10X/18mm. More comfortable, observe conveniently with glasses. Different kinds of micrometer and pointer for option to install.

2. Objectives

All objectives through particularly processing, great effective mold proof and long service time to ensure long-term clearly image.

| Item | Magnification | N.A. | Working distance (mm) | Conjugate distance (mm) |
|-----------------------|----------------|------|-----------------------|-------------------------|
| Achromatic Objectives | 4X | 0.10 | 21.50 | 195 |
| | 10X | 0.25 | 6.30 | 195 |
| | 40X (S) | 0.65 | 0.48 | 195 |
| | 100X (S) (Oil) | 1.25 | 0.15 | 195 |

| | | | | |
|-------------------------------------|----------------|------|-------|-----|
| Plan Achromatic Objectives | 4X | 0.10 | 17.91 | 195 |
| | 10X | 0.25 | 6.40 | 195 |
| | 40X (S) | 0.65 | 0.65 | 195 |
| | 100X (S) (Oil) | 1.25 | 0.16 | 195 |
| Infinity Plan Achromatic Objectives | 4X | 0.10 | 18.60 | ∞ |
| | 10X | 0.25 | 16.70 | ∞ |
| | 20X | 0.45 | 1.50 | ∞ |
| | 40X (S) | 0.65 | 0.72 | ∞ |
| | 100X (S) (Oil) | 1.25 | 0.18 | ∞ |

3. Viewing head



Gemel-type, 30° inclined, 360° rotatable.
Inter-pupillary range: 54-75mm.
Diopter adjustment: ±5.

4. Nosepiece



Reversed quadruple nosepiece (Quintuple for option).
Easy to install and operate objectives. High-precision manufacturing to ensure the system focusing.

5. Stage



Mechanical stage with low position coaxial regulating handles. Stage size: 140mm*132mm or 150mm*140mm. Moving range: 76mm*50mm. Precision: 0.1mm. Damping slice clip can place two slices. Stage with particular processing, effective corrosion-resistant.

6. Focus system



Coaxial coarse and fine adjustment. Low position design, comfortable operation. Focus range: 28mm. Focus precision: 0.002mm.

7. Illumination



Adopt variable voltage (100-240V), 6V/20W halogen bulb. With adjustable brightness too provide full and uniform illumination for various objectives. Option: ultra-high brightness single LED cold light source with long working life.

Application

BS-2032 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specification

| Item | Specification | BS-2032B | BS-2032T |
|----------------|---|----------|----------|
| Optical System | Color Corrected Optical System | ● | ● |
| Viewing Head | Inclined 30° binocular tube, 360° rotatable, diopter adjustable | ● | |
| | Inclined 30° trinocular tube, 360° rotatable, interpupillary distance: 50-75mm, bilateral diopter adjustment: ±5 diopters, splitting ratio: eyepiece: trinocular=80:20. Infinite. | | ● |
| Eyepiece | High eyepoint wide field plan eyepiece PL10X/18mm | ● | ● |
| | High eyepoint wide field plan eyepiece PL10X/18mm, with pointer | ○ | ○ |
| | High eyepoint wide field plan eyepiece PL10X/18mm, with micrometer | ○ | ○ |
| | High eyepoint wide field plan eyepiece PL10X/20mm | ○ | ○ |

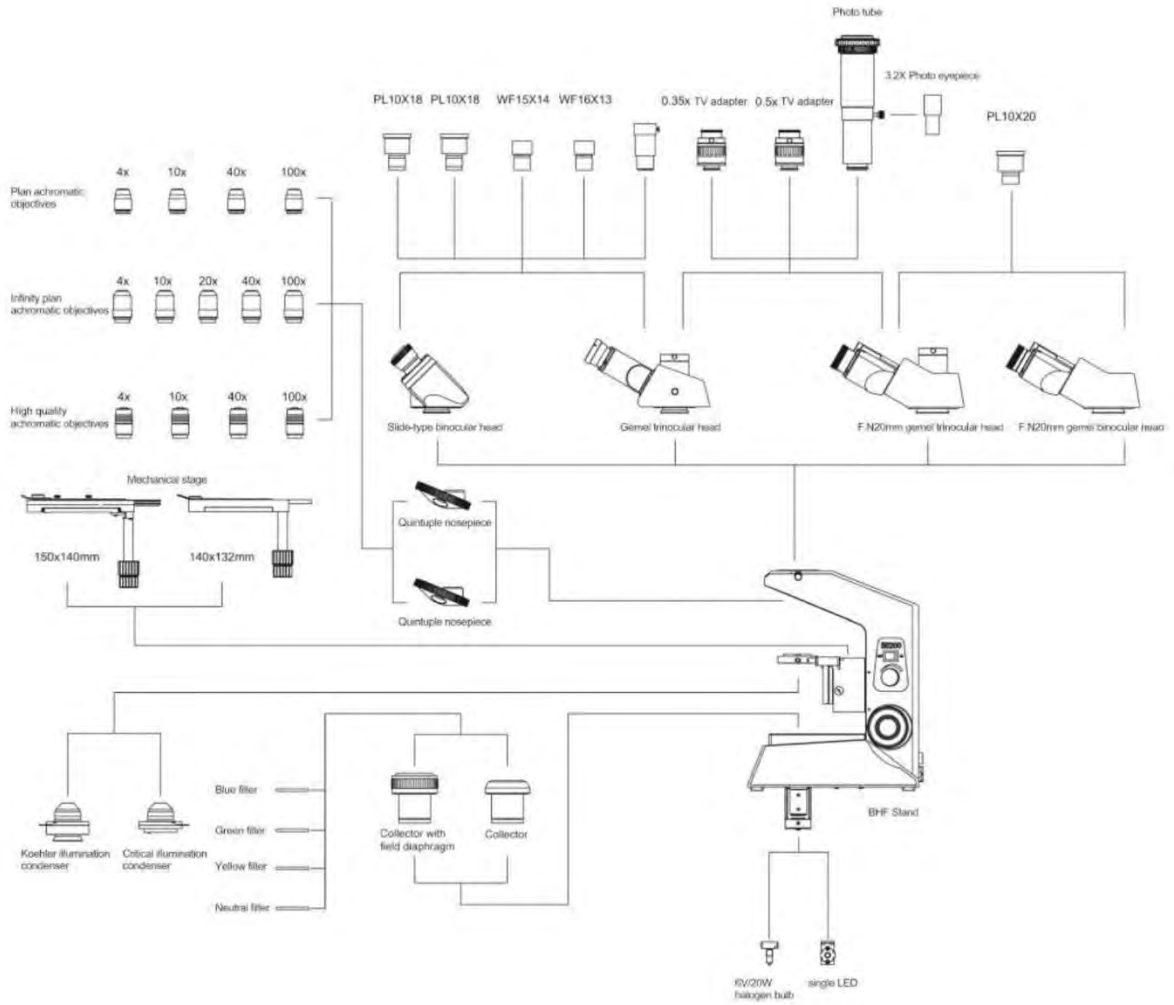
| | | | | |
|---|--|---|---|---|
| | High eyepoint wide field plan eyepiece PL10X/18mm, diopter adjustable | ○ | ○ | |
| | Wide field plan eyepiece PL15X/13mm | ○ | ○ | |
| | Wide field plan eyepiece PL20X/10mm | ○ | ○ | |
| Objectives | Achromatic Objectives | 4X/ NA 0.10, WD=21.50mm | ● | ● |
| | | 10X/ NA 0.25, WD=6.26mm | ● | ● |
| | | 40X (S)/ NA 0.65, WD=0.48mm | ● | ● |
| | | (Oil) 100X (S)/ NA 1.25, WD=0.15mm | ● | ● |
| | Finite Plan Achromatic Objectives | 4X/ NA 0.10, WD=15.09mm | ○ | ○ |
| | | 10X/NA 0.25, WD=8.57mm | ○ | ○ |
| | | 20X/ NA 0.40, WD=8.72mm | ○ | ○ |
| | | 40X (S)/ NA 0.65, WD=0.38mm | ○ | ○ |
| | | (Oil) 100X (S)/ NA 1.25, WD=0.09mm | ○ | ○ |
| | Infinite Plan Achromatic Objectives | 2X/ NA 0.06, WD=5.00mm (should work with forested glass on the condenser) | ○ | ○ |
| | | 4X/ NA 0.10, WD=15.00mm | ○ | ○ |
| | | 10X/ NA 0.25, WD=10.80mm | ○ | ○ |
| | | 20X/ NA 0.40, WD=1.50mm | ○ | ○ |
| | | 40X/ NA 0.65, WD=0.80mm | ○ | ○ |
| | | 60X/ NA 0.85, WD=0.30mm | ○ | ○ |
| | | 100X/ NA 1.25, WD=0.21mm | ○ | ○ |
| Infinite Plan Achromatic Positive Phase Contrast Objectives | 10X/ NA 0.25, WD=10.80mm | ○ | ○ | |
| | 20X/ NA 0.40, WD=1.50mm | ○ | ○ | |
| | 40X/ NA 0.65, WD=0.80mm | ○ | ○ | |
| | 100X/ NA 1.25, WD=0.21mm | ○ | ○ | |
| Microscope body, Nosepiece, Stage & Illumination | Low position coaxial coarse and fine focusing system, travel range: 28mm, fine precision: 0.002mm, with elastic adjustment device and upper limit device. Double-layer mechanical stage with center pre-set condenser bracket. Stage size: 140mm*132mm. Travel range: 76mm*50mm, precision: 0.1mm. Inward quadruple nosepiece. Adaptive wide voltage of 100V-240V with integrated power supply switch and continuously adjustable brightness to make the bulb less prone to be broken. Center pre-set 6V/20W halogen lamp (fixed Koehler illumination) with blue filter (Φ45) | ● | ● | |
| | Low position coaxial coarse and fine focusing system, travel range: 28mm, fine precision: 0.002mm, with elastic adjustment device and upper limit device. Double-layer mechanical stage with center pre-set condenser bracket. Stage size: 140mm*132mm. Travel range: 76mm*50mm, precision: 0.1mm. Inward quadruple nosepiece. Adaptive wide voltage of 100V-240V with integrated power supply switch and continuously adjustable brightness to make the bulb less prone to be broken. Center pre-set 3W single LED lamp (cold or warm color for option, cold color temperature: 4750K-5500K, warm color temperature: 2850K-3280K) (fixed Koehler illumination) | ○ | ○ | |

| | | | |
|--|---|---|---|
| | <p>Low position coaxial coarse and fine focusing system, travel range: 28mm, fine precision: 0.002mm, with elastic adjustment device and upper limit device. Double-layer mechanical stage with center pre-set condenser bracket. Stage size: 150mm*140mm. Travel range: 76mm*50mm, precision: 0.1mm (triangle guideway). Slice clips for two slices. Inward quadruple nosepiece. Adaptive wide voltage of 100V-240V with integrated power supply switch and continuously adjustable brightness to make the bulb less prone to be broken. Center pre-set 3W single LED lamp (cold or warm color for option, cold color temperature: 4750K-5500K, warm color temperature: 2850K-3280K) (fixed Koehler illumination)</p> | ○ | ○ |
| | <p>Low position coaxial coarse and fine focusing system, travel range: 28mm, fine precision: 0.002mm, with elastic adjustment device and upper limit device. Double-layer mechanical stage with center pre-set condenser bracket. Stage size: 140mm*132mm. Travel range: 76mm*50mm, precision: 0.1mm. Inward quintuple nosepiece. Adaptive wide voltage of 100V-240V with integrated power supply switch and continuously adjustable brightness to make the bulb less prone to be broken. Center pre-set 3W single LED lamp (cold or warm color for option, cold color temperature: 4750K-5500K, warm color temperature: 2850K-3280K) (fixed Koehler illumination)</p> | ○ | ○ |
| | <p>Low position coaxial coarse and fine focusing system, travel range: 28mm, fine precision: 0.002mm, with elastic adjustment device and upper limit device. Double-layer mechanical stage with center pre-set condenser bracket for infinite optical system. Stage size: 140mm*132mm. Travel range: 76mm*50mm, precision: 0.1mm. Inward quadruple nosepiece. Adaptive wide voltage of 100V-240V with integrated power supply switch and continuously adjustable brightness to make the bulb less prone to be broken. Center pre-set 3W single LED lamp (cold or warm color for option, cold color temperature: 4750K-5500K, warm color temperature: 2850K-3280K) (fixed Koehler illumination)</p> | ○ | ○ |
| | <p>Low position coaxial coarse and fine focusing system, travel range: 28mm, fine precision: 0.002mm, with elastic adjustment device and upper limit device. Double-layer mechanical stage with center pre-set condenser bracket for infinite optical system. Stage size: 150mm*140mm. Travel range: 76mm*50mm, precision: 0.1mm (triangle guideway). Slice clips for two slices. Inward quadruple nosepiece. Adaptive wide voltage of 100V-240V with integrated power supply switch and continuously adjustable brightness to make the bulb less prone to be broken. Center pre-set 3W single LED lamp (cold or warm color for option, cold color temperature: 4750K-5500K, warm color temperature: 2850K-3280K) (fixed Koehler illumination)</p> | ○ | ○ |
| | <p>Low position coaxial coarse and fine focusing system, travel range: 28mm, fine precision: 0.002mm, with elastic adjustment device and upper limit device. Double-layer mechanical stage with center pre-set condenser bracket for infinite optical system. Stage size: 140mm*132mm. Travel range: 76mm*50mm, precision: 0.1mm. Inward quintuple nosepiece. Adaptive wide voltage of 100V-240V with integrated power supply switch and continuously adjustable brightness to make the bulb less prone to be broken. Center pre-set 3W single LED lamp (cold or warm color for</p> | ○ | ○ |

| | | | |
|----------------------|--|---|---|
| | option, cold color temperature: 4750K-5500K, warm color temperature: 2850K-3280K) (fixed Koehler illumination), with field diaphragm. | | |
| Condenser | Abbe condenser NA 1.25 with interface for phase contrast and dark field plug-in plates, center pre-set, lifting with gears. (fixed Koehler illumination) | ● | ● |
| | Abbe condenser NA 1.25 with interface for phase contrast and dark field plug-in plates, center adjustable, lifting with gears. | ○ | ○ |
| Polarizer & Analyzer | Polarizer (Φ45) | ○ | ○ |
| | Analyzer | ○ | ○ |
| Reflector | Reflector | ○ | ○ |
| Filter | Forested glass accessories (used with 2X Infinity Plan Achromatic Objective) | ○ | ○ |
| | Blue filter (Φ45) | ○ | ○ |
| | Yellow filter (Φ45) | ○ | ○ |
| | Green filter (Φ45) | ○ | ○ |
| | Neutral filter (Φ45) | ○ | ○ |
| Dark Field Unit | Dark field unit, for 4X-40X objectives with Koehler illumination | ○ | ○ |
| Phase Contrast Unit | Phase contrast plug set, for 10X, 40X phase contrast objectives (finite) | ○ | ○ |
| | Phase contrast plug set, for 20X, 100X phase contrast objectives (finite) | ○ | ○ |
| | Phase contrast plug set, for 10X, 40X phase contrast objectives (infinite) | ○ | ○ |
| | Phase contrast plug set, for 20X, 100X phase contrast objectives (infinite) | ○ | ○ |
| Adapter | 0.35X C-mount adapter, focus adjustable | ○ | ○ |
| | 0.5X C-mount adapter, focus adjustable | ○ | ○ |
| | 0.65X C-mount adapter, focus adjustable | ○ | ○ |
| | 1X C-mount adapter, focus adjustable | ○ | ○ |
| | Digital eyepiece interface | ○ | ○ |
| Others | Centering telescope (Φ23.2) | ○ | ○ |
| | Micrometer for eyepieces, precision: 0.1mm | ○ | ○ |
| | Reticle for eyepieces | ○ | ○ |
| | Micrometer, precision: 0.01mm | ○ | ○ |
| | Internal hexagonal spanner M3 | ○ | ○ |
| | Internal hexagonal spanner M4 | ○ | ○ |
| Package | Paper box with pearl cotton | ● | ● |

Note: ●Standard Outfit, ○Optional

System Diagram



13. BS-2036 Biological Microscope



BS-2036A/B/C/D



BS-2036AT/BT/CT/DT

Introduction

BS-2036 series microscopes are middle level microscopes which are specially designed for college education, medical and laboratory study. They adopt high quality optical system, beautiful structure and ergonomic design. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

Feature

1. Excellent optical system

Excellent optical system, outstanding image quality with high resolution and definition.

2. Ergonomic design

Comfortable operating with ergonomic design. Back handle and observing hole convenient for carry and operation.

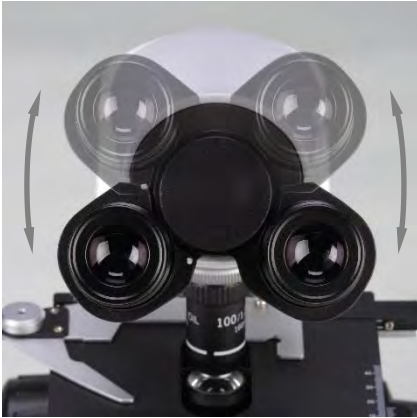
3. Unique aspheric illumination system

Unique aspheric illumination system, provide bright and comfortable lighting.

4. Color for optional

White color is standard, blue color is optional for lively environment and happy mood.

5. Viewing head



Brand new and humanized butterfly binocular head-tubes can be 360° rotated to raise observing height 44mm than normal tubes to be more convenient for users with different height.

6. Power supply



Built-in LED illumination system which can be powered with power bank, laptop and vehicle power supply ensures being used anywhere and any condition

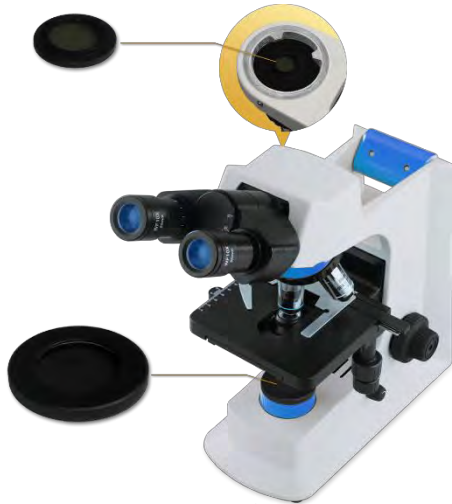
7. Various accessories for upgrading



Wire winding device convenient for carry and storage (optional).



Phase contrast unit, independent phase contrast unit (optional, apply to infinite optical system).



Simple polarizing unit with polarizer and analyzer (optional).



Dry DF Condenser



Oil DF Condenser

Dry / Oil Dark Field Condenser (optional).

Fluorescent attachment (optional, with LED or mercury light source)



BS-2036FB(LED) with UV/V/B/G Filter



BS-2036FB(LED) with B/G Filter



BS-2036FB



BS-2036F2B(LED)



BS-2036F2T(LED)

Application

BS-2036 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specification

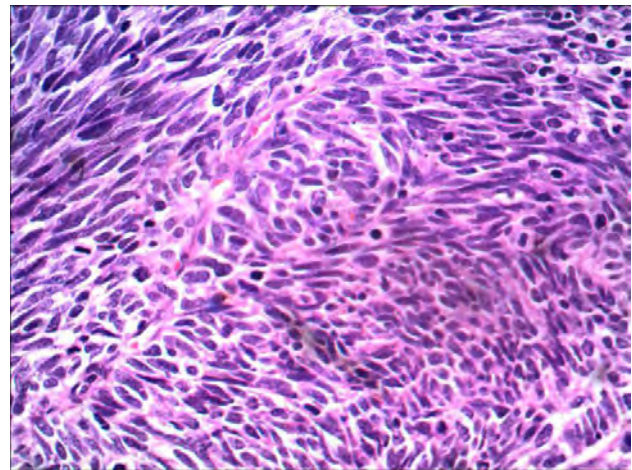
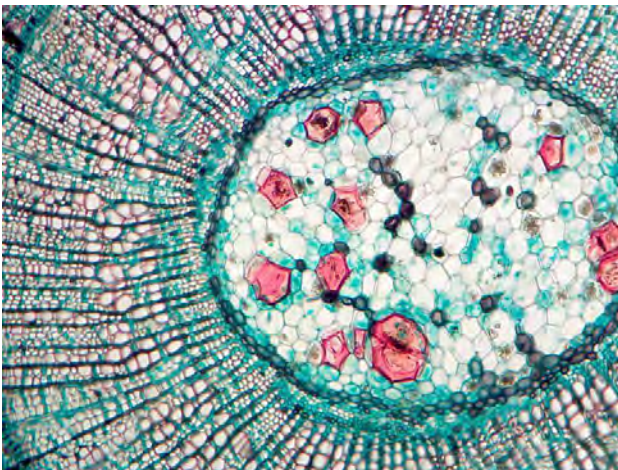
| Item | Specification | BS-2036A | BS-2036B | BS-2036C | BS-2036D |
|--|---|----------|----------|----------|----------|
| Optical System | Finite Optical System | ● | ● | | |
| | Infinite Optical System | | | ● | ● |
| Viewing Head | Inclined 30° binocular tube, 360° rotatable, interpupillary distance: 48-75mm | ● | ● | ● | ● |
| | Inclined 30° trinocular tube, 360° rotatable, interpupillary distance: 48-75mm, splitting ratio: eyepiece: trinocular=20:80 | ○ | ○ | ○ | ○ |
| Eyepiece | Wide field eyepiece WF10X/18mm | ● | | | |
| | High eyepoint wide field eyepiece WF10X/20mm | | ● | ● | ● |
| | WF16X/13mm | ○ | ○ | ○ | ○ |
| | Reticule eyepiece WF10X/18mm (0.1mm) | ○ | | | |
| | Reticule eyepiece WF10X/20mm (0.1mm) | | ○ | ○ | ○ |
| Achromatic Objective | 4X, 10X, 40X(S), 100X/NA 1.25 (Oil) (S) | ● | | | |
| | 20X, 60X (S) | ○ | | | |
| Plan Achromatic Objective | 4X, 10X, 40X/NA 0.65 (S), 100X/NA 1.25 (Oil) (S) | | ● | | |
| | 20X, 60X (S) | | ○ | | |
| Infinite Achromatic Objective | E-Plan 4X, 10X, 40X (S), 100X (Oil) (S) | | | ● | |
| | Plan 4X, 10X, 40X (S), 100X (Oil) (S) | | | | ● |
| | Plan 20X, 60X (S), 100X (Water) (S) | | | ○ | ○ |
| Infinity Plan Semi-Apochromatic Fluorescent Objectives | 4X/NA=0.16, WD=17.15mm | | | ○ | ○ |
| | 10X/NA=0.30, WD=7.68mm | | | ○ | ○ |
| | 20X/NA=0.50, WD=1.96mm | | | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm | | | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm (for TB, no correction of slide cover) | | | ○ | ○ |
| | (Oil) 100X/NA=1.3, WD=0.15mm | | | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | ● | ● | ● | ● |
| | Backward Quintuple Nosepiece | ○ | ○ | ○ | ○ |
| Focusing | Coaxial coarse & fine focusing knobs, travel range: 26mm, Scale:2um | ● | ● | ● | ● |
| Stage | Double layers mechanical stage, size: 145mm*140mm, cross travel 76mm*52mm, scale 0.1mm, two slide holders | ● | ● | ● | ● |
| | Rackless double layers mechanical stage, size: | ○ | ○ | ○ | ○ |

| | | | | | |
|---------------------------------|---|---|---|---|---|
| | 140mm*135mm, cross travel 75mm*35mm, scale 0.1mm, two slide holders | | | | |
| Condenser | Abbe condenser NA1.25 with iris diaphragm | ● | ● | ● | ● |
| Illumination | 3W LED lamp, brightness adjustable | ● | ● | ● | ● |
| | 12V/20W Halogen lamp, brightness adjustable | ○ | ○ | ○ | ○ |
| | 12V/30W Halogen lamp, brightness adjustable | ○ | ○ | ○ | ○ |
| Field Diaphragm | Field diaphragm | ○ | ○ | ○ | ○ |
| Dark Field Condenser | N.A.0.9 (Dry) Dark field condenser (for 10X-40X objectives) | ○ | ○ | ○ | ○ |
| | N.A.1.3 (Oil) Dark field condenser (for 100X objective) | ○ | ○ | ○ | ○ |
| Polarizing Set | Analyzer and Polarizer | ○ | ○ | ○ | ○ |
| Independent Phase Contrast Unit | Infinite Plan Phase Contrast 10X | | | ○ | ○ |
| | Infinite Plan Phase Contrast 20X | | | ○ | ○ |
| | Infinite Plan Phase Contrast 40X | | | ○ | ○ |
| | Infinite Plan Phase Contrast 100X | | | ○ | ○ |
| | Phase contrast slide | | | ○ | ○ |
| | Condenser | | | ○ | ○ |
| | Telescope | | | ○ | ○ |
| | Green filter | | | ○ | ○ |
| Fluorescence Attachment | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | | | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | | | ○ | ○ |
| | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | | | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | | | ○ | ○ |
| | B or G fluorescence unit, 5W-LED fluorescence lamp. | | | ○ | ○ |
| | Auramine long pass fluorescence unit, with 5W LED fluorescence lamp | | | ○ | ○ |
| | B/G fluorescence unit, 5W-LED fluorescence lamp. | | | ○ | ○ |
| Filter | Blue filter (Φ45) | ○ | ○ | ○ | ○ |
| | Green filter (Φ45) | ○ | ○ | ○ | ○ |
| | Yellow filter (Φ45) | ○ | ○ | ○ | ○ |
| Photo Adapter | Used to Connect Nikon/Canon/Sony/Olympus DSLR camera to the microscope | ○ | ○ | ○ | ○ |
| Video Adapter | 0.5X C-mount adapter, adjustable focus | ○ | ○ | ○ | ○ |
| | 0.75X C-mount adapter, adjustable focus | ○ | ○ | ○ | ○ |
| | 1X C-mount adapter, adjustable focus | ○ | ○ | ○ | ○ |

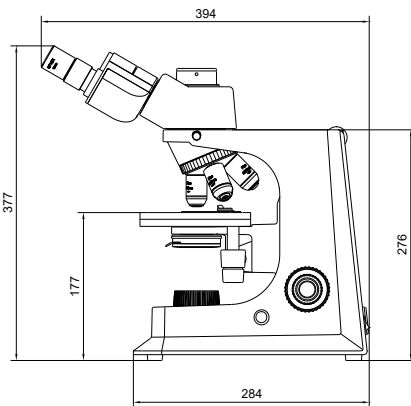
| | | | | | |
|----------------------|--|---|---|---|---|
| | Trinocular digital eyepiece interface | ○ | ○ | ○ | ○ |
| Mirror | Reflect Mirror | ○ | ○ | ○ | ○ |
| Cable Winding Device | Used to wind cable on back of the microscope | ○ | ○ | ○ | ○ |
| Rechargeable Battery | 3pcs AA rechargeable Nickel-metal hydride battery | ○ | ○ | ○ | ○ |
| Package | 1pc/carton, 42cm*28cm*45cm, Gross Weight 8kg, Net Weight 6.5kg | ○ | ○ | ○ | ○ |

Note: ●Standard Outfit, ○Optional

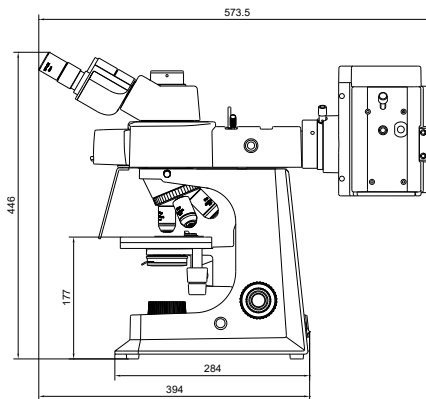
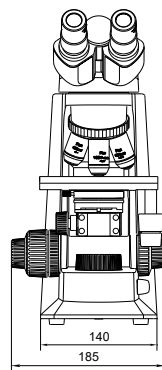
Sample Images



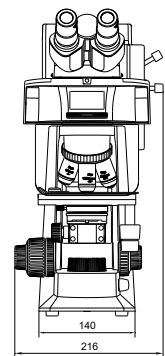
Dimension



BS-2036AT/BT/CT/DT



BS-2036FT



Unit: mm

14. BS-2036F(LED) Fluorescent Biological Microscope



BS-2036FB(LED)



BS-2036FT(LED)

Introduction

BS-2036F(LED) Series LED fluorescence microscopes are newly developed microscopes, the microscopes use LED as the light source, the life span of the LED lamp is much longer than mercury lamp, the performance is also better. It has 6 turret positions for filter cubes, more filter cubes can be used without change the blocks.

Features

1. Excellent fluorescent image with infinite optical system.
2. LED illumination with 50,000 hours life span.
3. Convenient to use, no need warm-up.
4. No need for cooling due to LED cold light source.
5. 6 positions for filter cubes.

Application

BS-2036F(LED) series LED Fluorescence microscopes are used to study the absorbing, transportation, chemicals distribution and positioning in cells. They are widely used in disease examination, immune diagnosis and life science areas.

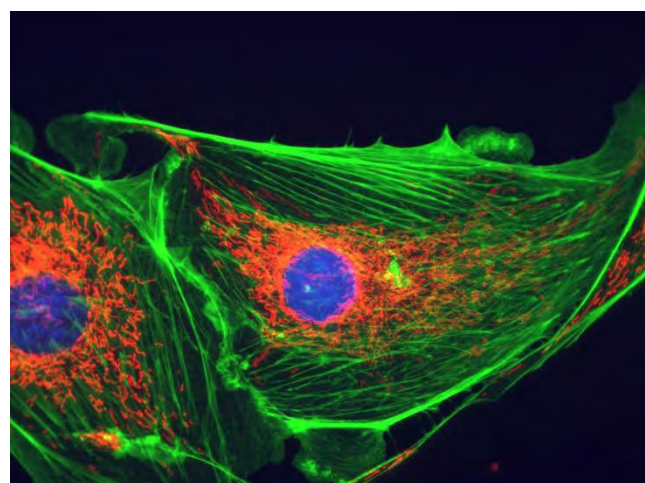
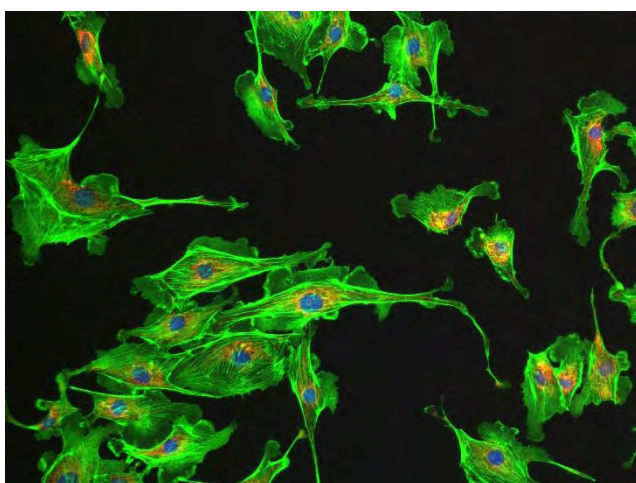
Specifications

| Item | Specification | BS-2036 FB(LED) | BS-2036 FT(LED) |
|----------------|---|--------------------|--------------------|
| Optical System | Infinite Optical System | • | • |
| Viewing Head | Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 50-75mm | • | |
| | Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 50-75mm | | • |
| | Seidentopf Binocular/Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, | ○ | ○ |

| | | | | | | |
|--------------------------|--|------------|-----------------|----------------|---|---|
| | Interpupillary 48-75mm | | | | | |
| Eyepiece | WF10×/20mm | | | | ● | ● |
| | WF16×/13mm | | | | ○ | ○ |
| | Reticule Eyepiece WF10×/20mm (0.1mm) | | | | ○ | ○ |
| Objective | Infinite E-Plan Achromatic Objective 4×, 10×, 40×, 100×(Oil) | | | | ● | ● |
| | Infinite Plan Achromatic Objective 4×, 10×, 20×, 40× (S), 60× (S), 100× (Oil) (S) | | | | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | | | | ● | ● |
| | Backward Quintuple Nosepiece | | | | ○ | ○ |
| Focusing | Coaxial Coarse & Fine Focusing knobs, Travel Range: 26mm, Scale:2um | | | | ● | ● |
| Stage | Stage Size: 145×140mm, Cross Travel 76×52mm, Two Slide Holder | | | | ● | ● |
| | Rackless Double Layers Mechanical Stage, Size: 182×140mm, Cross Travel 77×33mm, Two Slide Holder | | | | ○ | ○ |
| Condenser | Abbe Condenser NA1.25 with Iris Diaphragm | | | | ● | ● |
| Transmitted Illumination | 12V/20W Halogen Lamp, Brightness Adjustable | | | | ● | ● |
| | 12V/30W Halogen Lamp, Brightness Adjustable | | | | ○ | ○ |
| | 3W-LED Illumination Systems (non-rechargeable), Brightness Adjustable | | | | ○ | ○ |
| | 0.3W-LED Illumination Systems (Rechargeable), Brightness Adjustable | | | | ○ | ○ |
| Optional Accessories | Field Diaphragm, Photo adapters(for DSLR cameras), Video adapters(1X, 0.5X), Polarization set, Phase contrast kit, filters, mirror, Cable Winding Device | | | | ○ | ○ |
| Reflected Light Source | | Excitation | Dichroic Mirror | Barrier Filter | | |
| | Blue excitation | 420-490 | 505 | 520 | ● | ● |
| | Green excitation | 500-550 | 575 | 590 | ● | ● |
| | Ultraviolet Excitation | 330-380 | 400 | 435 | ○ | ○ |
| | Violet Excitation | 380-420 | 430 | 460 | ○ | ○ |
| Fluorescent Lamp | 3W LED Lamp | | | | ● | ● |
| Package | 42cm*28cm*45cm, 40cm*20cm*40cm, 12kg | | | | ● | ● |

Note: ●Standard Outfit, ○Optional

Sample Images



15. BS-2036F2(LED) LED Fluorescent Biological Microscope



BS-2036F2B (LED)



BS-2036F2T (LED)

Introduction

BS-2036F2(LED) Series LED fluorescence microscopes are newly developed microscopes, the microscopes use LED as the light source, the life span of the LED lamp is much longer than mercury lamp, the performance is also better. It has 2 positions for filter cubes, the fluorescent light source can be automatically changed after you change the fluorescent filter.

Features

1. Excellent fluorescent image with infinite optical system.
2. LED illumination with 50,000 hours life span.
3. Convenient to use, no need warm-up.
4. No need for cooling due to LED cold light source.
5. 2 positions for filter cubes, compact and take small space.

Application

BS-2036F2(LED) series LED Fluorescence microscopes are used to study the absorbing, transportation, chemicals distribution and positioning in cells. They are widely used in disease examination, immune diagnosis and life science areas in Medical colleges, universities, hospitals and clinics.

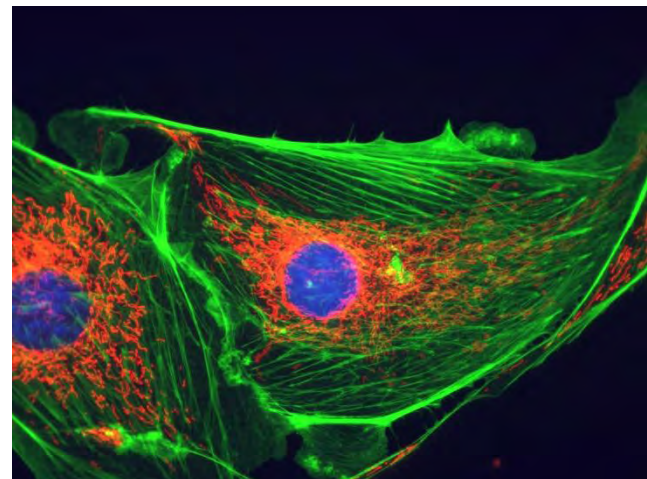
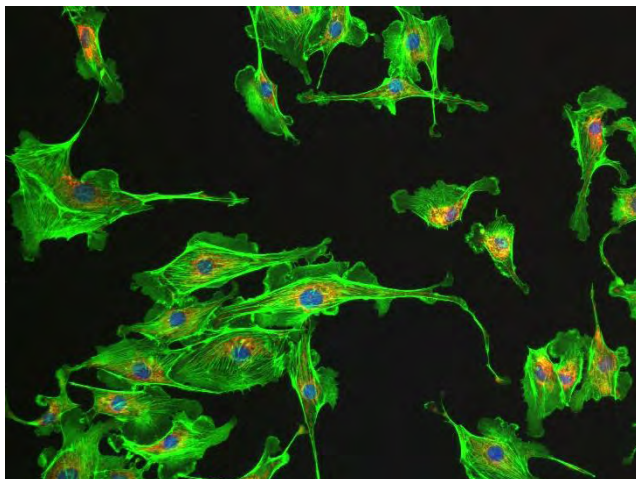
Specifications

| Item | Specification | BS-2036 F2B(LED) | BS-2036 F2T(LED) |
|----------------|---|------------------|------------------|
| Optical System | Infinite Optical System | • | • |
| Viewing Head | Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm | • | |
| | Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm, Light Distribution 20:80 | | • |

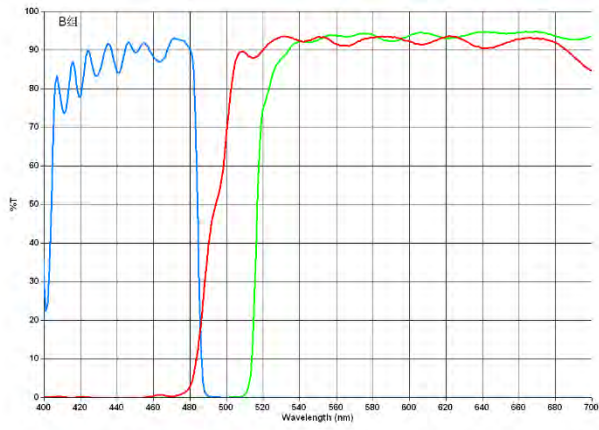
| | | | | | | |
|--------------------------|---|------------|-----------------|----------------|---|---|
| Eyepiece | WF10×/20mm | | | | ● | ● |
| | WF16×/13mm | | | | ○ | ○ |
| | Reticule Eyepiece WF10×/20mm (0.1mm) | | | | ○ | ○ |
| Objective | Infinite Plan Achromatic Objective 4×, 10×, 40×, 100×(Oil) | | | | ● | ● |
| | Infinite Plan Achromatic Objective 20×, 60× (S), 100× (Dry, S) | | | | ○ | ○ |
| | Infinite UPlan fluorescent objective 10×, 20×, 40×, 100× | | | | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | | | | ● | ● |
| | Backward Quintuple Nosepiece | | | | ○ | ○ |
| Focusing | Coaxial Coarse & Fine Focusing knobs, Travel Range: 26mm, Scale:2um | | | | ● | ● |
| Stage | Stage Size: 145×140mm, Cross Travel 76×52mm, Scale0.1mm, Two Slide Holder | | | | ● | ● |
| | Rackless Double Layers Mechanical Stage, Size: 140×135mm, Cross Travel | | | | ○ | ○ |
| | 75×35mm, Scale0.1mm, Two Slide Holder | | | | ○ | ○ |
| Condenser | Abbe Condenser NA1.25 with Iris Diaphragm | | | | ● | ● |
| Transmitted Illumination | 3W-LED Illumination, Brightness Adjustable | | | | ● | ● |
| | 12V/20W Halogen Lamp, Brightness Adjustable | | | | ○ | ○ |
| | 12V/30W Halogen Lamp, Brightness Adjustable | | | | ○ | ○ |
| Fluorescence Attachment | Epi fluorescence unit (2 positions for Uv /V/B/G fluorescent filters), 5W-LED fluorescence lamp | | | | ● | ● |
| Fluorescent filters | | Excitation | Dichroic Mirror | Barrier Filter | | |
| | Blue excitation | 420-490 | 505 | 520 | ● | ● |
| | Green excitation | 500-550 | 575 | 590 | ● | ● |
| | Ultraviolet Excitation | 330-380 | 400 | 435 | ○ | ○ |
| | Violet Excitation | 380-420 | 430 | 460 | ○ | ○ |
| Filter | Blue /Green /Yellow | | | | ○ | ○ |
| Optional Accessories | Field Diaphragm, Photo adapters(for DSLR cameras), Video adapters(1X, 0.5X), Polarization set, Phase contrast kit, mirror, Cable Winding Device | | | | ○ | ○ |
| Package | 42cm*28cm*45cm, 40cm*20cm*40cm, 12kg | | | | ● | ● |

Note: ●Standard Outfit, ○Optional

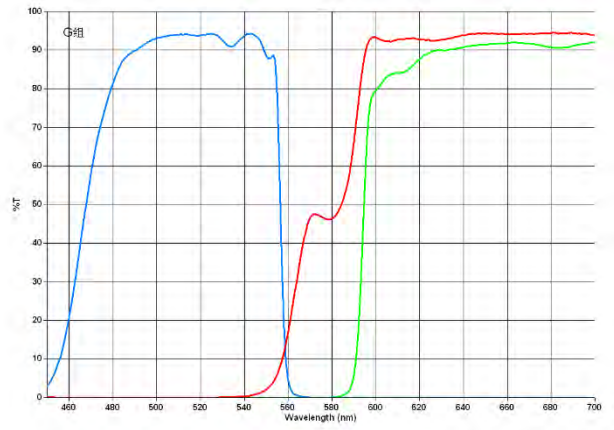
Sample Images



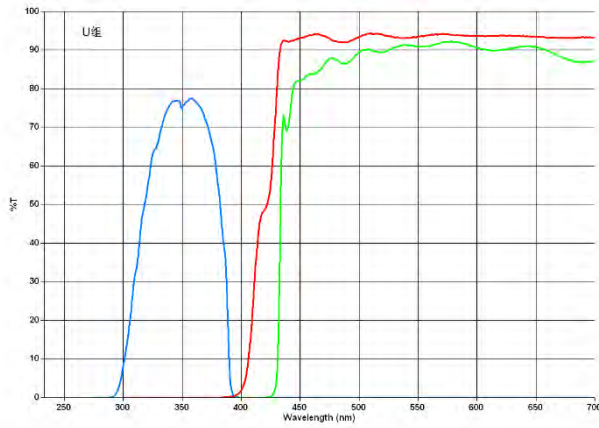
Fluorescent Filters



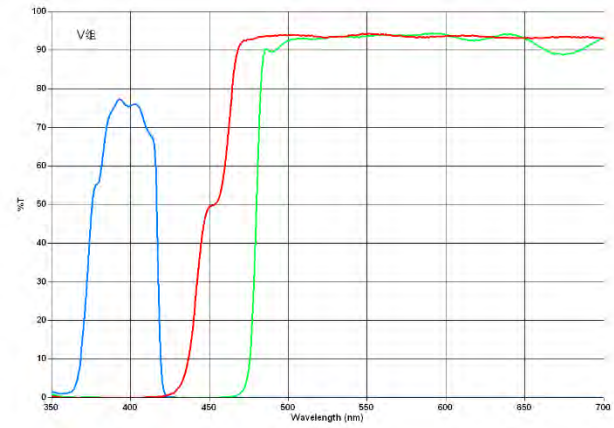
Blue



Green



UV



V

16. BS-2038 Series Biological Microscope



BS-2038B1/B2



BS-2038T1/T2

Introduction

BS-2038 series microscopes are specially designed for college education, medical and laboratory study. They adopt Infinite optical system, beautiful structure and ergonomic design. With an innovative optical and structure design, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

Feature

1. Perfect optical system

Excellent infinite optical system with high resolution and perfect definition. High resolution and perfect definition from infinity correct optical system. 100X water objective is available for convenient viewing.

2. Perfect ergonomics design

Comfortable operating with ergonomic design. Low position operation, convenient for long-term using. New wound device for cable, easy to move and keeping. The changing of objectives can be watched by back side through the back watching window.



3. Perfect appearance design

Drop-style integrated appearance design, looks elegant.

4. Viewing head



Brand new and humanized butterfly binocular head-tubes can be 360° rotated to raise observing height 44mm than normal tubes to be more convenient for users with different height.

5. Various accessories for upgrading



Wire Winding Device



Rackless (Integrated) Stage



100× Water objective



Simple polarizing unit
Polarizer & analyzer



Dark filed unit available
for 4×- 60× objective

Application

BS-2038 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specification

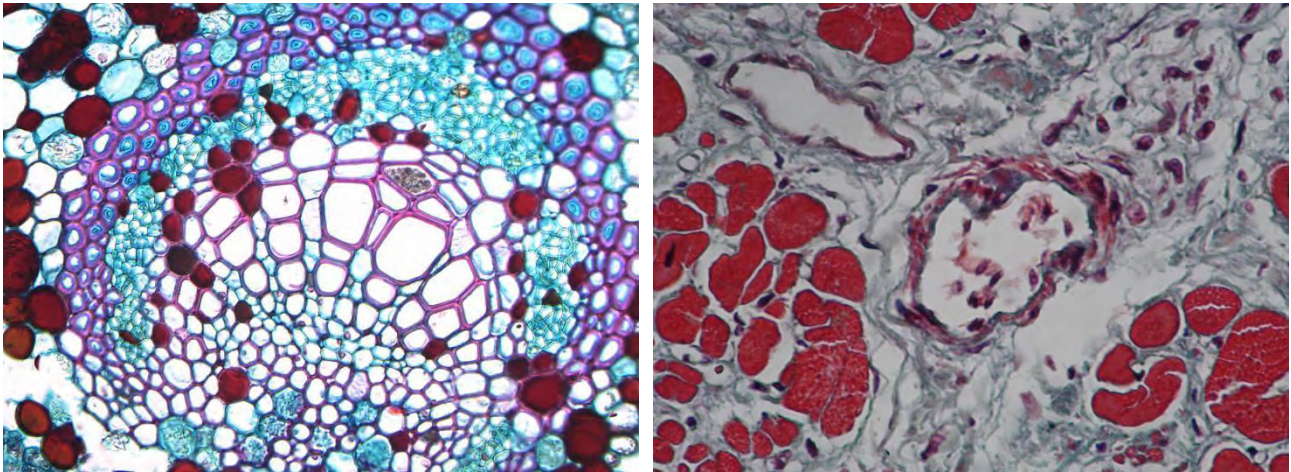
| Item | Specification | BS-2038B1 | BS-2038B2 | |
|--------------------|---|-------------------------|-----------|---|
| Optical System | Color Corrected Infinite Optical System | ● | ● | |
| Viewing Head | Inclined 30° binocular tube, 360° rotatable, interpupillary distance: 48-75mm | ● | ● | |
| | Inclined 30° trinocular tube, 360° rotatable, interpupillary distance: 48-75mm, splitting ratio: eyepiece: trinocular=20:80 | ○ | ○ | |
| Eyepiece | High eyepoint wide field eyepiece WF10X/20mm | ● | ● | |
| | High eyepoint wide field eyepiece WF10X/20mm, with reticule 0.1mm | ○ | ○ | |
| | High eyepoint wide field eyepiece WF10X/20mm, focusing adjustable, with reticule 0.1mm | ○ | ○ | |
| | Wide field eyepiece WF10X/18mm | ○ | ○ | |
| Infinite Objective | Infinity E-Plan Objectives | 4X/ NA 0.10 | ● | ○ |
| | | 10X/ NA 0.25 | ● | ○ |
| | | 40X/ NA 0.65 (S) | ● | ○ |
| | | (Oil) 100X/NA 1.25 (S) | ● | ○ |
| | Infinity Plan Objectives | 4X/ NA 0.10 | ○ | ● |
| | | 10X/ NA 0.25 | ○ | ● |
| | | 20X/ NA 0.40 (S) | ○ | ○ |
| | | 40X/ NA 0.66 (S) | ○ | ● |
| | | 60X/ NA 0.80 (S) | ○ | ○ |
| | | (Oil) 100X/ NA 1.25 (S) | ○ | ● |
| | (Water) 100X/ NA 1.15 (S) | ○ | ○ | |
| Nosepiece | Backward Quadruple Nosepiece | ● | ● | |
| Mechanical Stage | Size 145mm×140mm, travel range:76mm*52mm, scale: 0.1mm, two slide holders | ● | ● | |
| | Rackless (integrated) stage, size 140mm*135mm, travel range: 75mm*35mm, scale: 0.1mm, two slide holders | ○ | ○ | |
| Condenser | Abbe condenser NA 1.25 with iris diaphragm | ● | ● | |
| Focusing | Coaxial coarse and fine focusing knob, coarse focusing travel range: 25mm, fine division: 2μm | ● | ● | |
| Illumination | 3W LED lamp, voltage: 100V-240V | ● | ● | |
| Dark Field Unit | Dark Field Ring (Dry, N.A.0.9), used for 4X-40X objectives | ○ | ○ | |
| Polarizing Unit | Analyzer & Polarizer | ○ | ○ | |
| Filter | Blue filter (Φ32) | ○ | ○ | |
| | Green filter (Φ32) | ○ | ○ | |
| | Yellow filter (Φ32) | ○ | ○ | |
| C-mount | 0.35X C-mount adapter, adjustable focus | ○ | ○ | |
| | 0.5X C-mount adapter, adjustable focus | ○ | ○ | |

| | | | |
|---------------------|---|---|---|
| | 0.75X C-mount adapter, adjustable focus | ○ | ○ |
| | 1X C-mount adapter, adjustable focus | ○ | ○ |
| | Trinocular digital eyepiece interface | ○ | ○ |
| Wire Winding Device | Wind cable on back of the microscope | ● | ● |

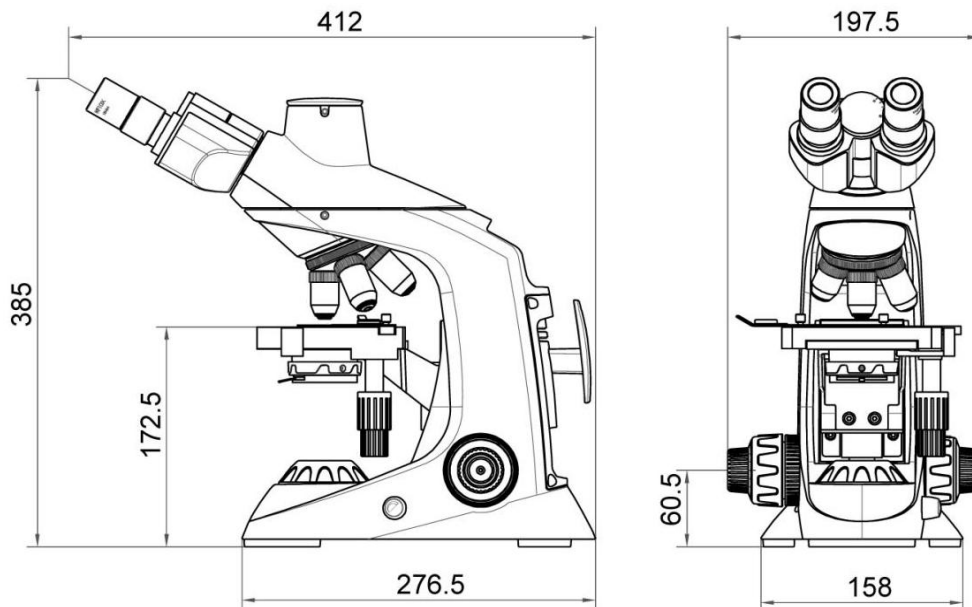
Note: ●Standard Outfit, ○Optional

Packing Size: 350mm*270mm*470mm, Gross Weight: 6.7 kgs, Net Weight: 5.3 kgs

Sample Image



Dimension



Unit: mm

17. BS-2040 Biological Microscope



BS-2040B



BS-2040T

Introduction

BS-2040 series microscopes are classical biological microscopes with ingenious stand, high-definition infinite optical system, sharp image and comfortable operation, which make your work much enjoyable.

Feature

1. Infinite optical system.
2. Extra wide field eyepiece EW10X/20 with diopter adjustment is optional.
3. Sliding-in centerable condenser.
4. Easy carrying handle.

Application

BS-2040 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

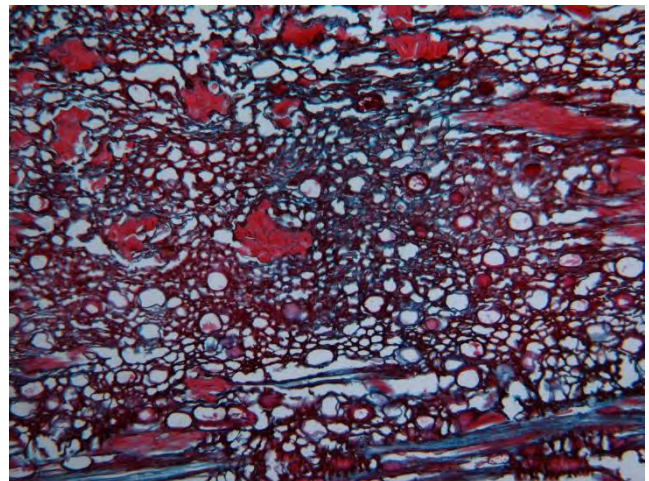
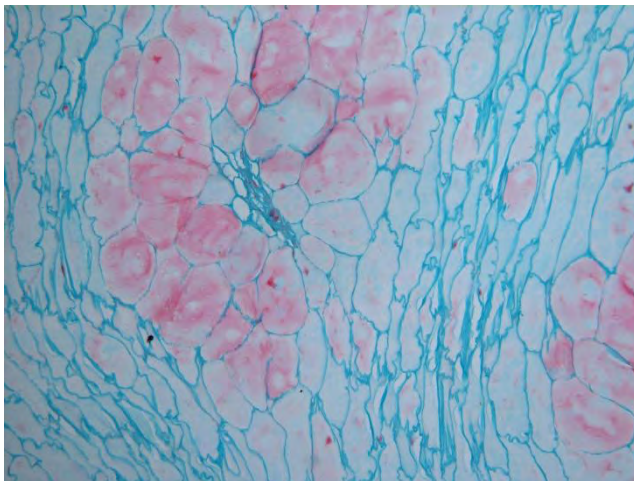
Specification

| Item | Specification | BS-2040B | BS-2040T | BS-2040B (Plan) | BS-2040T (Plan) |
|----------------|--|----------|----------|-----------------|-----------------|
| Optical System | Infinite Optical System | • | • | • | • |
| Viewing Head | Seidentopf binocular head, 30° inclined, interpupillary 48-75mm | • | | • | |
| | Seidentopf trinocular head, 30° inclined, interpupillary 48-75mm | | • | | • |

| | | | | | |
|-------------------------|---|---|---|---|---|
| Eyepiece | Wide field eyepiece WF 10×/18 | ○ | ○ | ○ | ○ |
| | Extra wide field eyepiece EW10×/20 with diopter adjustment | ● | ● | ● | ● |
| Objective | Infinite semi-plan achromatic objectives 4X, 10X, 40X, 100X | ● | ● | ○ | ○ |
| | Infinite plan achromatic objectives 4X, 10X, 40X, 100X | ○ | ○ | ● | ● |
| | Infinite plan achromatic objectives 2X, 4X, 40X, 60X | ○ | ○ | ○ | ○ |
| Nosepiece | Backward quadruple nosepiece | ● | ● | ● | ● |
| | Backward quintuple nosepiece | ○ | ○ | ○ | ○ |
| Stage | Double-layer mechanical stage 140mm*140mm/ 75mm*50mm | ● | ● | ● | ● |
| Condenser | Sliding-in centerable condenser NA1.25 | ● | ● | ● | ● |
| Focusing | Coaxial coarse & fine adjustment, fine division 0.002mm, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, moving range 20mm | ● | ● | ● | ● |
| Illumination | 3W LED lamp, brightness adjustable | ● | ● | ● | ● |
| | 6V/20W halogen lamp, brightness adjustable | ○ | ○ | ○ | ○ |
| Optional accessories | Phase contrast kit | ○ | ○ | ○ | ○ |
| | Dark field attachment | ○ | ○ | ○ | ○ |
| | YX-2 epi-fluorescent attachment | ○ | ○ | ○ | ○ |
| | FL-LED epi-fluorescent attachment | ○ | ○ | ○ | ○ |
| Package | 1pc/carton, 35cm*35.5cm*55.5cm, gross weight: 12kg | ● | ● | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Image



18. BS-2041 Biological Microscope



BS-2041B



BS-2041T

Introduction

BS-2041 series microscopes are classical biological microscopes with ingenious stand, high definition infinite optical system, sharp image and comfortable operation, which make your work much enjoyable.

Feature

1. Infinite Optical System.
2. WF10×/22mm eyepiece with diopter adjustment.
3. Sliding-in Centerable Condenser.
4. Easy carrying handle.
5. Fluorescent attachment, Dark field condenser, phase contrast attachment, simple polarizing kit are optional.

Application

BS-2041 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

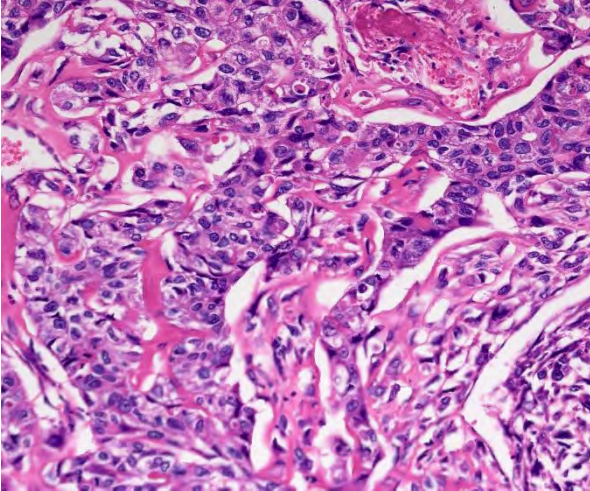
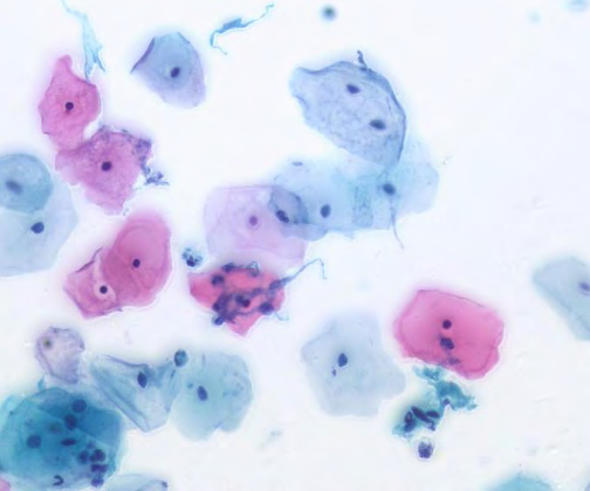
Specification

| Item | Specification | BS-2041B | BS-2041T |
|----------------|---|----------|----------|
| Optical System | Infinite Optical System | • | • |
| Viewing Head | Seidentopf binocular head, 30° inclined, Interpupillary 48-75mm, eyepiece tube: Φ30mm | • | |
| | Seidentopf trinocular head, 30° inclined, Interpupillary 48-75mm, eyepiece tube: Φ30mm, Light distribution: 100: 0 and 50:50(eyepiece: trinocular tube) | | • |

| | | | |
|----------------------|---|---|---|
| Eyepiece | Wide Field Eyepiece WF 10×/22mm with Diopter Adjustment | ● | ● |
| | WF15×/16mm Eyepiece | ○ | ○ |
| | WF20×/12mm Eyepiece | ○ | ○ |
| | Eyepiece micrometer 0.1mm | ○ | ○ |
| Objective | Infinite Plan Achromatic Objectives 4×, 10×, 40×(S), 100×(S, Oil) | ● | ● |
| | Infinite Plan Achromatic Objectives 2×, 20×, 60×(S) | ○ | ○ |
| | Infinite Semi-Plan Achromatic Objectives 4×, 10×, 40×(S), 100×(S, Oil) | ○ | ○ |
| | Infinite Plan Fluorescent Achromatic Objectives 4×, 10×, 20×, 40×(S), 100×(S, Oil) | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | ● | ● |
| | Backward Quintuple Nosepiece | ○ | ○ |
| Stage | Double Layers Mechanical Stage 140mm×140mm/ 75mm×50mm | ● | ● |
| | Rackless Double Layers Mechanical Stage 150mm×139mm, Moving Range 75mm×52mm | ○ | ○ |
| Condenser | Sliding-in Centerable Condenser NA1.25 | ● | ● |
| | Swing-out Condenser NA 0.9/ 0.25 | ○ | ○ |
| | Dark Field Condenser NA 0.7-0.9 (Dry, used for objectives except 100×) | ○ | ○ |
| | Dark Field Condenser NA 1.25-1.36 (Oil, used for 100× objectives) | ○ | ○ |
| Focusing | Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm | ● | ● |
| Illumination | 3W LED Lamp, Brightness Adjustable | ● | ● |
| | 6V/20W Halogen Lamp, Brightness Adjustable | ○ | ○ |
| | Kohler Illumination | ○ | ○ |
| Optional accessories | Simple Polarizing Set (Polarizer and Analyzer) | ○ | ○ |
| | Phase Contrast Kit BPHE-1 (Infinite 10×, 20×, 40×, 100× phase contrast objective) | ○ | ○ |
| | YX-2 Epi-fluorescent Attachment (Mercury lamp) | ○ | ○ |
| | FL-LED Epi-fluorescent Attachment (LED lamp, B, G, UV, V, R fluorescent filters are available) | ○ | ○ |
| Video Adapter | 1× C-mount (Used for large format microscope camera) | | ○ |
| | 0.5× C-mount (Used for microscope camera) | | ● |
| Photo Adapter | BDPL-1(Nikon), Used for Nikon DSLR cameras | | ○ |
| | BDPL-2(Canon), Used for Canon DSLR cameras | | ○ |
| Packing | 1pc/carton, 35cm*35.5cm*55.5cm, gross weight: 12kg | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Image



19. BS-2043 Biological Microscope



BS-2043B



BS-2043T

Introduction

BS-2043 series microscopes are high quality biological microscopes, which are ideal choice for basic research and teaching experiments. With infinity color correction optical system and excellent compound eye illumination system, BS-2043 can get uniform illumination, clear and bright images at any magnification.

User-friendly design, simple and convenient operation, even students can easily operate. Maintains excellent reliability and durability, suitable for high-intensity use in the education area.

Feature

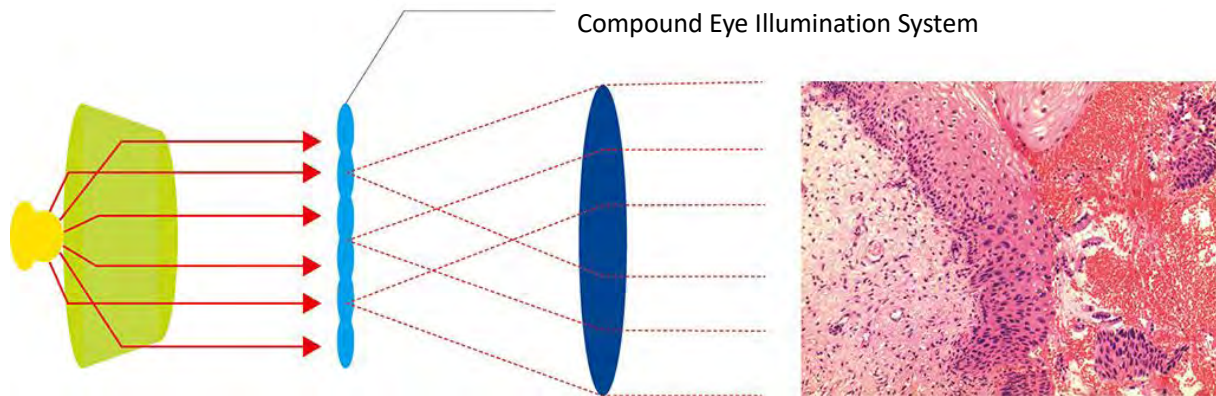
5. Infinite color corrected optical system provides sharp and comfortable images

6. User-friendly design to increase comfort and safety

BS-2043 series microscope body adopts a smooth curve design, eliminating all sharp edges, rackless stage is optional. The frame has handles for easy handling. The microscope is stable, compact and beautiful. The charging adapter is built-in, saving laboratory space.

7. Compound eye illumination system provide uniform and comfortable illumination

BS-2043 innovatively adopts the compound eye illumination system to improve the contrast rate and effectively improve the illumination uniformity of the specimen surface. The brightness of the entire field of view is uniform. Even at the edge of the field of view, uniform and bright background brightness can be achieved under any magnification. Soft light, not harsh, not only the imaging effect is more ideal, but also can reduce the sense of fatigue, improve the observation experience and working efficiency. The LED light source is environment-friendly. Compared with halogen lamps, it consumes less energy and provides about 100,000 hours of sustainable lighting.



8. Continuous adjustable light intensity, easy to operate

The dimming knob is equipped on the right side of the microscope frame, which can easily adjust the illumination brightness by gently rotating. Continuous adjustable light intensity can effectively overcome the brightness jump phenomenon in traditional microscopes, and avoid the dizziness caused by instantaneous strong light.



5. Easy to store power cord

BS-2043 has a storage box on the back, which makes full use of the built-in space of the body and can be used to store the power cord conveniently. BS-2043 is designed to make your desktop clean and tidy.

6. With various optional accessories, easy to achieve observation methods of bright field, phase contrast, simple polarization, dark field and others

Bright Field Observation

The compound eye illumination system is equipped with professional plan achromatic objectives and has bright imaging. It can be used to observe cell structures and analyze plant slices.

Phase Contrast Observation

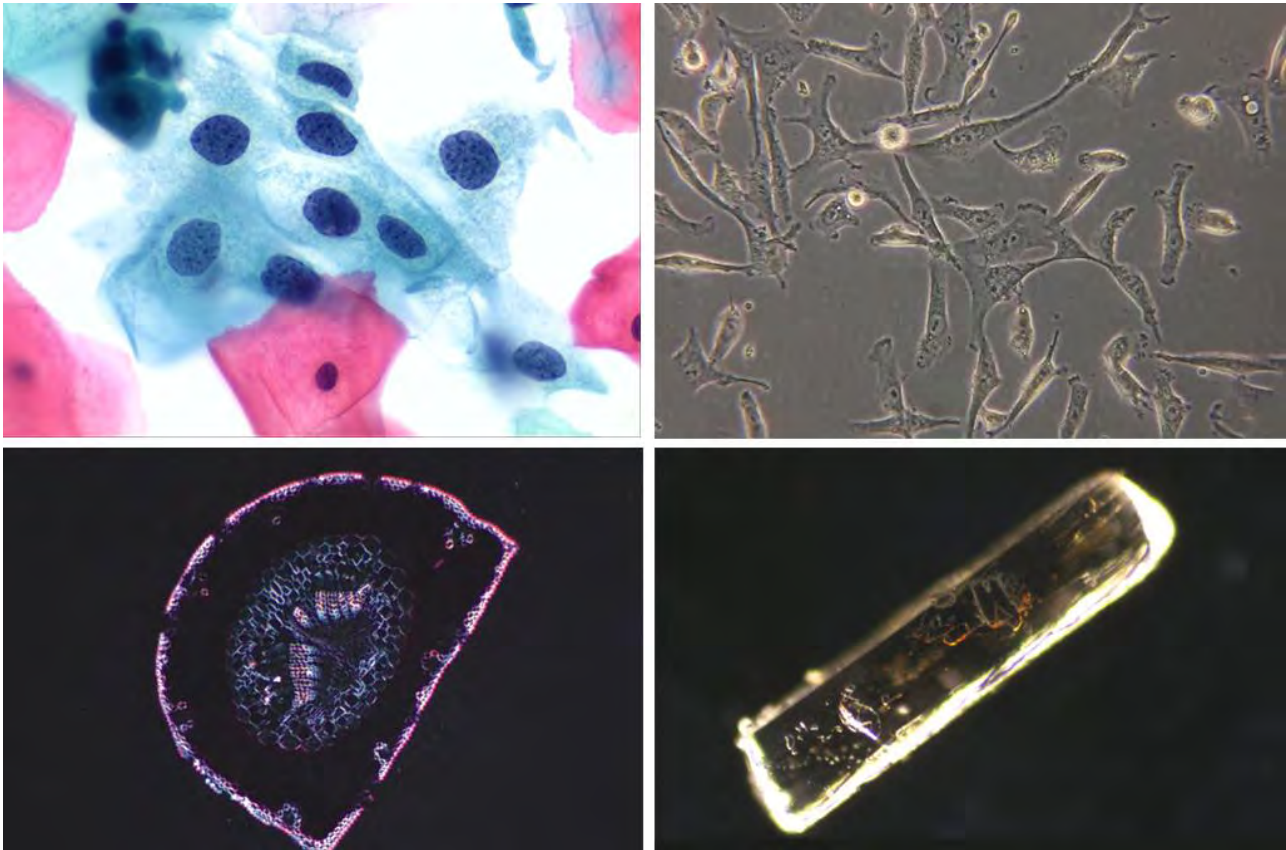
It is applicable to observe the specimens with high transparency, such as cells, bacteria and other small, transparent objects in biological specimens.

Simple Polarization Observation

It can judge substances with birefringence characteristic such as animals, plant cells and humoral crystals.

Dark Field Observation

There is no need to replace the special dark field condenser, as long as the dark field plates are inserted into the condenser and the diaphragm is switched, the dark field lighting can be realized.



From left to right, up to down is:

- ① Endometrial Carcinoma 40X Bright Field
- ② Adherent Cells 10X Phase Contrast
- ③ Pine Needles 10X Polarization
- ④ Sodium Glutamate Crystal 10X Dark Field

Application

BS-2043 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in education, medical and sanitary establishments, such as schools, hospitals, clinics, laboratories, medical academies, colleges, universities and related teaching labs and research centers.

Specification

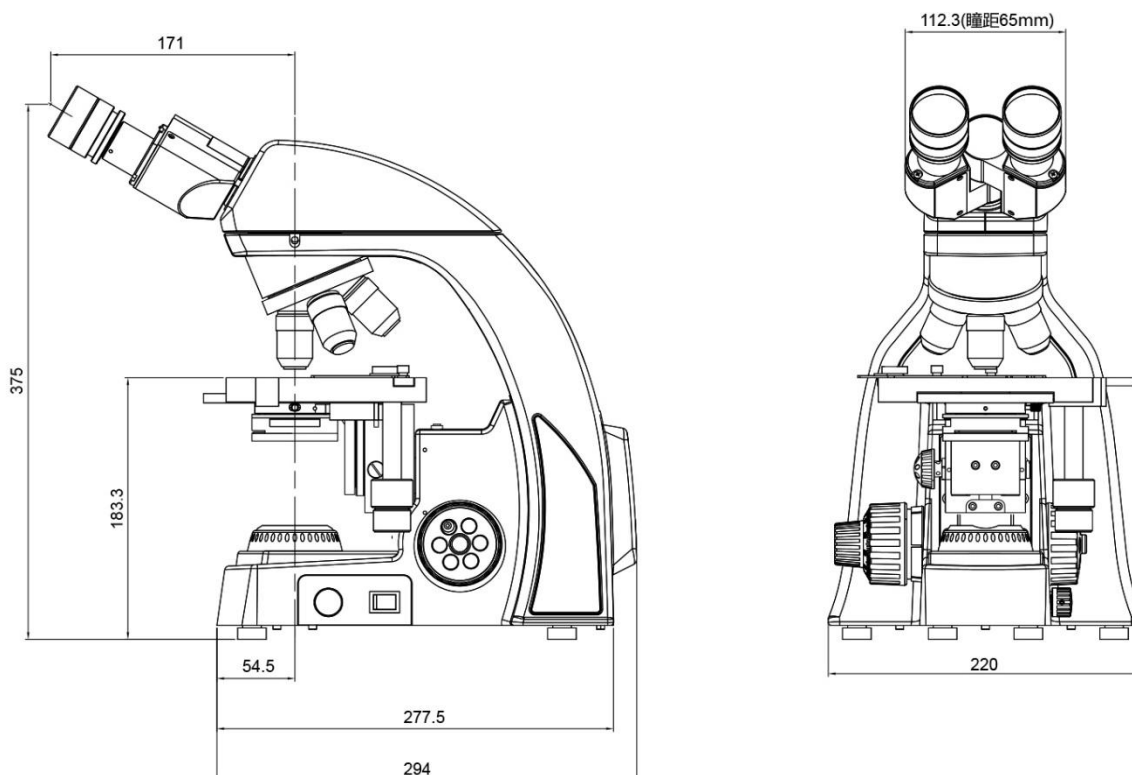
| Item | Specification | BS-2043B | BS-2043T |
|----------------|---|----------|----------|
| Optical System | Infinite Color Corrected Optical System | ● | ● |
| Viewing Head | Seidentopf binocular head, 30° inclined, interpupillary distance: 47-75mm | ● | |
| | Seidentopf trinocular head, 30° inclined, interpupillary distance: 47-75mm, splitting ratio: eyepiece: trinocular=80:20 | | ● |
| Eyepiece | High eyepoint wide field plan eyepiece PL10X/18mm, with adjustable diopter | ○ | ○ |
| | High eyepoint wide field plan eyepiece PL10X/18mm, with adjustable diopter and micrometer | ○ | ○ |

| | | | | |
|-------------------------------|--|---|---|---|
| | High eyepoint wide field plan eyepiece PL10X/20mm, with adjustable diopter | | ● | ● |
| | High eyepoint wide field plan eyepiece PL10X/20mm, with adjustable diopter and micrometer | | ○ | ○ |
| | Eyepiece micrometer | | ○ | ○ |
| | Reticle for eyepiece | | ○ | ○ |
| | Eyepiece pointer | | ○ | ○ |
| Objectives | Infinite Plan Achromatic Objectives | 2X/NA=0.6, WD=5mm. With frosted glass accessories | ○ | ○ |
| | | 4X/NA=0.1, WD=15mm | ● | ● |
| | | 10X/NA=0.25, WD=10.8mm | ● | ● |
| | | 20X/NA=0.40, WD=1.5mm | ○ | ○ |
| | | 40X/NA=0.65, WD=0.8mm | ● | ● |
| | | 60X/NA=0.85, WD=0.3mm | ○ | ○ |
| | | 100X/NA=1.25, WD=0.21mm | ● | ● |
| | Infinity Plan Achromatic Positive Phase Contrast Objectives | 10X/NA=0.25, WD=10.8mm | ○ | ○ |
| | | 20X/NA=0.4, WD=1.5mm | ○ | ○ |
| | | 40X/NA=0.65, WD=0.8mm | ○ | ○ |
| 100X (Oil)/NA=1.25, WD=0.18mm | | ○ | ○ | |
| Nosepiece | Reversed Quadruple Nosepiece | | ● | ● |
| | Reversed Quintuple Nosepiece | | ○ | ○ |
| Stage | Double layers mechanical stage, size: 150mm*140mm, moving range: 76mm*50mm, double slide holder, accuracy: 0.1mm | | ○ | ○ |
| | Rackless double layers mechanical stage, size: 150mm*162mm, moving range: 76mm*50mm, double slide holder, accuracy: 0.1mm. Wear-resistant and anti-corrosion treatment on the stage surface | | ● | ● |
| Microscope Body | Low position coarse and fine coaxial focus system, with elastic adjustment device and upper limit device. Coarse adjustment range: 25mm, fine precision: 0.002mm. The condenser can be raised and lowered. 100V -240V external transformer, 3W LED, (cool or warm color for option, cool color temperature: 4750K-5500K, warm color temperature: 2850K-3250K). | | ● | ● |
| Condenser | N.A.1.25 compound eye illumination condenser group (with plug-in phase contrast and dark field plate slot), condenser preset center and height adjustable | | ● | ● |
| Filters | Blue filter (Φ45mm), only for halogen lamp | | ○ | ○ |
| | Green filter (Φ45mm) | | ○ | ○ |
| | Yellow filter (Φ45mm) | | ○ | ○ |
| | Neutral filter (Φ45mm) | | ○ | ○ |
| Polarizing Kit | Polarizer | | ○ | ○ |
| | Analyzer | | ○ | ○ |
| Frosted Glass Accessories | Frosted glass accessories (use with 2X objectives) | | ○ | ○ |
| Dark Field Plate | Dark field insert plate (used for 4X-40X objectives) | | ○ | ○ |

| | | | |
|---------------------|---|---|---|
| Centering Telescope | Centering Telescope Φ 23.2mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Plate | 10X, 40X phase contact insert plate (used for 10X, 40X phase contrast objectives) | ○ | ○ |
| | 20X, 100X phase contact insert plate (used for 20X, 100X phase contrast objectives) | ○ | ○ |
| Adapter | 0.35× C-mount adapter, adjustable | ○ | ○ |
| | 0.5× C-mount adapter, adjustable | ○ | ○ |
| | 0.65× C-mount adapter, adjustable | ○ | ○ |
| | 1× C-mount adapter, adjustable | ○ | ○ |
| | Trinocular tube for digital eyepiece (Φ 23.2mm) | ○ | ○ |
| Others | High precision micrometer | ○ | ○ |
| | Ordinary micrometer | ○ | ○ |
| | Internal hexagonal Spanner M3 | ● | ● |
| | Internal hexagonal Spanner M1.6 | ● | ● |
| Packing | 1 set/carton, 58x56x28cm, GW: 10kgs, NW: 8kgs | ● | ● |

Note: ● Standard Outfit, ○ Optional

Dimension



Unit: mm

20. BS-2044 Biological Microscope



BS-2044B



BS-2044T

Introduction

BS-2044 series microscopes are high quality biological microscopes, which are specially designed for biological and medical research and teaching experiments for colleges, universities, laboratories and related institutes. With infinity color correction optical system and excellent Koehler illumination system, BS-2044 can get uniform illumination, clear and bright images at any magnification. These microscopes can be used for teaching experiments, pathological examinations and clinical diagnosis. With outstanding functions, excellent cost performance, easy and comfortable operation, BS-2044 series microscopes present over expected and splendid micro images.

Feature

1. Infinite Color Corrected Optical System provides sharp and comfortable images.
2. Wide-field high eye-point eyepieces and plan achromatic objectives make the effect of fluorescence observation more perfect.
3. Outstanding appearance design and ergonomics structure design, long time use without feeling tired.
4. With the design of security lock and safe limits, it is much more secure, stable and can be kept for long.
5. Various microscopic examinations can be fulfilled, such as brightfield, dark-field, phase contrast, fluorescence, simple polarizing and so on.
6. LED fluorescence excitation illumination, breaking through the traditional type, is more stable, low radiation and long working life. Special fluorescent filters for tuberculosis examination is available.

Application

BS-2044 series biological microscopes are ideal instruments for biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in education, medical and sanitary establishments, such as schools, hospitals, clinics, laboratories, medical academies, colleges, universities and related teaching labs and research centers.

Specification

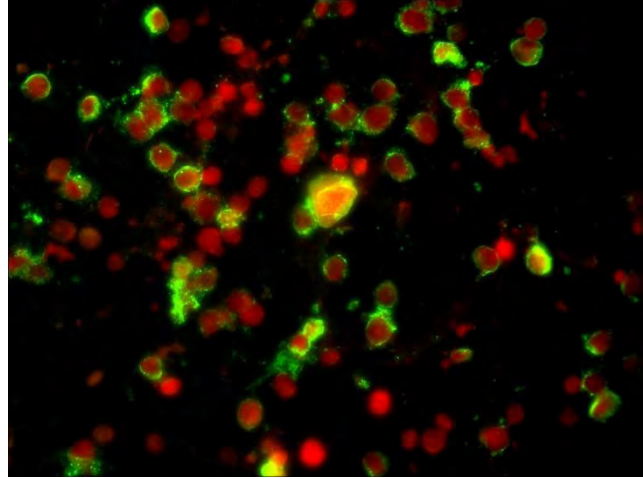
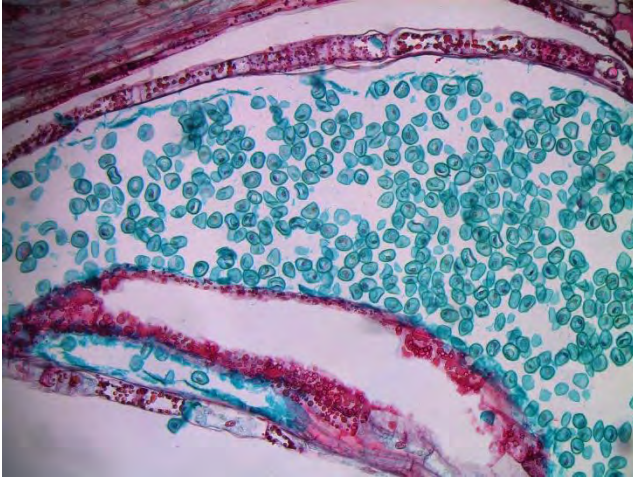
| Item | Specification | BS-2044B | BS-2044T | |
|----------------------------------|--|---|----------|---|
| Optical System | Infinite Color Corrected Optical System, parfocal distance 45mm | ● | ● | |
| Viewing Head | Seidentopf binocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, eyepiece tube: Φ30mm | ● | ○ | |
| | Seidentopf trinocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=8:2, eyepiece tube: Φ30mm | ○ | ● | |
| | Seidentopf trinocular head(dedicated for fluorescence), 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=5:5, eyepiece tube: Φ30mm | ○ | ○ | |
| Eyepiece | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5 | ● | ● | |
| | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5, with eyepiece micrometer | ○ | ○ | |
| | Eyepiece pointer | ○ | ○ | |
| | Eyepiece micrometer | ○ | ○ | |
| Objective | Infinite Plan Achromatic Objectives | 2×, NA=0.06, WD=5.0mm (should work with frosted filter) | ○ | ○ |
| | | 4×, NA=0.10, WD=15.0mm | ● | ● |
| | | 10×, NA=0.25, WD=10.8mm | ● | ● |
| | | 20×, NA=0.45, WD=1.5mm | ○ | ○ |
| | | 40×(S), NA=0.65, WD=0.8mm | ● | ● |
| | | 60×(S), NA=0.85, WD=0.3mm | ○ | ○ |
| | | 100×(S, Oil), NA=1.25, WD=0.21mm | ● | ● |
| | Infinite Plan Phase Contrast Objective | 10×, NA=0.25, WD=12.1mm | ○ | ○ |
| | | 20×, NA=0.40, WD=1.56mm | ○ | ○ |
| | | 40×(S), NA=0.65, WD=0.36mm | ○ | ○ |
| | | 100×(S, Oil), NA=1.25, WD=0.21mm | ○ | ○ |
| | Infinite Plan Semi-Apochromatic Fluorescence Objectives | 4×, NA=0.13, WD=16.4mm | ○ | ○ |
| | | 10×, NA=0.30, WD=8.1mm | ○ | ○ |
| | | 20×, NA=0.50, WD=2.0mm | ○ | ○ |
| 40×(S), NA=0.75, WD=0.74mm | | ○ | ○ | |
| 100×(S, Oil), NA=1.28, WD=0.14mm | ○ | ○ | | |
| Nosepiece | Reversed Quadruple Nosepiece | ● | ● | |
| | Reversed Quintuple Nosepiece | ○ | ○ | |
| Stage | Double Layers Mechanical Stage 150mm×140mm, moving range 76mm×50mm, double slide holder, accuracy: 0.1mm | ● | ● | |
| | Rackless Double Layers Mechanical Stage 150mm×162mm, moving range 76mm×50mm, double slide holder, accuracy: 0.1mm, Wear-resistant and anti-corrosion treatment on the stage surface | ○ | ○ | |
| Condenser | N.A.1.25 Koehler illumination condenser (with plug-in phase contrast and dark field plate slot), condenser preset center and height adjustable | ● | ● | |
| | N.A.1.25 Kohler Illumination Turntable Phase Contrast Condenser Set for 10X, 20X, | ○ | ○ | |

| | | | |
|--|--|---|---|
| | 40X, 100X Phase Contrast Observation | | |
| | N.A.1.25 Kohler Illumination Turntable Phase Contrast + Dark Field Condenser Set for 10X, 20X, 40X, 100X Phase Contrast and 4X-40X Dark Field Observation | ○ | ○ |
| Focusing | Low position coaxial focusing system, moving range 30mm, with upper limit and tightness adjustment, fine division 0.002mm | ● | ● |
| Transmitted Illumination | Adaptive 100V-240V, AC50/60Hz wide range voltage, single high brightness 3W LED lamp (preset center, Cold/warm color temperature optional, cold color temperature 4750K-5500K, warm color temperature 2850K-3250K), light intensity can be continuously adjusted | ● | ● |
| | Adaptive 100V-240V, AC50/60Hz wide range voltage, 6V/30W Halogen lamp (Philips), preset center, light intensity can be continuously adjusted | ○ | ○ |
| Mercury Reflected Illumination | Mercury reflected fluorescent illuminator, 100W mercury lamp house, 100W DC mercury bulb (OSRAM/ Chinese brand) | ○ | ○ |
| LED Fluorescent Reflected Illumination | B1 band-pass type fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength:470nm | ○ | ○ |
| | G1 band-pass type LED fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 560nm | ○ | ○ |
| | B2 long-pass type fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength:470nm | ○ | ○ |
| | UV2 ultraviolet long-pass type LED module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 385nm | ○ | ○ |
| | UV4 ultraviolet long-pass type LED module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 365nm | ○ | ○ |
| | B4 LED fluorescence module dedicated for TB, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 455nm | ○ | ○ |
| | Other various LED module for option, which can be custom-tailor according to the needs of clinical diagnosis. | ○ | ○ |
| Filters | Blue filter Φ45mm | ○ | ○ |
| | Green filter Φ45mm | ○ | ○ |
| | Yellow filter Φ45mm | ○ | ○ |
| | Neutral filter Φ45mm | ○ | ○ |
| Polarizing Kit | Polarizer | ○ | ○ |
| | Analyzer | ○ | ○ |
| Dark Field Plate | Dark field insert plate (used for 4x-40x objectives) | ○ | ○ |
| Centering Telescope | Centering TelescopeΦ23.2mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Plate | 10x, 40x Phase Contact Insert Plate (used for 10x, 40x phase contrast objectives) | ○ | ○ |
| | 20x, 100x Phase Contact Insert Plate (used for 20x, 100x phase contrast objectives) | ○ | ○ |
| C-mount Adapter | 0.35x C-mount adapter, adjustable | ○ | ○ |
| | 0.5x C-mount adapter, adjustable | ○ | ○ |
| | 1x C-mount adapter, adjustable | ○ | ○ |
| | Trinocular tube for digital eyepiece (Φ23.2mm) | ○ | ○ |

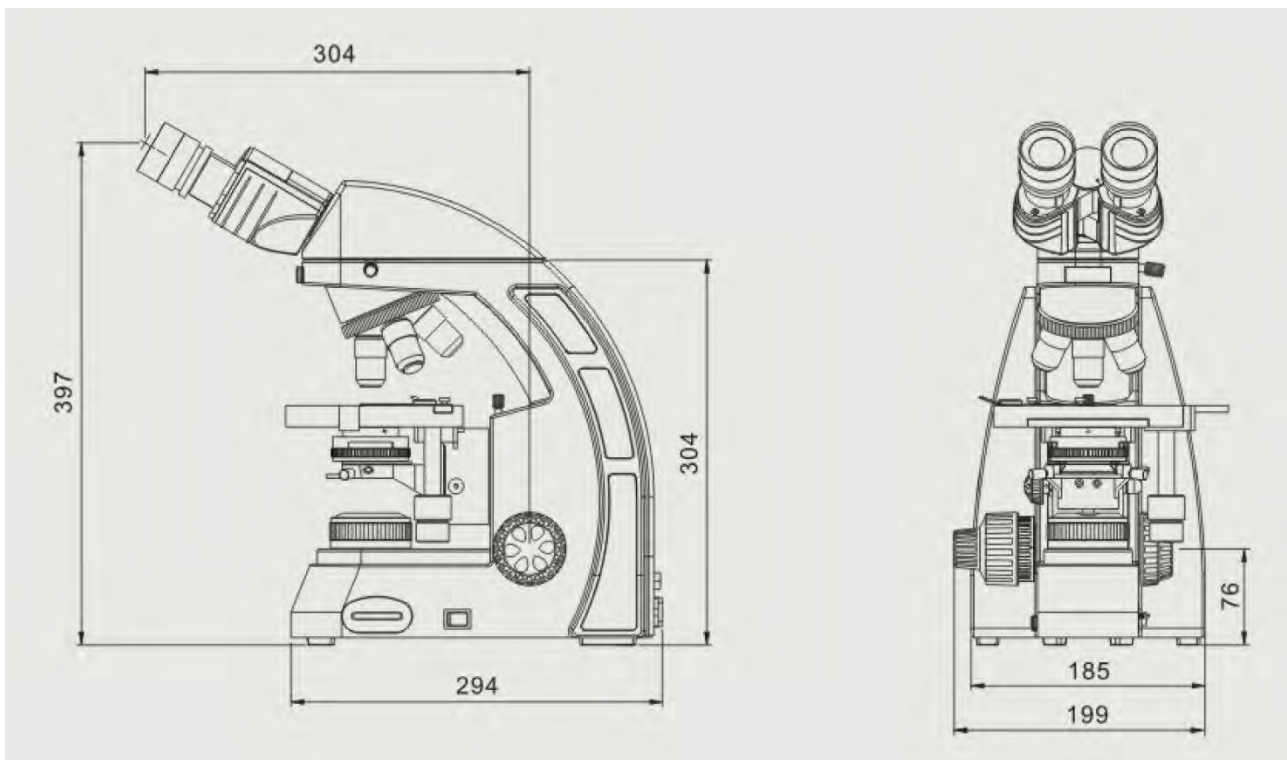
| | | | |
|---------|---|---|---|
| Packing | 1 set/carton, 58x56x28cm, GW: 10kgs, NW: 8kgs | • | • |
|---------|---|---|---|

Note: ● Standard Outfit, ○ Optional

Sample Images



Dimension



Unit:mm

21. BS-2044F Fluorescent Biological Microscope



BS-2044FB

Introduction

BS-2044F series microscopes are high quality biological microscopes, which are specially designed for biological and medical research and teaching experiments for colleges, universities, laboratories and related institutes. With infinity color correction optical system and excellent Koehler illumination system, BS-2044F can get uniform illumination, clear and bright images at any magnification. These microscopes can be used for teaching experiments, pathological examinations and clinical diagnosis. With outstanding functions, excellent cost performance, easy and comfortable operation, BS-2044F series microscopes present over expected and splendid micro images.

Feature

1. Infinite Color Corrected Optical System provides sharp and comfortable images.
2. Wide-field high eye-point eyepieces and plan achromatic objectives make the effect of fluorescence observation more perfect.
3. Outstanding appearance design and ergonomics structure design, long time use without feeling tired.
4. With the design of security lock and safe limits, it is much more secure, stable and can be kept for long.
5. Various microscopic examinations can be fulfilled, such as brightfield, dark-field, phase contrast, fluorescence, simple polarizing and so on.
6. LED fluorescence excitation illumination, breaking through the traditional type, is more stable, low radiation and long working life. Special fluorescent filters for tuberculosis examination is available.

Application

BS-2044F series biological microscopes are ideal instruments for biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in education, medical and sanitary establishments, such as schools, hospitals, clinics, laboratories, medical academies, colleges, universities and related teaching labs and research centers.

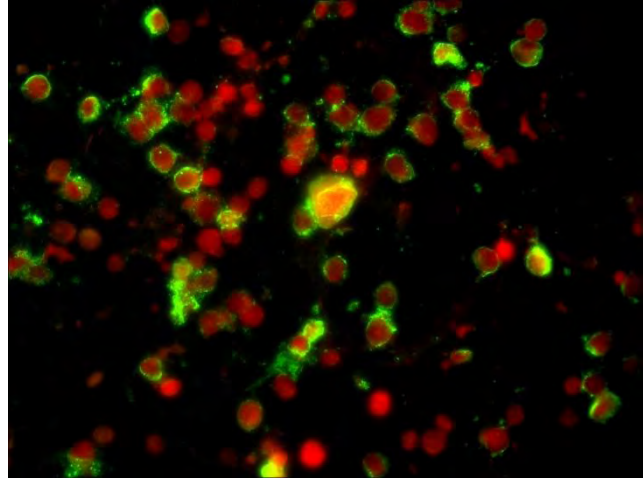
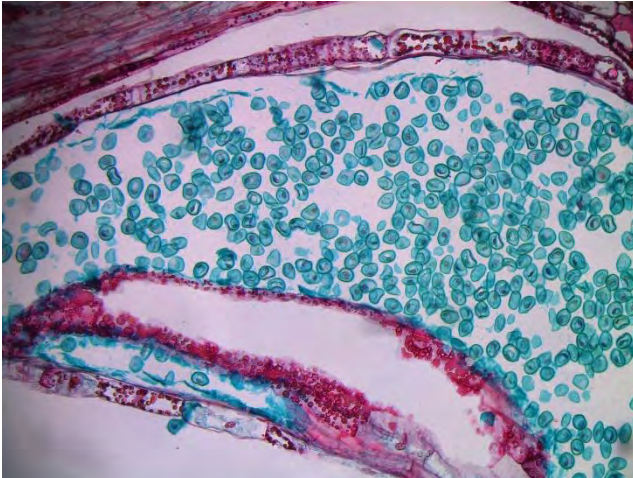
Specification

| Item | Specification | BS-2044FB | BS-2044FT | |
|----------------|--|----------------------------------|-----------|---|
| Optical System | Infinite Color Corrected Optical System, parfocal distance 45mm | ● | ● | |
| Viewing Head | Seidentopf binocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, eyepiece tube: Φ30mm | ● | ○ | |
| | Seidentopf trinocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=8:2, eyepiece tube: Φ30mm | ○ | ○ | |
| | Seidentopf trinocular head(dedicated for fluorescence), 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=5:5, eyepiece tube: Φ30mm | ○ | ● | |
| Eyepiece | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5 | ● | ● | |
| | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5, with eyepiece micrometer | ○ | ○ | |
| | Eyepiece pointer | ○ | ○ | |
| | Eyepiece micrometer | ○ | ○ | |
| Objective | Infinite Plan Achromatic Objectives | 4×, NA=0.10, WD=11.9mm | ● | ● |
| | | 10×, NA=0.25, WD=12.1mm | ● | ● |
| | | 20×, NA=0.45, WD=1.5mm | ○ | ○ |
| | | 40×(S), NA=0.65, WD=0.36mm | ● | ● |
| | | 60×(S), NA=0.85, WD=0.3mm | ○ | ○ |
| | | 100×(S, Oil), NA=1.25, WD=0.18mm | ● | ● |
| | Infinite Plan Phase Contrast Objective | 10×, NA=0.25, WD=12.1mm | ○ | ○ |
| | | 20×, NA=0.45, WD=1.5mm | ○ | ○ |
| | | 40×(S), NA=0.65, WD=0.36mm | ○ | ○ |
| | | 100×(S, Oil), NA=1.25, WD=0.18mm | ○ | ○ |
| | Infinite Plan Semi-Apochromatic Fluorescence Objectives | 4×, NA=0.13, WD=18.5mm | ○ | ○ |
| | | 10×, NA=0.30, WD=10.6mm | ○ | ○ |
| | | 20×, NA=0.50, WD=2.33mm | ○ | ○ |
| | | 40×(S), NA=0.75, WD=0.6mm | ○ | ○ |
| | | 100×(S, Oil), NA=1.28, WD=0.21mm | ○ | ○ |
| Nosepiece | Reversed Quadruple Nosepiece | ● | ● | |
| | Reversed Quintuple Nosepiece | ○ | ○ | |
| Stage | Double Layers Mechanical Stage 150mm×140mm, moving range 76mm×50mm, double slide holder, accuracy: 0.1mm | ● | ● | |
| | Rackless Double Layers Mechanical Stage 150mm×162mm, moving range 76mm×50mm, double slide holder, accuracy: 0.1mm, Wear-resistant and anti-corrosion treatment on the stage surface | ○ | ○ | |
| Condenser | N.A.1.25 Koehler illumination condenser (with plug-in phase contrast and dark field plate slot), condenser preset center and height adjustable | ● | ● | |
| Focusing | Low position coaxial focusing system, moving range 30mm, with upper limit and tightness adjustment, fine division 0.002mm | ● | ● | |
| Transmitted | Adaptive 100V-240V, AC50/60Hz wide range voltage, single high brightness 3W | ● | ● | |

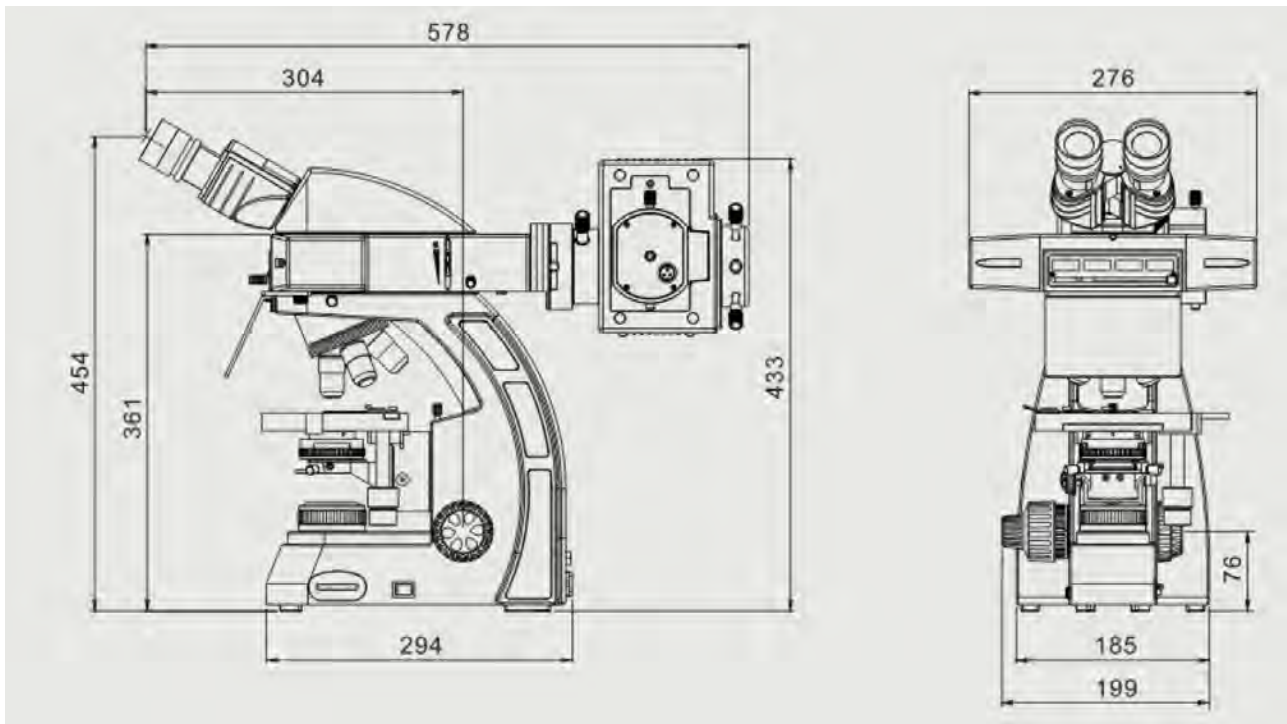
| | | | |
|--|--|---|---|
| Illumination | LED (preset center), light intensity can be continuously adjusted | | |
| Mercury Reflected Illumination | Mercury reflected fluorescent illuminator, 100W mercury lamp house, 100W DC mercury bulb (OSRAM/ Chinese brand) | ● | ● |
| LED Fluorescent Reflected Illumination | B1 band-pass type fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength:470nm | ○ | ○ |
| | G1 band-pass type LED fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 560nm | ○ | ○ |
| | B4 LED fluorescence module dedicated for TB, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 455nm | ○ | ○ |
| | UV2 ultraviolet long-pass type LED module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 365nm | ○ | ○ |
| | Other various LED module for option, which can be custom-tailor according to the needs of clinical diagnosis. | ○ | ○ |
| Filters | Blue filter Φ45mm | ○ | ○ |
| | Green filter Φ45mm | ○ | ○ |
| | Yellow filter Φ45mm | ○ | ○ |
| | Neutral filter Φ45mm | ○ | ○ |
| Polarizing Kit | Polarizer | ○ | ○ |
| | Analyzer | ○ | ○ |
| Dark Field Plate | Dark field insert plate (used for 4x-40x objectives) | ○ | ○ |
| Centering Telescope | Centering TelescopeΦ23.2mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Plate | 10x, 40x Phase Contact Insert Plate (used for 10x, 40x phase contrast objectives) | ○ | ○ |
| | 20x, 100x Phase Contact Insert Plate (used for 20x, 100x phase contrast objectives) | ○ | ○ |
| C-mount Adapter | 0.35x C-mount adapter, adjustable | ○ | ○ |
| | 0.5x C-mount adapter, adjustable | ○ | ○ |
| | 1x C-mount adapter, adjustable | ○ | ○ |
| | Trinocular tube for digital eyepiece (Φ23.2mm) | ○ | ○ |
| Packing | 2 cartons/set, 58x56x28cm, GW: 10kgs, NW: 8kgs; 51x31x49cm, GW: 11kgs, NW: 9kgs | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Images



Dimension



Unit:mm

22. BS-2044F(LED) LED Fluorescent Biological Microscope



BS-2044FB(LED)



BS-2044FT(LED)

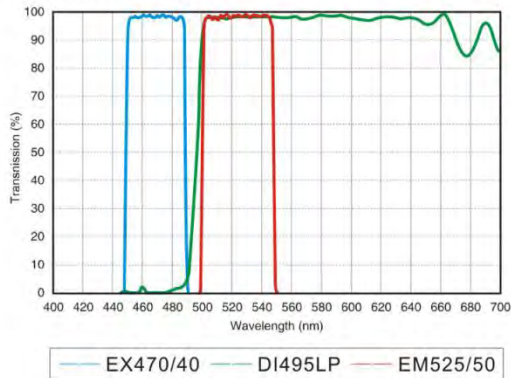
Introduction

BS-2044F(LED) series LED fluorescent microscopes are high quality biological microscopes, which are specially designed for biological and medical research and teaching experiments for colleges, universities, laboratories and related institutes. With infinity color correction optical system and excellent Koehler illumination system, BS-2044F(LED) can get uniform illumination, clear and bright images at any magnification. These microscopes can be used for teaching experiments, pathological examinations and clinical diagnosis. With outstanding functions, excellent cost performance, easy and comfortable operation, BS-2044F(LED) series microscopes present over expected and splendid micro images. BS-2044F(LED) with B4 LED fluorescence module can be used for diagnosis of tuberculosis (TB).

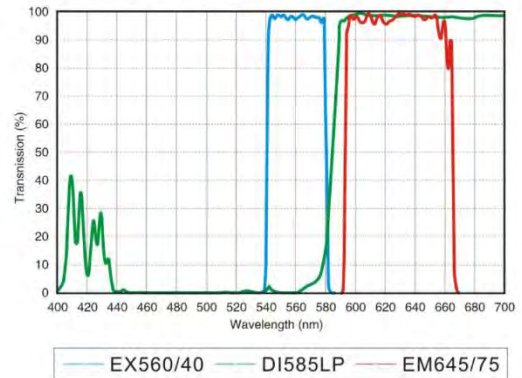
Feature

1. Infinite Color Corrected Optical System provides sharp and comfortable images.
2. Wide-field high eye-point eyepieces and plan achromatic objectives and semi-APO fluorescent objectives make the effect of fluorescence observation more perfect.
3. Outstanding appearance design and ergonomics structure design, long time use without feeling tired.
4. With the design of security lock and safe limits, it is much more secure, stable and can be kept for long.
5. Various microscopic examinations can be fulfilled, such as brightfield, dark-field, phase contrast, fluorescence, simple polarizing and so on.
6. LED fluorescence excitation illumination, breaking through the traditional type, is more stable, low radiation and long working life. Special fluorescent filter(B4) for tuberculosis examination is available. Except for TB test module B4, you could select B1, G1, UV2 fluorescence modules according to different applications. You can also choose several modules and replace them when you need.

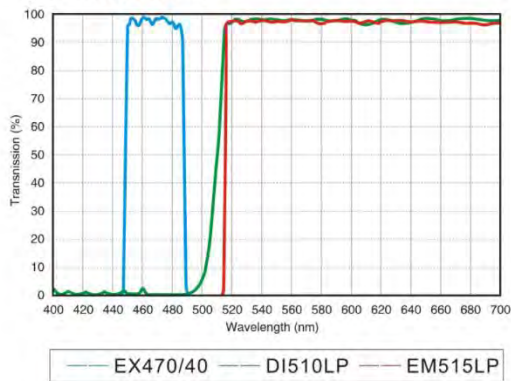
B1: EGFP/GFP/FITC /Alexa Fluor@488
Cy2@/DIO/Fluo-4



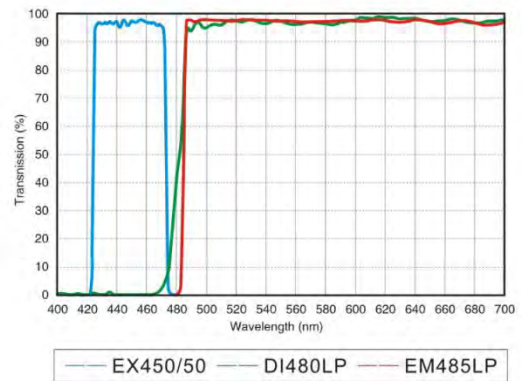
G1: TexasRED@/TexasRed@-X/Cy3.5
Mito Tracker@Red



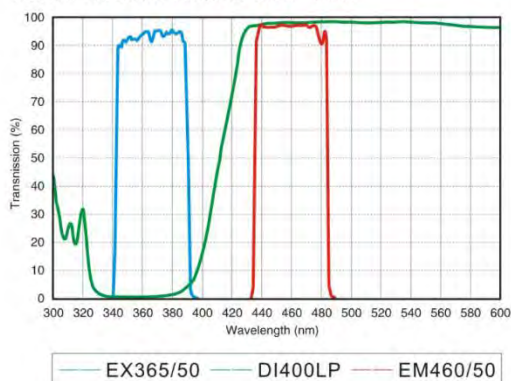
B2: EGFP/GFP/FITC /Alexa Fluor@488
Cy2@/DIO/Fluo-4



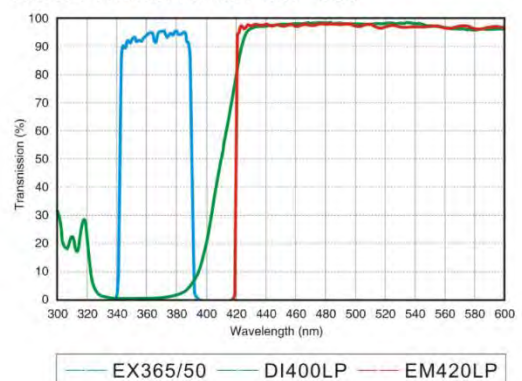
B4: Auramine O/wtGFP



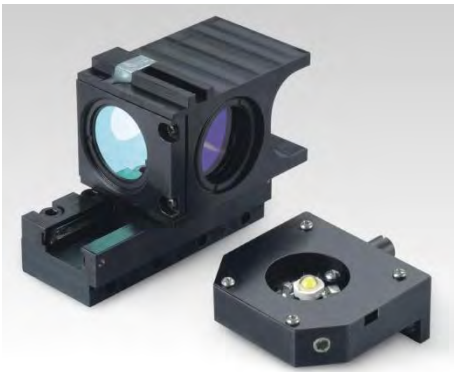
UV1: DAPI/Hoechst 33342/33258 AMCA/
AMCA-X Blue/ Alexa Fluor® 350



UV2: DAPI/Hoechst 33342/33258 AMCA/
AMCA-X Blue/ Alexa Fluor® 350



7. The Single-band LED fluorescent attachment have light intensity control function, with 6V/2A DC power supply, external transformer, easy connection and safe use. There is a switch and easy to change from fluorescent observation to bright field observation with transmitted illumination.



8. Semi-APO fluorescent objectives are optional. These objectives have large numerical aperture, provide high-resolution, high contrast microscopic images. We also can provide objectives without cover slip corrections, which is used to observe smear slides.



Infinite Plan Semi-APO fluorescent objectives without cover slip corrections



Infinite Plan Semi-APO fluorescent objectives with 0.17mm cover slip corrections

Application

BS-2044F(LED) series biological microscopes are ideal instruments for biological, pathological, histological, bacterial,

immune, pharmacological and genetic fields. They can be widely used in education, medical and sanitary establishments, such as schools, hospitals, clinics, laboratories, medical academies, colleges, universities and related teaching labs and research centers.

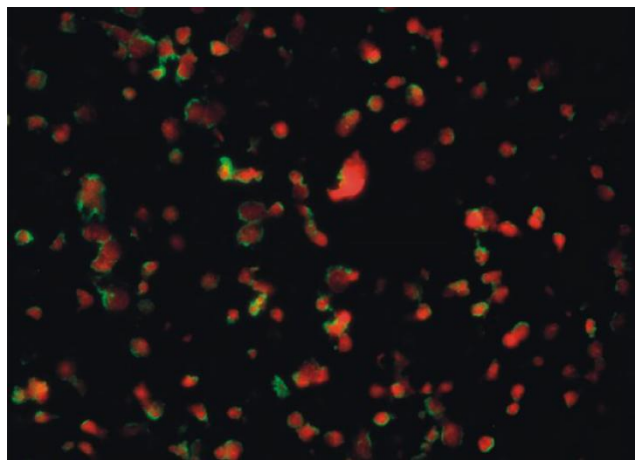
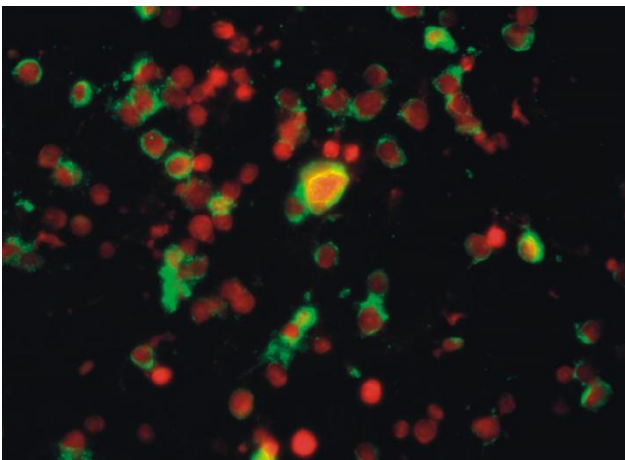
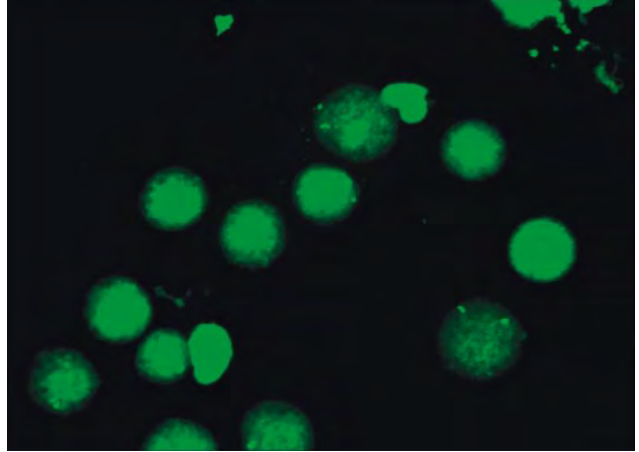
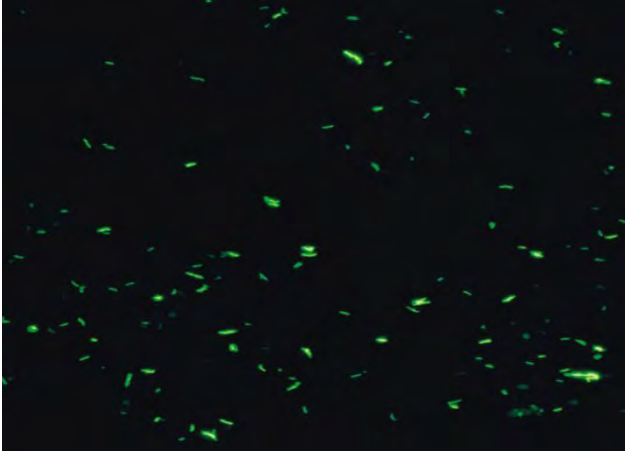
Specification

| Item | Specification | BS-2044FB (LED) | BS-2044FT (LED) | |
|----------------------------------|--|----------------------------------|--------------------|---|
| Optical System | Infinite Color Corrected Optical System, parfocal distance 45mm | ● | ● | |
| Viewing Head | Seidentopf binocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, eyepiece tube: Φ30mm | ● | ○ | |
| | Seidentopf trinocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=8:2, eyepiece tube: Φ30mm | ○ | ○ | |
| | Seidentopf trinocular head(dedicated for fluorescence), 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=5:5, eyepiece tube: Φ30mm | ○ | ● | |
| Eyepiece | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5 | ● | ● | |
| | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5, with eyepiece micrometer | ○ | ○ | |
| | Eyepiece pointer | ○ | ○ | |
| | Eyepiece micrometer | ○ | ○ | |
| Objective | Infinite Plan Achromatic Objectives | 4×, NA=0.10, WD=11.9mm | ● | ● |
| | | 10×, NA=0.25, WD=12.1mm | ● | ● |
| | | 20×, NA=0.45, WD=1.5mm | ○ | ○ |
| | | 40×(S), NA=0.65, WD=0.36mm | ● | ● |
| | | 60×(S), NA=0.85, WD=0.3mm | ○ | ○ |
| | | 100×(S, Oil), NA=1.25, WD=0.18mm | ● | ● |
| | Infinite Plan Phase Contrast Objective | 10×, NA=0.25, WD=12.1mm | ○ | ○ |
| | | 20×, NA=0.45, WD=1.5mm | ○ | ○ |
| | | 40×(S), NA=0.65, WD=0.36mm | ○ | ○ |
| | | 100×(S, Oil), NA=1.25, WD=0.18mm | ○ | ○ |
| | Infinite Plan Semi-Apochromatic Fluorescence Objectives | 4×, NA=0.13, WD=18.5mm | ○ | ○ |
| | | 10×, NA=0.30, WD=10.6mm | ○ | ○ |
| | | 20×, NA=0.50, WD=2.33mm | ○ | ○ |
| | | 40×(S), NA=0.75, WD=0.6mm | ○ | ○ |
| 100×(S, Oil), NA=1.28, WD=0.21mm | | ○ | ○ | |
| Nosepiece | Reversed Quadruple Nosepiece | ● | ● | |
| | Reversed Quintuple Nosepiece | ○ | ○ | |
| Stage | Double Layers Mechanical Stage 150mm×140mm, moving range 76mm×50mm, double slide holder, accuracy: 0.1mm | ● | ● | |
| | Rackless Double Layers Mechanical Stage 150mm×162mm, moving range | ○ | ○ | |

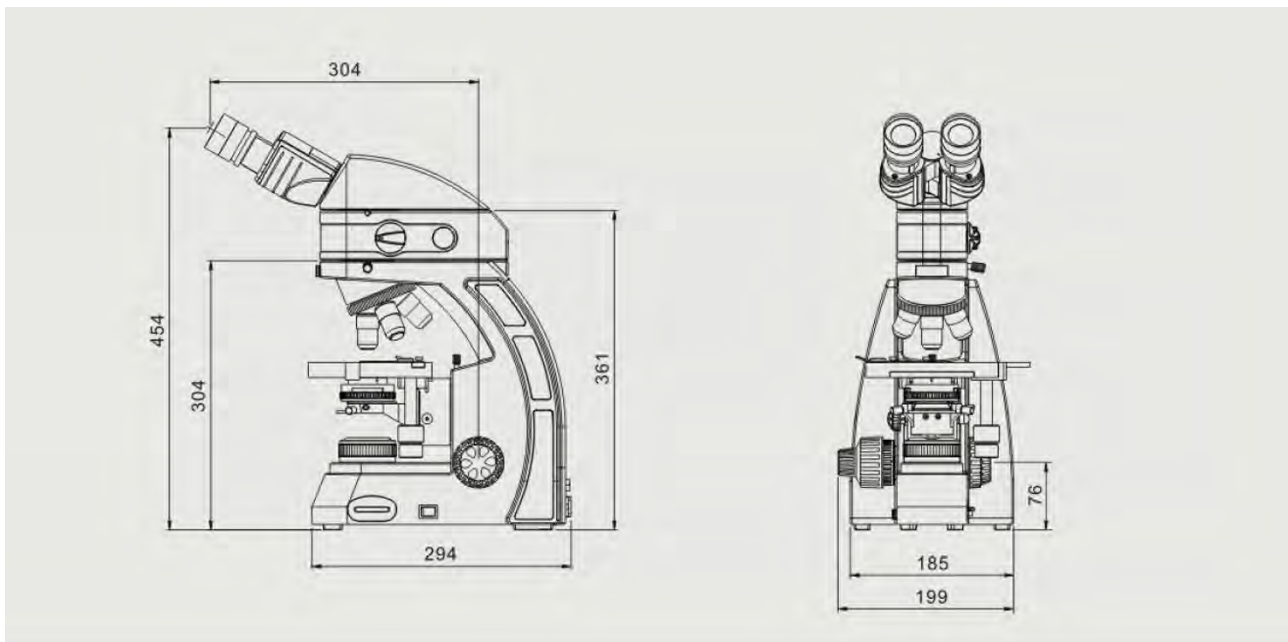
| | | | |
|--|--|---|---|
| | 76mm×50mm, double slide holder, accuracy: 0.1mm, Wear-resistant and anti-corrosion treatment on the stage surface | | |
| Condenser | N.A.1.25 Koehler illumination condenser (with plug-in phase contrast and dark field plate slot), condenser preset center and height adjustable | ● | ● |
| Focusing | Low position coaxial focusing system, moving range 30mm, with upper limit and tightness adjustment, fine division 0.002mm | ● | ● |
| Transmitted Illumination | Adaptive 100V-240V, AC50/60Hz wide range voltage, single high brightness 3W LED (preset center), light intensity can be continuously adjusted | ● | ● |
| Mercury Reflected Illumination | Mercury reflected fluorescent illuminator, 100W mercury lamp house, 100W DC mercury bulb (OSRAM/ Chinese brand), with B1, G1 fluorescent filters | ○ | ○ |
| LED Fluorescent Reflected Illumination | B1 band-pass type fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength:470nm | ● | ● |
| | G1 band-pass type LED fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 560nm | ○ | ○ |
| | B4 LED fluorescence module dedicated for TB, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 455nm | ○ | ○ |
| | UV2 ultraviolet long-pass type LED module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 365nm | ○ | ○ |
| | Other various LED module for option, which can be custom-tailor according to the needs of clinical diagnosis. | ○ | ○ |
| Filters | Blue filter Φ45mm | ○ | ○ |
| | Green filter Φ45mm | ○ | ○ |
| | Yellow filter Φ45mm | ○ | ○ |
| | Neutral filter Φ45mm | ○ | ○ |
| Polarizing Kit | Polarizer | ○ | ○ |
| | Analyzer | ○ | ○ |
| Dark Field Plate | Dark field insert plate (used for 4×-40× objectives) | ○ | ○ |
| Centering Telescope | Centering TelescopeΦ23.2mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Plate | 10×, 40× Phase Contact Insert Plate (used for 10×, 40× phase contrast objectives) | ○ | ○ |
| | 20×, 100× Phase Contact Insert Plate (used for 20×, 100× phase contrast objectives) | ○ | ○ |
| C-mount Adapter | 0.35× C-mount adapter, adjustable | ○ | ○ |
| | 0.5× C-mount adapter, adjustable | ○ | ○ |
| | 1× C-mount adapter, adjustable | ○ | ○ |
| | Trinocular tube for digital eyepiece (Φ23.2mm) | ○ | ○ |
| Packing | 2 cartons/set, 58x56x28cm, GW: 10kgs, NW: 8kgs; 51x31x49cm, GW: 11kgs, NW: 9kgs | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Images



Dimension



Unit:mm

23. BS-2045 Biological Microscope



BS-2045B



BS-2045T

Introduction

BS-2045 series microscopes are high quality biological microscopes, which are specially designed for biological and medical research and teaching experiments for colleges, universities, laboratories and related institutes. With infinity color correction optical system and excellent Koehler illumination system, BS-2045 can get uniform illumination, clear and bright images at any magnification. These microscopes can be used for teaching experiments, pathological examinations and clinical diagnosis. With outstanding functions, excellent cost performance, easy and comfortable operation, BS-2045 series microscopes present over expected and splendid micro images.

Feature

1. Infinite Color Corrected Optical System provides sharp and comfortable images.
2. Wide-field high eye-point eyepieces and plan achromatic objectives make the effect of fluorescence observation more perfect.
3. Outstanding appearance design and ergonomics structure design, long time use without feeling tired.
4. With the design of security lock and safe limits, it is much more secure, stable and can be kept for long.
5. Various microscopic examinations can be fulfilled, such as brightfield, dark-field, phase contrast, fluorescence, simple polarizing and so on.
6. LED fluorescence excitation illumination, breaking through the traditional type, is more stable, low radiation and long working life. Special fluorescent filter for tuberculosis examination is available.
7. Rackless stage can avoid the potential hazard caused by moving rack.



8. Intelligent illumination system.

(1) With coded nosepiece, the microscope is able to automatically remember the light intensity of each objective which you are used to, it helps to improve the work efficiency and decrease the visual fatigue.

(2) LCD on the right side of the frame shows color temperature and light intensity, as well as the objective magnification you are using, it is helpful to make record of experiment condition.



(3) Color temperature can be adjusted to get the best contrast, which is ranging from 3000K to 5600K.



3000K warm color LED (minimum)



5600K natural white LED (maximum)

The color temperature of LED light source is adjustable by straight screwdriver.



Application

BS-2045 series biological microscopes are ideal instruments for biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in education, medical and sanitary establishments, such as schools, hospitals, clinics, laboratories, medical academies, colleges, universities and related teaching labs and research centers.

Specification

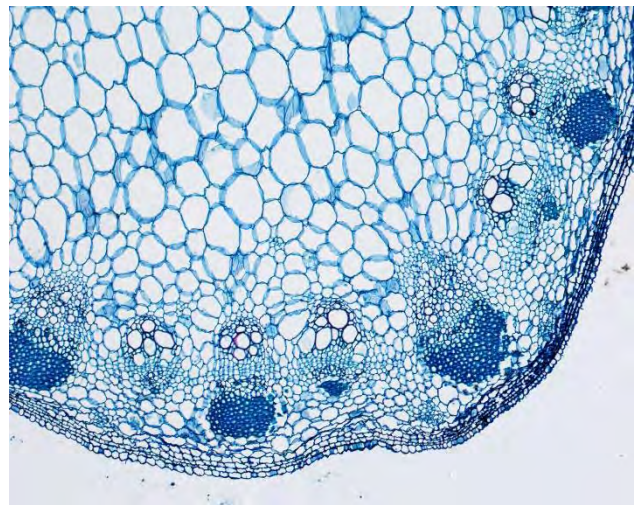
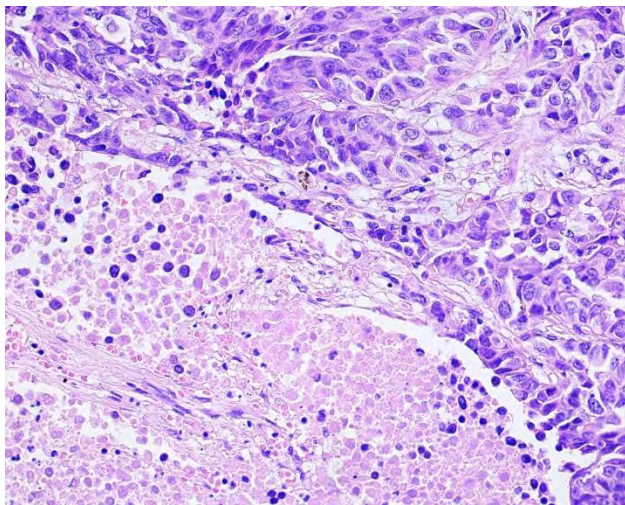
| Item | Specification | BS-2045B | BS-2045T | |
|----------------|--|--|----------|---|
| Optical System | Infinite Color Corrected Optical System, parfocal distance 45mm | ● | ● | |
| Viewing Head | Seidentopf binocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, eyepiece tube: Φ30mm | ● | ○ | |
| | Seidentopf trinocular head, 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=8:2, eyepiece tube: Φ30mm | ○ | ● | |
| | Seidentopf trinocular head(dedicated for fluorescence), 30° inclined, Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=5:5, eyepiece tube: Φ30mm | ○ | ○ | |
| Eyepiece | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5 | ● | ● | |
| | High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5, with eyepiece micrometer | ○ | ○ | |
| | Eyepiece pointer | ○ | ○ | |
| | Eyepiece micrometer | ○ | ○ | |
| Objective | Infinite Plan Achromatic Objectives | 2×, NA=0.06, WD=5.00mm (should work with frosted filter) | ○ | ○ |
| | | 4×, NA=0.10, WD=15.00mm | ● | ● |
| | | 10×, NA=0.25, WD=10.80mm | ● | ● |
| | | 20×, NA=0.45, WD=1.50mm | ● | ● |
| | | 40×(S), NA=0.65, WD=0.80mm | ● | ● |
| | | 60×(S), NA=0.85, WD=0.30mm | ○ | ○ |
| | Infinite Plan Phase Contrast Objective | 100×(S, Oil), NA=1.25, WD=0.21mm | ● | ● |
| | | 10×, NA=0.25, WD=10.80mm | ○ | ○ |
| | | 20×, NA=0.40, WD=1.50mm | ○ | ○ |
| | | 40×(S), NA=0.65, WD=0.80mm | ○ | ○ |
| | 100×(S, Oil), NA=1.25, WD=0.18mm | ○ | ○ | |

| | | | | |
|--|---|----------------------------------|---|---|
| | Infinite Plan Semi-Apochromatic Fluorescence Objectives | 4x, NA=0.13, WD=16.40mm | ○ | ○ |
| | | 10x, NA=0.30, WD=8.10mm | ○ | ○ |
| | | 20x, NA=0.50, WD=2.00mm | ○ | ○ |
| | | 40x(S), NA=0.75, WD=0.74mm | ○ | ○ |
| | | 100x(S, Oil), NA=1.28, WD=0.14mm | ○ | ○ |
| Nosepiece | Reversed Coded Quintuple Nosepiece | ● | ● | |
| Stage | Rackless Double Layers Mechanical Stage 150mm×162mm, moving range 76mm×50mm, double slide holder, accuracy: 0.1mm, Wear-resistant and anti-corrosion treatment on the stage surface | ● | ● | |
| | Double Layers Mechanical Stage 150mm×140mm, moving range 76mm×50mm, double slide holder, accuracy: 0.1mm | ○ | ○ | |
| Condenser | N.A.1.25 Koehler illumination condenser with aperture diaphragm (with plug-in phase contrast and dark field plate slot), condenser preset center and height adjustable | ● | ● | |
| | N.A.1.25 Kohler Illumination Turntable Phase Contrast Condenser Set for 10X, 20X, 40X, 100X Phase Contrast Observation | ○ | ○ | |
| | N.A.1.25 Kohler Illumination Turntable Phase Contrast + Dark Field Condenser Set for 10X, 20X, 40X, 100X Phase Contrast and 4X-40X Dark Field Observation | ○ | ○ | |
| Focusing | Low position coaxial focusing system, moving range 30mm, with upper limit and tightness adjustment, fine division 0.002mm | ● | ● | |
| Transmitted Illumination | 3W LED (3000K-5600K), light intensity continuously adjustable; LCD on the right side of the frame to show the color temperature and the objective magnification | ● | ● | |
| Mercury Reflected Illumination | Mercury reflected fluorescent illuminator with eyes protective plate, 100W mercury lamp house, power supply box, 100W DC mercury bulb (OSRAM/ Chinese brand) | ○ | ○ | |
| LED Fluorescent Reflected Illumination | B1 band-pass type fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength:470nm | ○ | ○ | |
| | G1 band-pass type LED fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 560nm | ○ | ○ | |
| | B2 long-pass type fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength:470nm | ○ | ○ | |
| | UV2 ultraviolet long-pass type LED module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 385nm | ○ | ○ | |
| | UV4 ultraviolet long-pass type LED module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 365nm | ○ | ○ | |
| | B4 LED fluorescence module dedicated for TB test, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 455nm | ○ | ○ | |
| | Other various LED module for option, which can be custom-tailor according to the needs of clinical diagnosis. | ○ | ○ | |
| Filters | Blue filter Φ45mm | ○ | ○ | |
| | Green filter Φ45mm | ○ | ○ | |
| | Yellow filter Φ45mm | ○ | ○ | |
| | Neutral filter Φ45mm | ○ | ○ | |

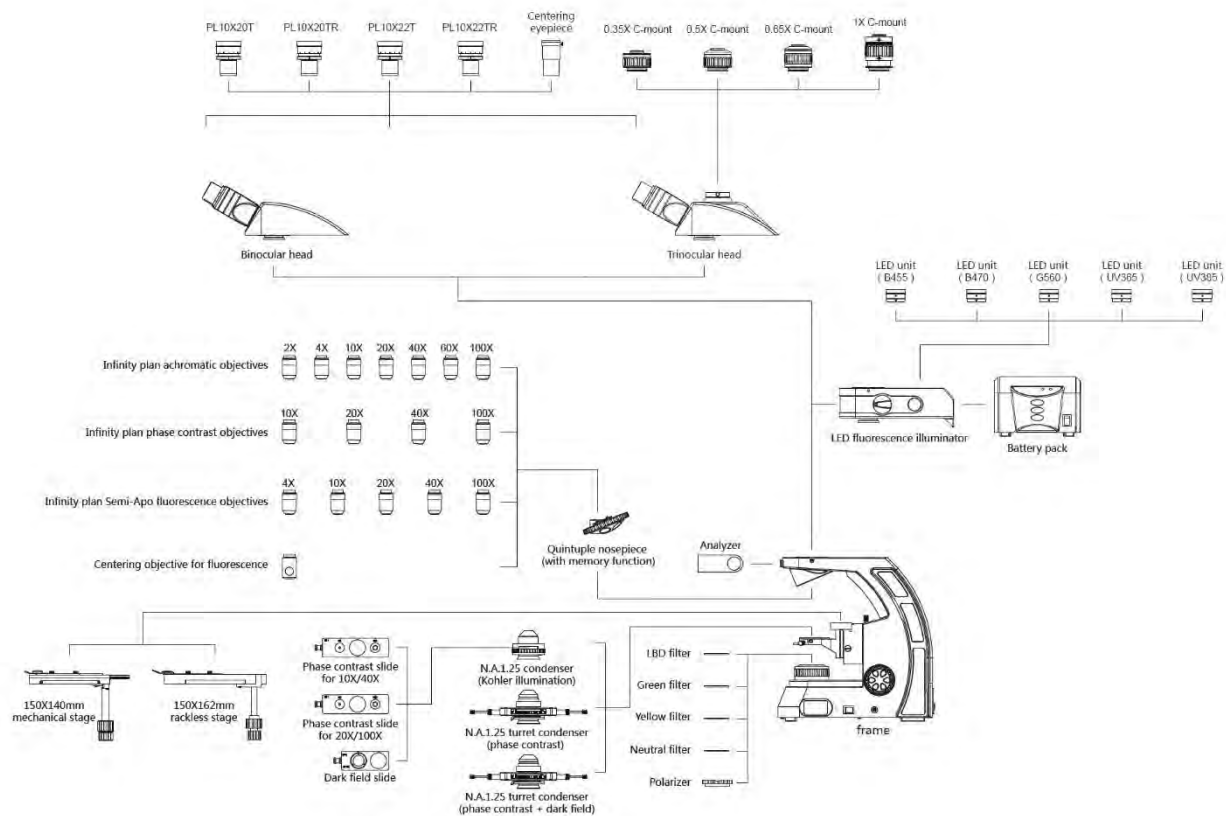
| | | | |
|---------------------|--|---|---|
| Polarizing Kit | Polarizer | ○ | ○ |
| | Analyzer | ○ | ○ |
| Dark Field Plate | Dark field insert plate (used for 4×-40× objectives) | ○ | ○ |
| Centering Telescope | Centering Telescope Φ30mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Plate | 10×, 40× Phase Contrast Insert Plate (used for 10×, 40× phase contrast objectives) | ○ | ○ |
| | 20×, 100× Phase Contrast Insert Plate (used for 20×, 100× phase contrast objectives) | ○ | ○ |
| Power Adapter | External power adapter, input 100V-240V, output 15V2.67A | ● | ● |
| C-mount Adapter | 0.35× C-mount adapter, adjustable | ○ | ○ |
| | 0.5× C-mount adapter, adjustable | ○ | ○ |
| | 0.65× C-mount adapter, adjustable | ○ | ○ |
| | 1× C-mount adapter, adjustable | ○ | ○ |
| | Trinocular tube for digital eyepiece (Φ23.2mm) | ○ | ○ |
| Packing | 1 set/carton, 58x56x28cm, GW: 10kgs, NW: 8kgs | ● | ● |

Note: ● Standard Outfit, ○ Optional

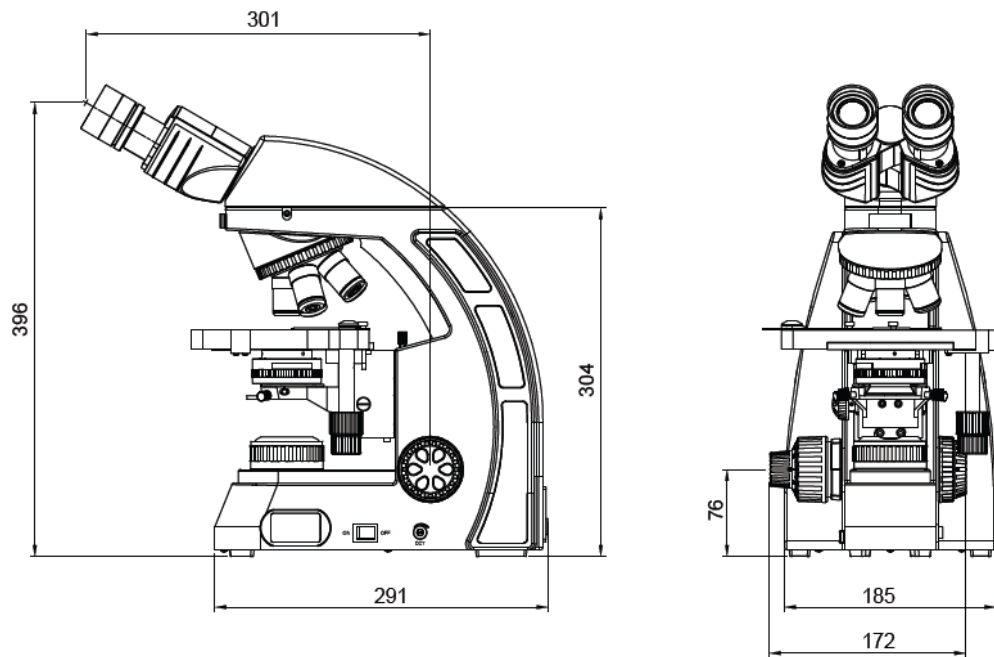
Sample Images



System Diagram



Dimension



Unit: mm

24. BS-2046 Biological Microscope



BS-2046B



BS-2046T

Introduction

BS-2046 series microscopes are specially designed for various microscopy needs such as teaching and clinical diagnosis. It has good optical quality, wide field of view, excellent objective performance, clear and reliable imaging. Ergonomic design provides better comfort and use experience, pays attention to the user's operating habits, starts from the details, and constantly optimizes. Modular design can realize various observation methods such as bright field, dark field, phase contrast, fluorescence, etc., providing more possibilities for your scientific research and exploration. They take up little space and are very convenient for handling, storage and maintenance, these microscopes are the best choice for microscope teaching, clinic examinations and laboratory research.

Feature

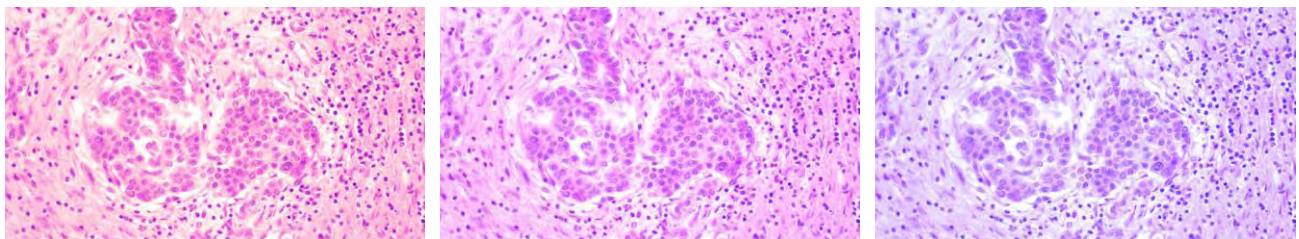
1. Excellent Image Quality.

NIS optical system and optical elements using advanced coating technology make it easy to obtain good quality imaging. Excellent optical system is the guarantee of obtaining plan and clear images. It can provide clear images with high contrast, and the clear range can reach to the edge of the field of view. It also has bright and uniform illumination.



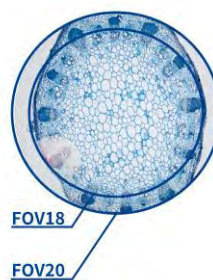
2. BS-2046 has color temperature adjustable function.

BS-2046 has color temperature adjustable function. The color temperature can be adjusted to make the sample present natural color. Its color temperature changes according to observation needs, even if the user changes the brightness, it can maintain the brightness and color temperature comfortably. The LED design life is 60,000 hours, which not only reduces maintenance costs, but also stabilizes the brightness during the whole service life.



3. Wide Field of View.

BS-2046 series microscopes can achieve the 20mm wide field of view under the 10X eyepiece, with more comprehensive observation field and faster sample observation. The eyepiece adopts the plan and distortion-free design to prevent blurring at the edges of the field of view and stray light.



4. Comfortable and safe focus knob.

Low position focus knob design, different areas on the specimen slide can be easily explored while resting your hands on the table, with adjustable torque could improve comfort. BS-2046 is equipped with a stopper that can be used to set the upper limit of the stage height, the stage stops at the set height even when the focus knob is turned, thereby eliminating the risk of over-focusing and breaking the slides or damaging the objectives.



5. Easy to Store and Transport.

BS-2046 series microscopes are small enough to fit into a common classroom cabinet. Equipped with a special carrying handle, light weight and stable structure. The back of the microscope is designed with a hub device to accommodate the long power cord, improve the cleanliness of the laboratory, and also reduce the trip accidents caused by the long power cord during transportation.

6. External power adapter, safer than ordinary microscopes.

External power adapter with DC 5V input, safer than ordinary microscopes.

7. Ergonomic Design.

BS-2046 series microscopes adopt ergonomic design, high eye point, low-hand focusing mechanism, low-hand stage and other ergonomic designs to ensure that users can operate the microscope under the most comfortable conditions and minimize the working fatigue.



8. Stage Designed for Beginners.

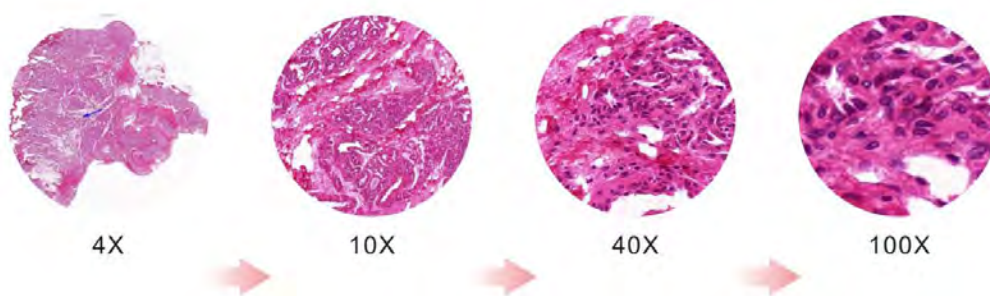
The rackless stage prevents users from being scratched by exposed rack during use. The slide clip can be easily operated with one hand. When the upper limit of the stage is locked, accidental contact between the objectives and the slide can be avoided, which can prevent damage to samples and objectives. The coarse focus torque adjustment device can adjust the comfort of use according to personal operating habits.

9. Binocular head with built-in digital camera is optional.

The head with digital camera is the same size as the binocular head. Built-in ultra-high definition 8.3MP digital camera, which support WIFI, USB and HDMI output, the microscope can be connected to network and build a digital interactive classroom.

10. Light intensity management and coded nosepiece.

BS-2046 series cameras have light intensity management system which can automatically remember and set the light intensity for each objective, with this function, users can increase comfort and save time. The microscopes also have coded nosepiece, when objectives are switched, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.



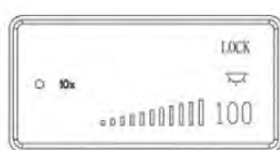
11. Microscope Working Status Display.



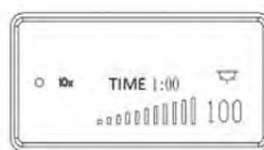
The LCD screen in the front of the BS-2046 series microscopes can display the working status of the microscope, including magnification, light intensity, color temperature, standby status, etc.



Start & working mode



Lock mode



ECO mode



Sleep mode

Application

BS-2046 series microscopes are ideal instruments in biological, pathological, histological, hematological, bacterial, immune, pharmacological and genetic fields. They can be widely used in hospitals, clinics, laboratories, medical academies, colleges, universities, schools and related research centers and teaching labs.

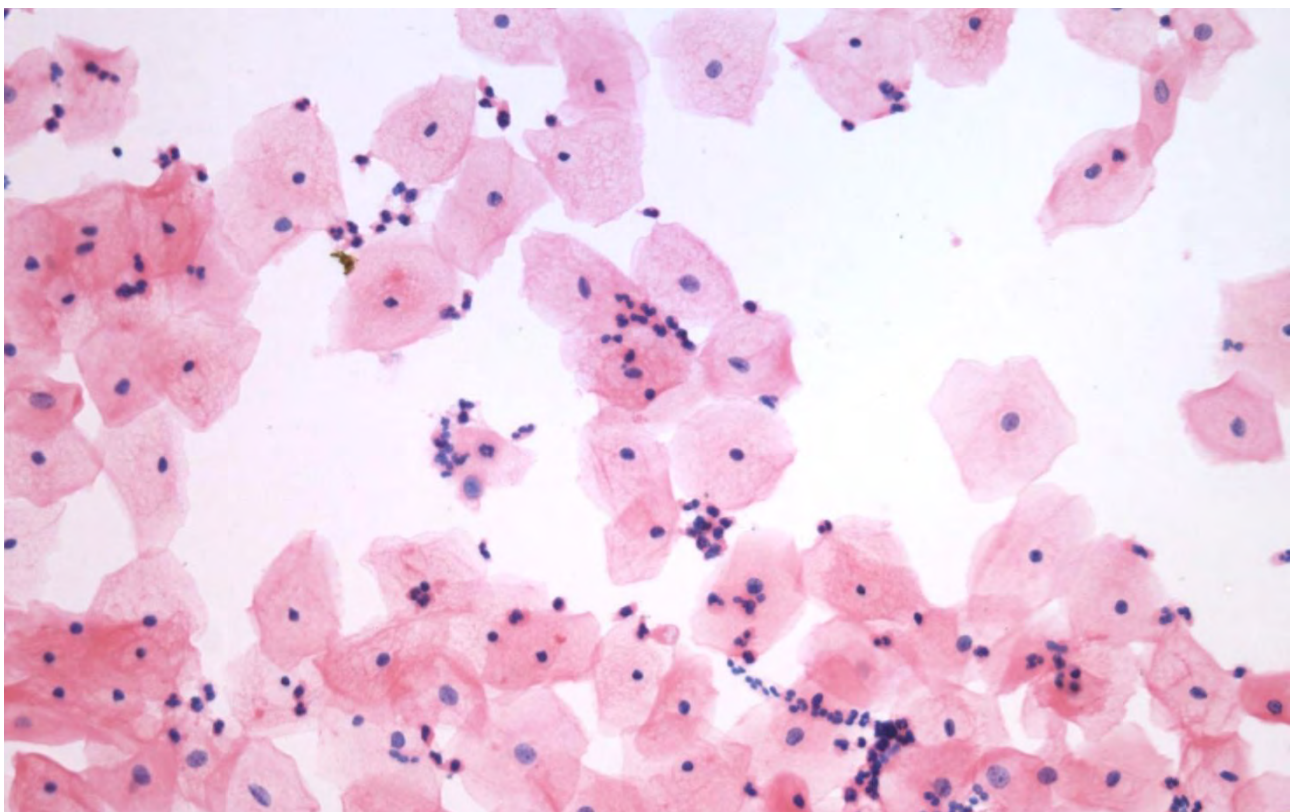
Specification

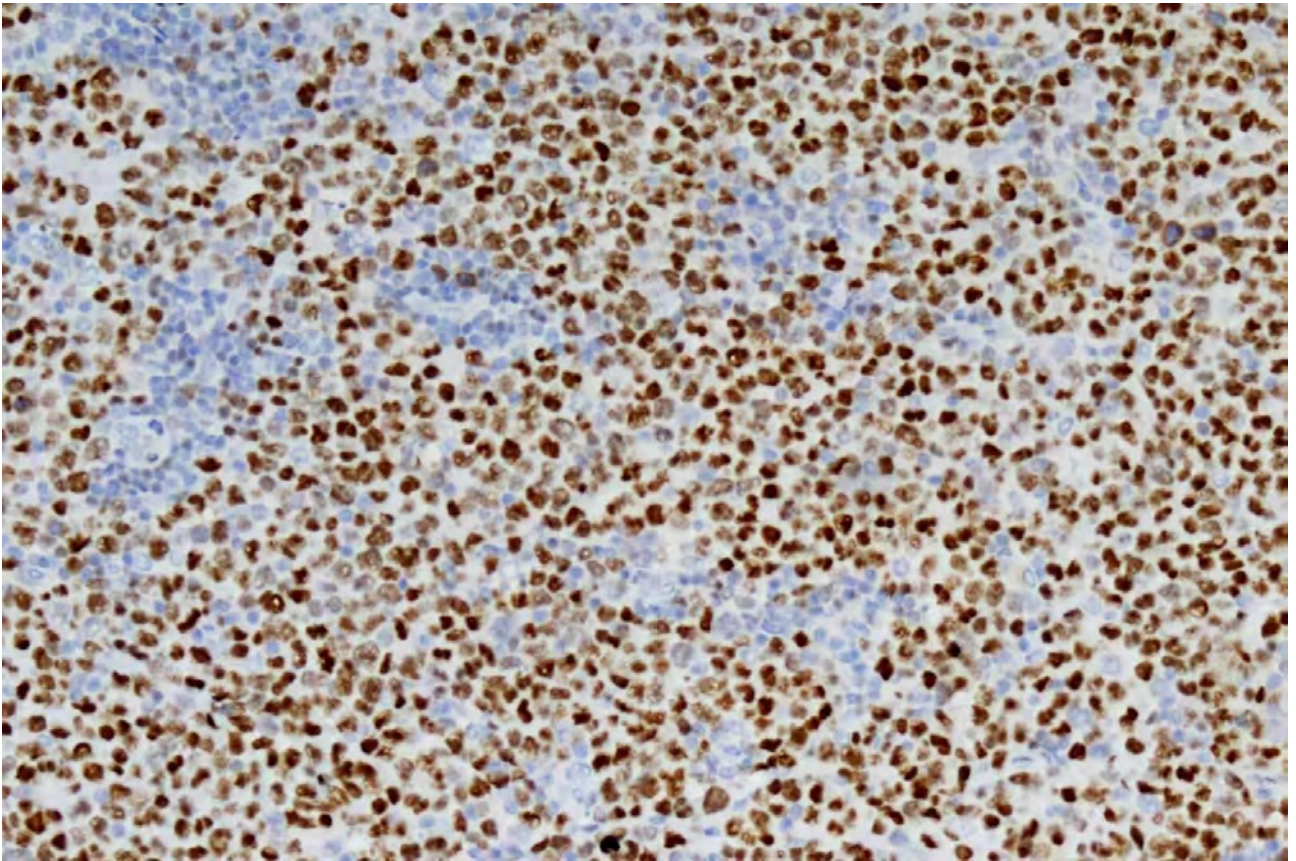
| Item | Specification | BS-2046B | BS-2046T | |
|----------------|---|-----------------------------------|----------|---|
| Optical System | NIS Infinite Optical System | • | • | |
| Eyepiece | WF10x/20mm | • | • | |
| Viewing Head | Seidentopf Binocular Head, inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable | • | | |
| | Seidentopf Trinocular Head, inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable | | • | |
| | Seidentopf Binocular Head with built-in digital camera (1/2.5", 8.3MP, WIFI, USB and HDMI output), inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable | | | |
| Objective | Infinite Plan Achromatic Objectives | 2x, NA=0.05, WD=18.3mm | ○ | ○ |
| | | 4x, NA=0.10, WD=28mm | • | • |
| | | 10x, NA=0.25, WD=10mm | • | • |
| | | 20x, NA=0.40, WD=5.1mm | ○ | ○ |
| | | 40x (S), NA=0.65, WD=0.7mm | • | • |
| | | 50x (S, Oil), NA=0.90, WD=0.12mm | ○ | ○ |
| | | 60x (S), NA=0.80, WD=0.14mm | ○ | ○ |
| | | 100x (S, Oil), NA=1.25, WD=0.18mm | • | • |

| | | | |
|-------------------|---|---|---|
| Nosepiece | Backward Coded Quadruple Nosepiece | ● | ● |
| Stage | Rackless Double Layers Mechanical Stage 180mm×130mm, Moving Range 74mm×30mm | ● | ● |
| Condenser | Abbe Condenser NA1.25 with iris | ● | ● |
| Focusing | Coaxial Coarse and Fine Adjustment, Left hand has Height Limit Lock, Right Hand has Coarse Tension Adjustment Function. Coarse Stroke 37.7mm per Rotation, Fine division 0.002mm, Fine Stroke 0.2mm per Rotation, Moving Range 20mm | ● | ● |
| Illumination | 3W LED Illumination, Brightness Adjustable | ● | ● |
| | Illumination management system, LCD Displays Magnification, Brightness, Color Temperature, etc | ● | ● |
| Other Accessories | Dust Cover | ● | ● |
| | Power Adapter DC5V Input | ● | ● |
| | Instruction Manual | ● | ● |
| | Green Filter | ○ | ○ |
| | Blue/Yellow/Red Filter | ○ | ○ |
| | 0.5× C-mount Adapter | | ○ |
| | 1× C-mount Adapter | | ○ |
| Reliability | Anti-mold Treatment on all the optics | ● | ● |
| Packing | 1pc/carton, 38*52*53cm, gross weight: 8.6kg | ● | ● |

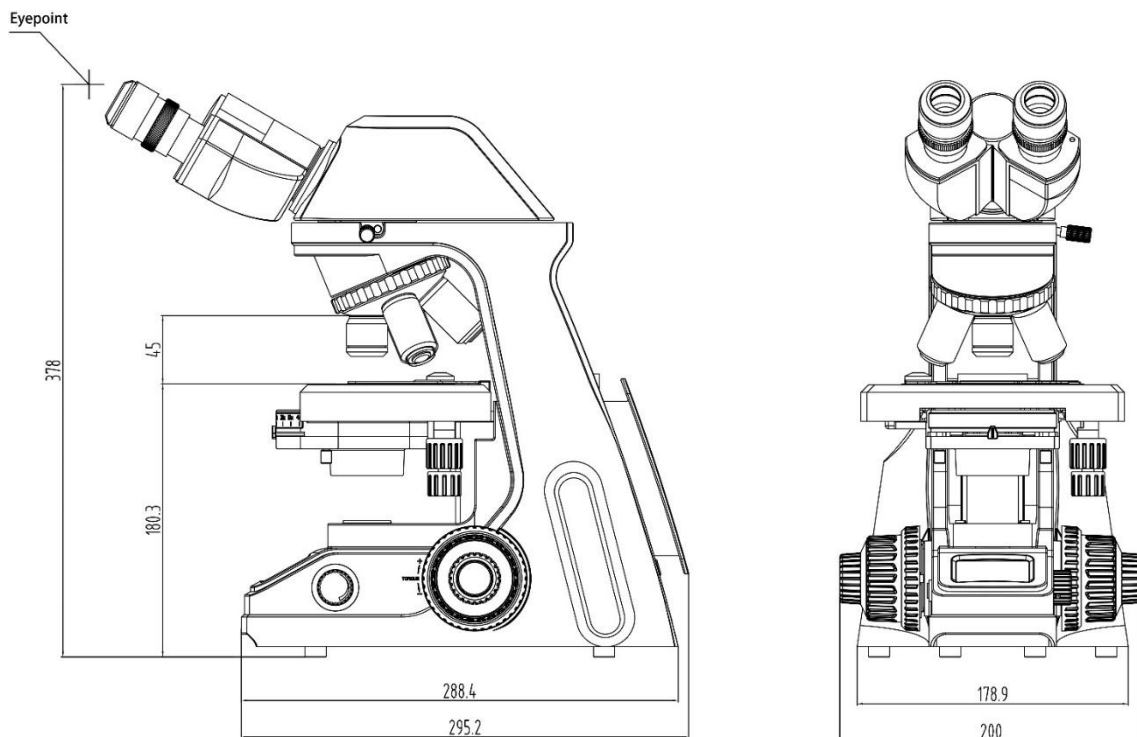
Note: ● Standard Outfit, ○ Optional

Sample Image





Dimension



Unit: mm

25. BS-2047 Biological Microscope



BS-2047B(Right side)



BS-2047B(Left side)



BS-2047T(Right side)



BS-2047T(Back)



BS-2047FT(Right side)

Introduction

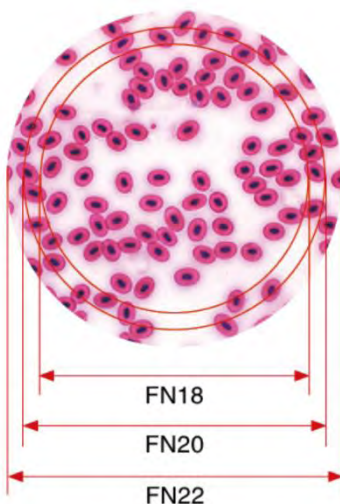
BS-2047 series microscopes are high quality biological microscopes, designed for universities or laboratories of biomedicine and other fields, can be used for teaching experiments and medical testing. Innovation design style, high quality and convenient, to bring you a simple and comfortable use experience. Excellent optical system and complete accessories, you can achieve a variety of observation such as bright field, dark field and phase contrast, to presenting you with wonderful images beyond your expectations. With ECO function, make your work easy and efficient.

Feature

1. Outstanding infinity color corrected optical system

Infinity color corrected system, professional plan achromatic objectives and cutting-edge microscopy technology, provide microscopic images with high resolution, high definition and high contrast.

2. 22mm wide field



BS-2047 biological microscope can achieve a wide field of view range of 22mm under 10X eyepiece, which is more efficient and perfect for observation. Professional high eye point and wide field plan eyepiece can effectively correct edge distortion and chromatic aberration.

3. Rotatable viewing tube



Viewing tube with gemel group 360° rotation function, adjustable pupil distance, eye point height, for different height of the operator to provide a more flexible and comfortable experience.

4. Super large ceramic rackless stage



Double-layer mechanical stage, large arc shape, no angular design. The stage surface adopts ceramic paint process, high hardness, corrosion resistance. Damping-type double clips can be placed two slices at the same time, for inspection and comparative analysis.

5. Super endurance function

The body is equipped with a Type-C interface, which allows the microscope to use a portable battery as a power source. The microscope thus frees itself from dependence on power outlets, enabling easy use outdoors or in power outages. The body comes with a standard USB port, that allows the microscope to charge a phone or tablet.



Charge the microscope by the portable battery.



Charge cell phones and tablets by the microscope.

6. With ECO energy-saving working mode

Build-in ECO function, no operation for 30 minutes, the system will automatically turn off and into the standby mode. Users can automatically wake up the light source by touching the dimming knob.

7. User-friendly design increases comfort and safety.



BS-2047 is equipped with a secure handle for moving. Fully concealed locking design eliminates all sharp edges. Low hand coarse and fine coaxial focus system is ergonomically designed to give the user maximum comfort. There is a storage device at the back of the body to ensure the cleanliness, saving storage space and improving portability.

8. Flexible manipulation of the LED fluorescent module



The innovative reflected LED fluorescence device greatly simplifies the operation process of the fluorescence microscope, making the microscopy experiment more simple, safe and efficient.

With light source brightness adjustment knob according to the characteristics of different specimens to set the appropriate illumination brightness. Rotating bright field / fluorescence switch knob, convenient for users to achieve easy conversion between transmitted light illumination and reflected fluorescence illumination.

9. Body power supply function



Built in 12V 1A transformer can directly charges the fluorescent illumination, easy to connect and safe to use.

10. Simple brightness adjustment knob and easy switching of bright field / fluorescent



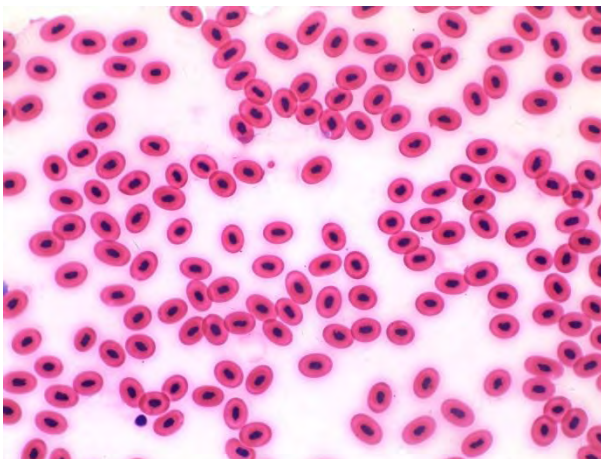
By adjusting the knob, you can adjust the intensity of LED fluorescent lighting to get the required light. According to the application needs, rotate the bright field / fluorescent switch knob, you can instantly achieve two kinds of observation switchover.

Switch to the fluorescence channel and use the LED fluorescence intermediate module to perform fluorescence observation for TB detection or immunofluorescence analysis and in vivo cell observation.

Switching to the bright field channel allows the use of transmitted light for routine pathological testing or laboratory observation.

Application

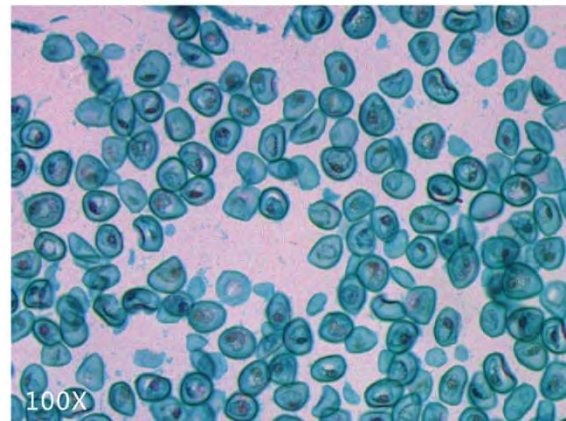
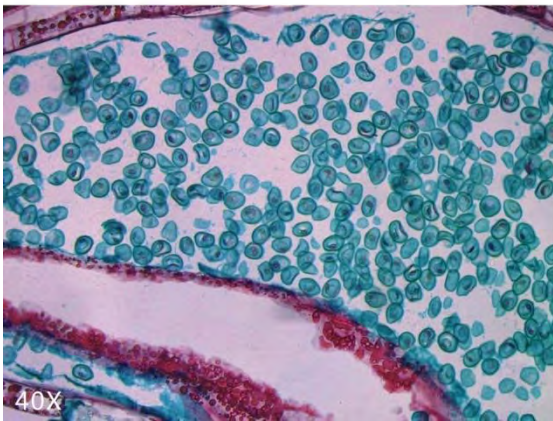
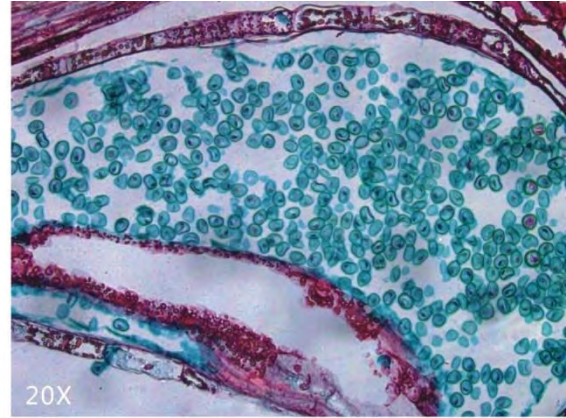
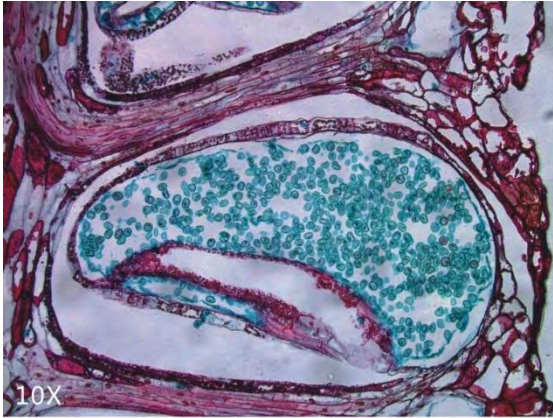
Various observations such as bright field, dark field and phase contrast can meet the needs of routine teaching and experimental observation.



Blood cell 20X bright field

Bright field observation

The professional plan achromatic objective, with the user of the Kohler illumination system, adjusts the image to the best condition by adjusting the aperture diaphragm and the field diaphragm. High-resolution, high-contrast microscopic images can be obtained whether at low or high magnification.

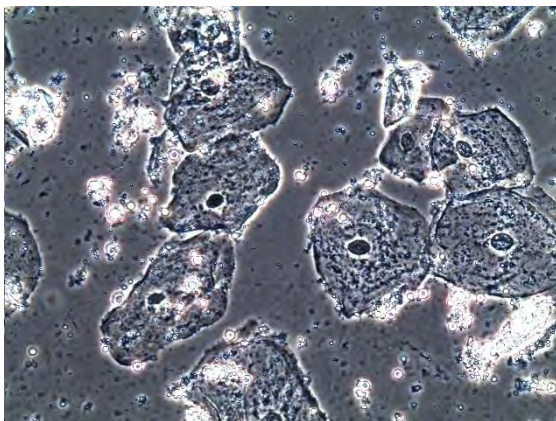


Male tapeworm transverse cleavage bright field

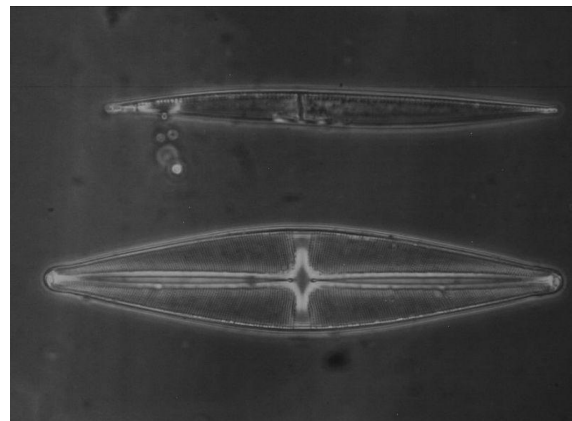


Phase contrast observation

It is suitable for observing samples with high transparency, such as cells, bacteria and other tiny, transparent objects in biological specimens.



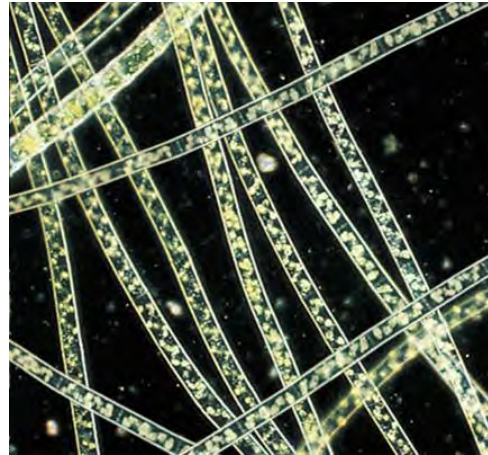
Oral epithelial cells 40X phase contrast



Diatom 20X phase contrast

Dark field observation

Insert the dark field kit into the socket of the condenser and push the dark field diaphragm into the optical path to achieve simple dark field observation. Without replacing the special dark field condenser, dark field observation can be performed on and magnification objective in the range of 4X-40X, which can be used to observe protozoa, bacterial flagella spirochetes and other substances.



Watermill 20X dark field

Specification

BS-2047B, BS-2047T

| Item | Specification | BS-2047B | BS-2047T | |
|----------------|---|--|----------|---|
| Optical System | Infinite Color Corrected Optical System | ● | ● | |
| Viewing Head | 30 degree gemel binocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm | ● | ○ | |
| | 30 degree gemel trinocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm, splitting ratio: 50:50 | ○ | ● | |
| Eyepiece | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter | ● | ● | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter, micrometer and grid plate | ○ | ○ | |
| Objective | Infinity Plan Achromatic Objectives | 2×, NA=0.06, WD=5.00mm (should work with frosted filter) | ○ | ○ |
| | | 4×, NA=0.10, WD=15.00mm | ● | ● |
| | | 10×, NA=0.25, WD=10.80mm | ● | ● |
| | | 20×, NA=0.4, WD=1.50mm | ○ | ○ |
| | | 40×, NA=0.65, WD=0.80mm | ● | ● |

| | | | | |
|----------------------------|--|--------------------------|---|---|
| | | 60×, NA=0.85, WD=0.30mm | ○ | ○ |
| | | 100×, NA=1.25, WD=0.21mm | ● | ● |
| | Infinity Plan Phase Contrast Objective | 10×, NA=0.25, WD=10.80mm | ○ | ○ |
| | | 20×, NA=0.40, WD=1.50mm | ○ | ○ |
| | | 40×, NA=0.65, WD=0.80mm | ○ | ○ |
| | Infinity Plan Semi-Apochromatic Objective | 100×, NA=1.25, WD=0.21mm | ○ | ○ |
| | | 4x, NA=0.13, WD=16.4mm | ○ | ○ |
| | | 10x, NA=0.3, WD=8.1mm | ○ | ○ |
| | | 20x, NA=0.5, WD=2.0mm | ○ | ○ |
| | Other Accessories | 40x, NA=0.75, WD=0.74mm | ○ | ○ |
| 100x, NA=1.28, WD=0.14mm | | ○ | ○ | |
| Nosepiece | Quintuple Nosepiece | ● | ● | |
| Stage | Double layers mechanical ceramic paint stage, 210mm*171mm, precision: 0.1mm (X-axis rackless). Clips for double sliders, moving range: 78mm*51mm. | ● | ● | |
| Condenser | N.A. 1.25 Koehler illuminator condenser (with slot for phase contrast and dark field accessories) with aperture diaphragm. | ● | ● | |
| Focusing | Low hand coarse and fine coaxial focus system, with elastic adjustment device and upper limit device. Coarse adjustment range is 27mm. Fine tuning accuracy is 2 μm. | ● | ● | |
| Transmitted Illumination | 100V -240V external transformer, 3W LED with continuous intensity control, cool color temperature from 4750K to 5500K. Type-C interface allows portable battery as a power source. With ECO function. | ● | ● | |
| | 100V -240V external transformer, 3W LED with continuous intensity control, cool color temperature from 4750K to 5500K. Type-C interface allows portable battery as a power source. With ECO function. With contact type digital power supply device. | ○ | ○ | |
| Microscope Body | For non-fluorescent microscope | ● | ● | |
| Dark Field Accessories | Dark Field Insert Plate (used for 4x-40x objectives) | ○ | ○ | |
| Centering Telescope | Centering Telescope Φ30mm (used with phase contrast plate and objective) | ○ | ○ | |
| Phase Contrast Accessories | Phase Contrast Insert Plate (used for 10x, 40x phase contrast objectives) | ○ | ○ | |
| | Phase Contrast Insert Plate (used for 20x, 100x phase contrast objectives) | ○ | ○ | |
| C-mount Adapter | 0.35× C-mount adapter, adjustable | ○ | ○ | |
| | 0.5× C-mount adapter, adjustable | ○ | ○ | |
| | 0.65× C-mount adapter, adjustable | ○ | ○ | |
| | 1× C-mount adapter, adjustable | ○ | ○ | |
| Other Accessories | Frosted glass accessories (used with 2X Infinity Plan Achromatic Objectives) | ○ | ○ | |
| | Micrometer | ○ | ○ | |
| Other | Internal hexagonal Spanner M4 | ● | ● | |

BS-2047FB, BS-2047FT

| Item | Specification | BS-2047FB | BS-2047FT | |
|--------------------------|---|--|-----------|---|
| Optical System | Infinite Color Corrected Optical System | ● | ● | |
| Viewing Head | 30 degree gemel binocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm | ● | ○ | |
| | 30 degree gemel trinocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm, splitting ratio: 50:50 | ○ | ● | |
| Eyepiece | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter | ● | ● | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter, micrometer and grid plate | ○ | ○ | |
| Objective | Infinity Plan Achromatic Objectives | 2x, NA=0.06, WD=5.00mm (should work with frosted filter) | ○ | ○ |
| | | 4x, NA=0.10, WD=15.00mm | ○ | ○ |
| | | 10x, NA=0.25, WD=10.80mm | ● | ● |
| | | 20x, NA=0.4, WD=1.50mm | ● | ● |
| | | 40x, NA=0.65, WD=0.80mm | ● | ● |
| | | 60x, NA=0.85, WD=0.30mm | ○ | ○ |
| | | 100x, NA=1.25, WD=0.21mm | ● | ● |
| | Infinity Plan Phase Contrast Objective | 10x, NA=0.25, WD=10.80mm | ○ | ○ |
| | | 20x, NA=0.40, WD=1.50mm | ○ | ○ |
| | | 40x, NA=0.65, WD=0.80mm | ○ | ○ |
| | | 100x, NA=1.25, WD=0.21mm | ○ | ○ |
| | Infinity Plan Semi-Apochromatic Objective | 4x, NA=0.13, WD=16.4mm | ○ | ○ |
| | | 10x, NA=0.3, WD=8.1mm | ○ | ○ |
| | | 20x, NA=0.5, WD=2.0mm | ○ | ○ |
| | | 40x, NA=0.75, WD=0.74mm | ○ | ○ |
| 100x, NA=1.28, WD=0.14mm | | ○ | ○ | |
| Nosepiece | Quintuple Nosepiece | ● | ● | |
| Stage | Double layers mechanical ceramic paint stage, 210mm*171mm, precision: 0.1mm (X-axis rackless). Clips for double sliders, moving range: 78mm*51mm. | ● | ● | |
| Condenser | N.A. 1.25 Koehler illuminator condenser (with slot for phase contrast and dark field accessories) with aperture diaphragm. | ● | ● | |

| | | | |
|---------------------------|---|---|---|
| Focusing | Low hand coarse and fine coaxial focus system, with elastic adjustment device and upper limit device. Coarse adjustment range is 27mm. Fine tuning accuracy is 2 μm. | ● | ● |
| Transmitted Illumination | 100V -240V external transformer, 3W LED with continuous intensity control, cool color temperature from 4750K to 5500K. Type-C interface allows portable battery as a power source. With ECO function. | ● | ● |
| Microscope Body | For Fluorescent microscope | ● | ● |
| LED Fluorescent Module | B1 band pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 535/40nm, EX480/30nm, BS505nm | ● | ● |
| | B2 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 535nmLP, EX480/30nm, BS505nm | ○ | ○ |
| | B4 TB - LED fluorescent module for TB, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 455nm, EM: 485nm, EX450/50nm, BS480nm | ○ | ○ |
| | G1 band pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 635/60nm, EX560/40nm, BS600nm | ○ | ○ |
| | UV2 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 385nm, EM: 375/28nm, EX365/10nm, BS415nm | ○ | ○ |
| | UV4 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 365nm, EM: 435nm, EX365/10nm, BS400nm. For TB. | ○ | ○ |
| | LED fluorescent light barrier | ● | ● |
| Dark Field Accessories | Dark Field Insert Plate (used for 4x-40x objectives) | ○ | ○ |
| Centering Telescope | Centering Telescope Φ30mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Accessories | Phase Contrast Insert Plate (used for 10x, 40x phase contrast objectives) | ○ | ○ |
| | Phase Contrast Insert Plate (used for 20x, 100x phase contrast objectives) | ○ | ○ |
| C-mount Adapter | 0.35x C-mount adapter, adjustable | ○ | ○ |
| | 0.5x C-mount adapter, adjustable | ○ | ○ |
| | 0.65x C-mount adapter, adjustable | ○ | ○ |
| | 1x C-mount adapter, adjustable | ○ | ○ |
| Other Accessories | Frosted glass accessories (used with 2X Infinity Plan Achromatic Objectives) | ○ | ○ |
| | Micrometer | ○ | ○ |
| Other | Fluorescent free oil 30ml | ● | ● |
| | Internal hexagonal Spanner M4 | ● | ● |

BS-2047FB(TB), BS-2047FT(TB)

| Item | Specification | BS-2047FB(TB) | BS-2047FT(TB) | |
|--------------------------|---|--|---------------|---|
| Optical System | Infinite Color Corrected Optical System | ● | ● | |
| Viewing Head | 30 degree gemel binocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm | ● | ○ | |
| | 30 degree gemel trinocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm, splitting ratio: 50:50 | ○ | ● | |
| Eyepiece | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter | ● | ● | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter, micrometer and grid plate | ○ | ○ | |
| Objective | Infinity Plan Achromatic Objectives | 2x, NA=0.06, WD=5.00mm (should work with frosted filter) | ○ | ○ |
| | | 4x, NA=0.10, WD=15.00mm | ○ | ○ |
| | | 10x, NA=0.25, WD=10.80mm | ● | ● |
| | | 20x, NA=0.4, WD=1.50mm | ● | ● |
| | | 40x, NA=0.65, WD=0.80mm | ● | ● |
| | | 60x, NA=0.85, WD=0.30mm | ○ | ○ |
| | | 100x, NA=1.25, WD=0.21mm | ● | ● |
| | Infinity Plan Phase Contrast Objective | 10x, NA=0.25, WD=10.80mm | ○ | ○ |
| | | 20x, NA=0.40, WD=1.50mm | ○ | ○ |
| | | 40x, NA=0.65, WD=0.80mm | ○ | ○ |
| | | 100x, NA=1.25, WD=0.21mm | ○ | ○ |
| | Infinity Plan Semi-Apochromatic Objective | 4x, NA=0.13, WD=16.4mm | ○ | ○ |
| | | 10x, NA=0.3, WD=8.1mm | ○ | ○ |
| | | 20x, NA=0.5, WD=2.0mm | ○ | ○ |
| | | 40x, NA=0.75, WD=0.74mm | ○ | ○ |
| 100x, NA=1.28, WD=0.14mm | | ○ | ○ | |
| Nosepiece | Quintuple Nosepiece | ● | ● | |
| Stage | Double layers mechanical ceramic paint stage, 210mm*171mm, precision: 0.1mm (X-axis rackless). Clips for double sliders, moving range: 78mm*51mm. | ● | ● | |
| Condenser | N.A. 1.25 Koehler illuminator condenser (with slot for phase contrast and dark field accessories) with aperture diaphragm. | ● | ● | |

| | | | |
|---------------------------|---|---|---|
| Focusing | Low hand coarse and fine coaxial focus system, with elastic adjustment device and upper limit device. Coarse adjustment range is 27mm. Fine tuning accuracy is 2 μ m. | ● | ● |
| Transmitted Illumination | 100V -240V external transformer, 3W LED with continuous intensity control, cool color temperature from 4750K to 5500K. Type-C interface allows portable battery as a power source. With ECO function. | ● | ● |
| Microscope Body | For Fluorescent microscope | ● | ● |
| LED Fluorescent Module | B1 band pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 535/40nm, EX480/30nm, BS505nm | ○ | ○ |
| | B2 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 535nmLP, EX480/30nm, BS505nm | ○ | ○ |
| | B4 TB - LED fluorescent module for TB, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 455nm, EM: 485nm, EX450/50nm, BS480nm | ● | ● |
| | G1 band pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 635/60nm, EX560/40nm, BS600nm | ○ | ○ |
| | UV2 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 385nm, EM: 375/28nm, EX365/10nm, BS415nm | ○ | ○ |
| | UV4 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 365nm, EM: 435nm, EX365/10nm, BS400nm. For TB. | ○ | ○ |
| | LED fluorescent light barrier | ● | ● |
| Dark Field Accessories | Dark Field Insert Plate (used for 4x-40x objectives) | ○ | ○ |
| Centering Telescope | Centering Telescope Φ 30mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Accessories | Phase Contrast Insert Plate (used for 10x, 40x phase contrast objectives) | ○ | ○ |
| | Phase Contrast Insert Plate (used for 20x, 100x phase contrast objectives) | ○ | ○ |
| C-mount Adapter | 0.35x C-mount adapter, adjustable | ○ | ○ |
| | 0.5x C-mount adapter, adjustable | ○ | ○ |
| | 0.65x C-mount adapter, adjustable | ○ | ○ |
| | 1x C-mount adapter, adjustable | ○ | ○ |
| Other Accessories | Frosted glass accessories (used with 2X Infinity Plan Achromatic Objectives) | ○ | ○ |
| | Micrometer | ○ | ○ |
| Other | Fluorescent free oil 30ml | ● | ● |
| | Internal hexagonal Spanner M4 | ● | ● |

Note: ● Standard Outfit, ○ Optional

Accessories

1. Trinocular tube



The trinocular tube can be equipped with a camera device which can output the image of binocular observation to a monitor or computer for image analysis, processing, preservation and transmission.

2. Photograph accessories



Using the special C-mount and photo cube, it can be connected to a digital camera to quickly take pictures and acquire images.

3. Objectives



Infinity plan semi-apochromatic objective

Infinity plan semi-apochromatic objective designed for fluorescence observation. The image is vivid and clear, the background is pure black, and the UV fluorescence has outstanding performance, which is the best choice for professional fluorescence observation of various cells and pathological sections.



Infinity plan achromatic objective

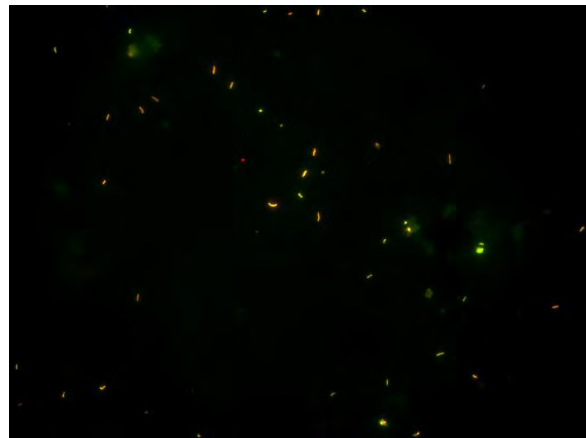
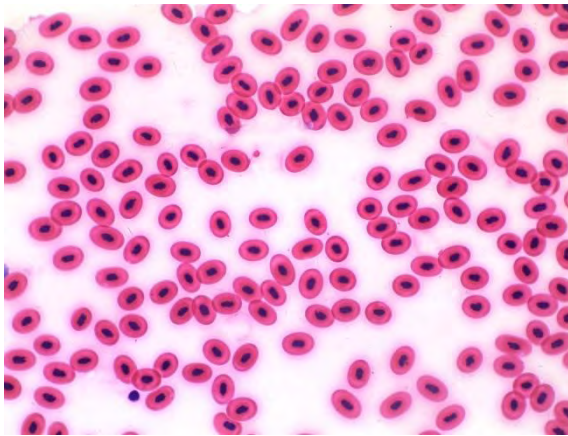
Infinity plan achromatic objectives improve the plan and contrast, perfect correction of all kinds of chromatic aberration. Large numerical aperture design provides high definition and high contrast microscopic images.



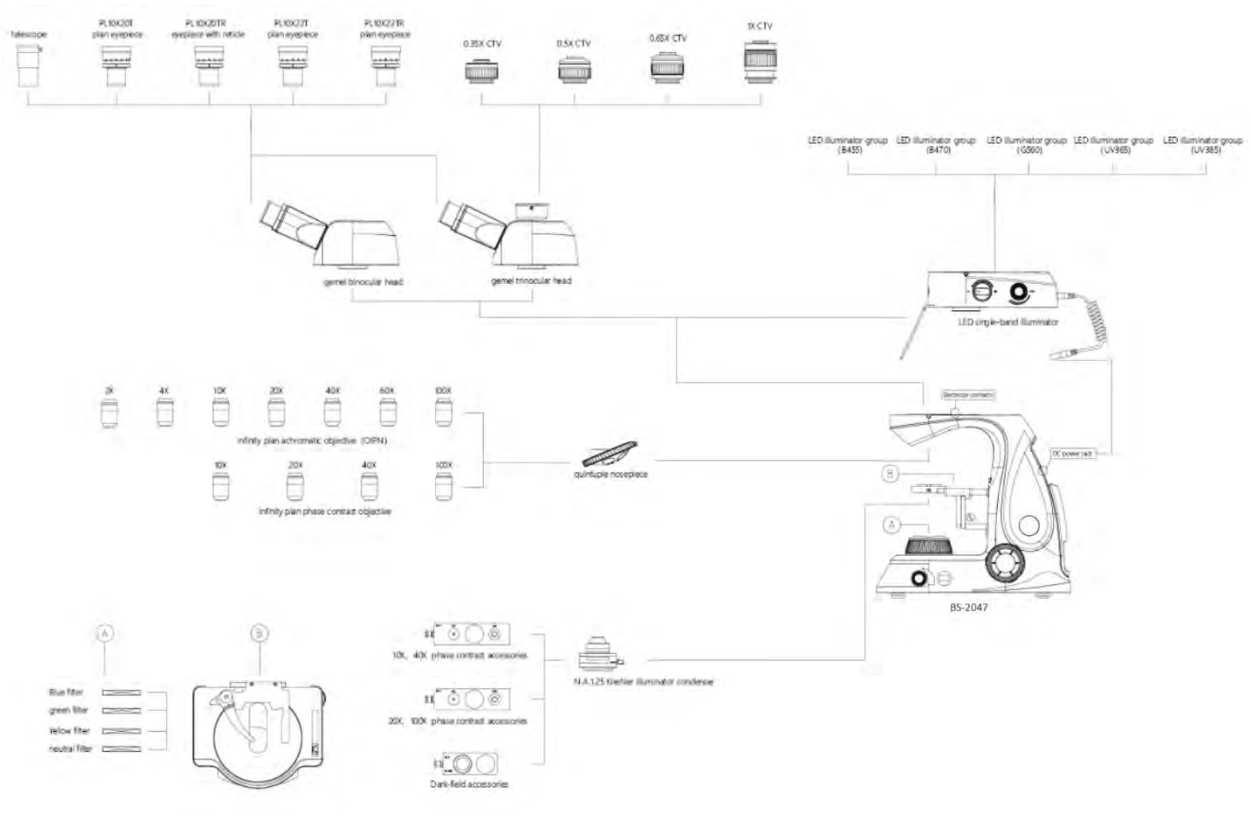
Infinity plan achromatic phase contrast objective

Infinity plan achromatic phase contrast objective adds phase contrast observation function on the basis of bright field observation, providing high definition, high contrast microscopic images. It is especially suitable for the observation of colorless transparent or light-colored cells.

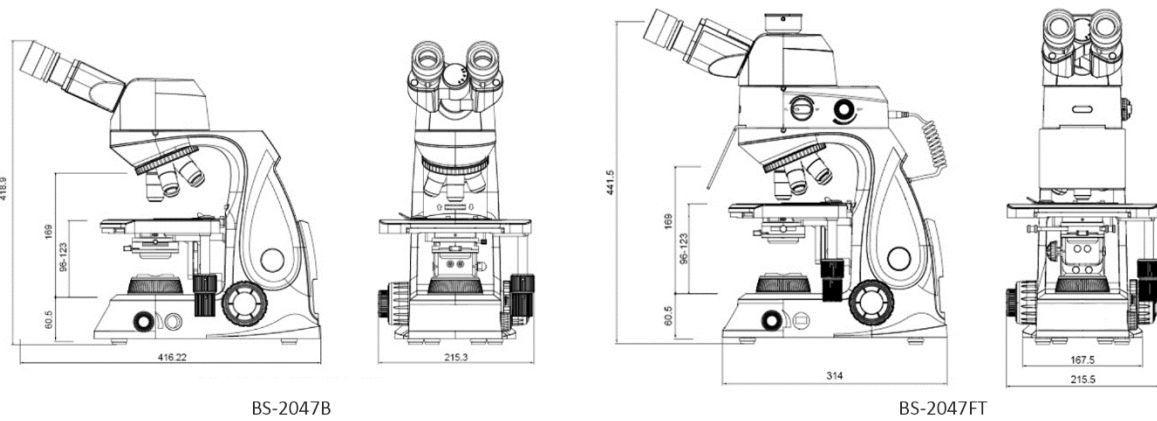
Sample Image



System Diagram



Dimension



Unit:mm

26. BS-2048 Biological Microscope



BS-2048B(Right side)



BS-2048B(Left side)



BS-2048T(Right side)



BS-2048T(Left side)



BS-2048FT(Right side)



BS-2048FT(Back)

Introduction

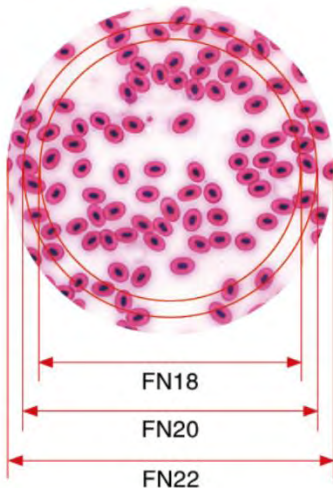
BS-2048 series microscopes are high quality biological microscopes, designed for universities or laboratories of biomedicine and other fields, can be used for teaching experiments and medical testing. Innovation design style, high quality and convenient, to bring you a simple and comfortable use experience. Excellent optical system and complete accessories, you can achieve a variety of observation such as bright and dark field and phase contrast, to presenting you with wonderful images beyond your expectations. With intelligent lighting management system and ECO function, make you work easy and efficient.

Feature

1. Outstanding infinity color corrected optical system

Infinity color corrected system, professional plan achromatic objectives and cutting-edge microscopy technology, provide microscopic images with high resolution, high definition and high contrast.

2. 22mm wide field



BS-2048 biological microscope can achieve a wide field of view range of 22mm under 10X eyepiece, which is more efficient and perfect for observation. Professional high eye point and wide field plan eyepiece can effectively correct edge distortion and chromatic aberration.

3. Rotatable viewing tube



Viewing tube with gemel group 360° rotation function, adjustable pupil distance, eye point height, for different height of the operator to provide a more flexible and comfortable experience.

4. Super large ceramic rackless stage



Double-layer mechanical stage, large arc shape, no angular design. The stage surface adopts ceramic paint process, high hardness, corrosion resistance. Damping-type double clips can be placed two slices at the same time, for inspection and comparative analysis.

5. Super endurance function

The body is equipped with a Type-C interface, which allows the microscope to use a portable battery as a power source. The microscope thus frees itself from dependence on power outlets, enabling easy use outdoors or in power outages. The body comes with a standard USB port, that allows the microscope to charge a phone or tablet.



Charge the microscope by the portable battery.



Charge cell phones and tablets by the microscope.

6. With ECO energy-saving working mode

Build-in ECO function, no operation for 30 minutes, the system will automatically turn off and into the standby mode. Users can automatically wake up the light source by touching the dimming knob.



BS-2048 has a front LCD display, which displays the current lighting brightness, color temperature and magnification, so that the user can intuitively judge the working status and improve working efficiency.

At the same time, BS-2048 has the ECO function which gives a prompt whether to hibernate. Users can manually cancel, saving energy and improving user experience.

The hibernation waiting time is 5-60 minutes.



ECO duration, lighting brightness, objective magnification, and color temperature are displayed on the working screen.



Long press the dimming hand wheel to adjust the color temperature interface 3000-7000K.



Short press the dimmer hand wheel to enter ECO mode. You can set the ECO duration.



In standby mode, "Coffee cup" will appear one minute ahead of time to remind you of standby state.

7. User-friendly design increases comfort and safety.



BS-2048 is equipped with a secure handle for moving. Fully concealed locking design eliminates all sharp edges. Low hand coarse and fine coaxial focus system is ergonomically designed to give the user maximum comfort. There is a storage device at the back of the body to ensure the cleanliness, saving storage space and improving portability.

8. Brightness memory function



BS-2048 can be equipped with code nosepiece, able to remember the illumination brightness of each objective. Users can freely adjust the light source brightness of each objective and the system automatically remembers, not only to improve efficiency, but also to reduce visual fatigue.

9. Flexible manipulation of the LED fluorescent module



The innovative reflected LED fluorescence device greatly simplifies the operation process of the fluorescence microscope, making the microscopy experiment more simple, safe and efficient.

With light source brightness adjustment knob according to the characteristics of different specimens to set the appropriate illumination brightness. Rotating bright field / fluorescence switch knob, convenient for users to achieve easy conversion between transmitted light illumination and reflected fluorescence illumination.

10. Simple brightness adjustment knob and easy switching of bright field / fluorescent



By adjusting the knob, you can adjust the intensity of LED fluorescent lighting to get the required light.

According to the application needs, rotate the bright field / fluorescent switch knob, you can instantly achieve two kinds of observation switchover.

Switch to the fluorescence channel and use the LED fluorescence intermediate module to perform fluorescence observation for TB detection or immunofluorescence analysis and in vivo cell observation.

Switching to the bright field channel allows the use of transmitted light for routine pathological testing or laboratory observation.

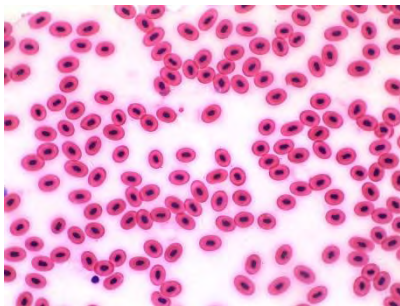
11. Body power supply function



Built in 12V 1A transformer can directly charges the fluorescent illumination, easy to connect and safe to use.

Application

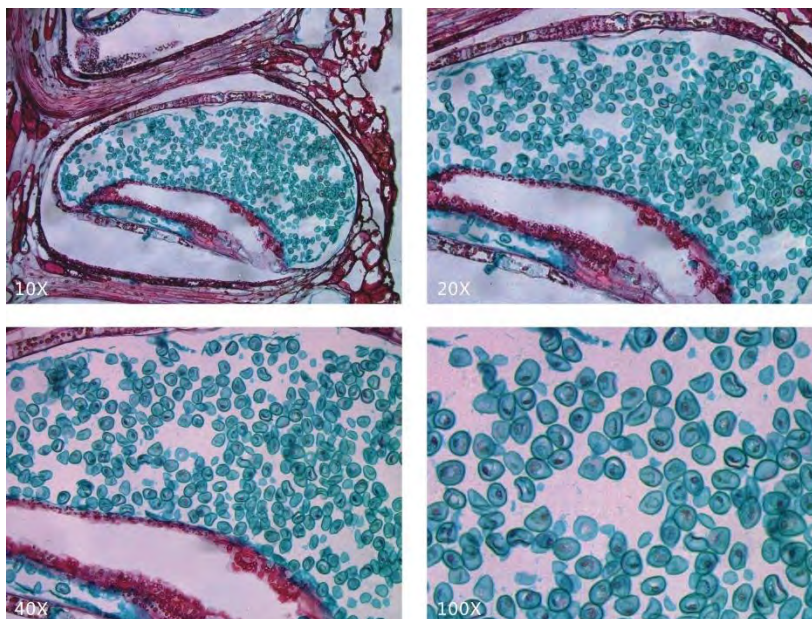
Various observations such as bright field, dark field and phase contrast can meet the needs of routine teaching and experimental observation.



Blood cell 20X bright field

Bright field observation

The professional plan achromatic objective, with the user of the Kohler illumination system, adjusts the image to the best condition by adjusting the aperture diaphragm and the field diaphragm. High-resolution, high-contrast microscopic images can be obtained whether at low or high magnification.

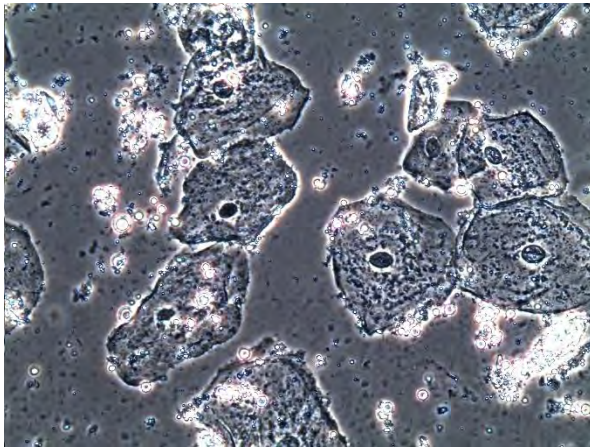


Male tapeworm transverse cleavage bright field

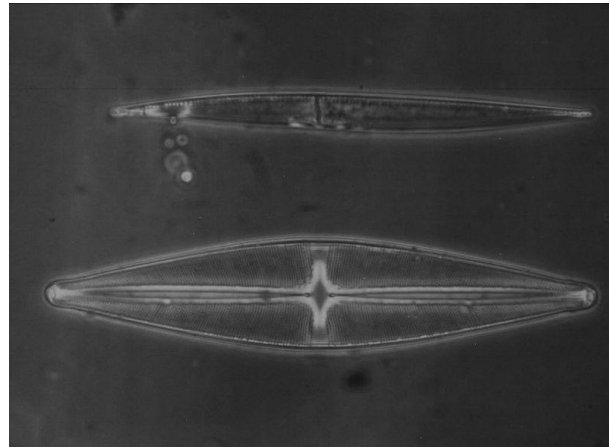


Phase contrast observation

It is suitable for observing samples with high transparency, such as cells, bacteria and other tiny, transparent objects in biological specimens.



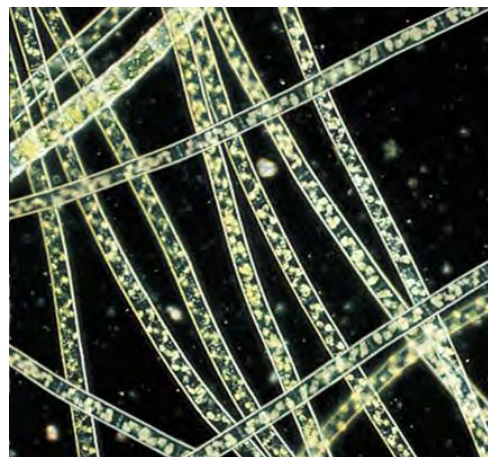
Oral epithelial cells 40X phase contrast



Diatom 20X phase contrast

Dark field observation

Insert the dark field kit into the socket of the condenser and push the dark field diaphragm into the optical path to achieve simple dark field observation. Without replacing the special dark field condenser, dark field observation can be performed on and magnification objective in the range of 4X-40X, which can be used to observe protozoa, bacterial flagella spirochetes and other substances.



Watermill 20X dark field

Specification

BS-2048B, BS-2048T

| Item | Specification | BS-2048B | BS-2048T | |
|--------------------------|---|--|----------|---|
| Optical System | Infinite Color Corrected Optical System | ● | ● | |
| Viewing Head | 30 degree gemel binocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm | ● | ○ | |
| | 30 degree gemel trinocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm, splitting ratio: 50:50 | ○ | ● | |
| Eyepiece | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter | ● | ● | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter, micrometer and grid plate | ○ | ○ | |
| Objective | Infinity Plan Achromatic Objectives | 2×, NA=0.06, WD=5.00mm (should work with frosted filter) | ○ | ○ |
| | | 4×, NA=0.10, WD=15.00mm | ● | ● |
| | | 10×, NA=0.25, WD=10.80mm | ● | ● |
| | | 20×, NA=0.4, WD=1.50mm | ○ | ○ |
| | | 40×, NA=0.65, WD=0.80mm | ● | ● |
| | | 60×, NA=0.85, WD=0.30mm | ○ | ○ |
| | | 100×, NA=1.25, WD=0.21mm | ● | ● |
| | Infinity Plan Phase Contrast Objective | 10×, NA=0.25, WD=10.80mm | ○ | ○ |
| | | 20×, NA=0.40, WD=1.50mm | ○ | ○ |
| | | 40×, NA=0.65, WD=0.80mm | ○ | ○ |
| | | 100×, NA=1.25, WD=0.21mm | ○ | ○ |
| | Infinity Plan Semi-Apochromatic Objective | 4x, NA=0.13, WD=16.4mm | ○ | ○ |
| | | 10x, NA=0.3, WD=8.1mm | ○ | ○ |
| | | 20x, NA=0.5, WD=2.0mm | ○ | ○ |
| | | 40x, NA=0.75, WD=0.74mm | ○ | ○ |
| 100x, NA=1.28, WD=0.14mm | | ○ | ○ | |
| Nosepiece | Quintuple Nosepiece with Brightness Memory | ● | ● | |
| Stage | Double layers mechanical ceramic paint stage, 210mm*171mm, precision: 0.1mm (X-axis rackless). Clips for double sliders, moving range: 78mm*51mm. | ● | ● | |
| Condenser | N.A. 1.25 Koehler illuminator condenser (with slot for phase contrast and dark field accessories) with aperture diaphragm. | ● | ● | |

| | | | |
|---------------------------|---|---|---|
| Focusing | Low hand coarse and fine coaxial focus system, with elastic adjustment device and upper limit device. Coarse adjustment range is 27mm. Fine tuning accuracy is 2 μm . | • | • |
| Transmitted Illumination | 100V -240V external transformer, 5W LED with continuous intensity control. Type-C interface allows portable battery as a power source. With ECO function, LCD display and color temperature adjustment function, the adjustment range: 3000K-7000K. | • | • |
| Microscope Body | For non-fluorescent microscope | • | • |
| Dark Field Accessories | Dark Field Insert Plate (used for 4x-40x objectives) | ○ | ○ |
| Centering Telescope | Centering Telescope Φ 30mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Accessories | Phase Contrast Insert Plate (used for 10x, 40x phase contrast objectives) | ○ | ○ |
| | Phase Contrast Insert Plate (used for 20x, 100x phase contrast objectives) | ○ | ○ |
| C-mount Adapter | 0.35x C-mount adapter, adjustable | ○ | ○ |
| | 0.5x C-mount adapter, adjustable | ○ | ○ |
| | 0.65x C-mount adapter, adjustable | ○ | ○ |
| | 1x C-mount adapter, adjustable | ○ | ○ |
| Other Accessories | Frosted glass accessories (used with 2X Infinity Plan Achromatic Objectives) | ○ | ○ |
| | Micrometer | ○ | ○ |
| Other | Internal hexagonal Spanner M4 | • | • |

BS-2048FB, BS-2048FT

| Item | Specification | BS-2048FB | BS-2048FT |
|----------------|---|-----------|-----------|
| Optical System | Infinite Color Corrected Optical System | • | • |
| Viewing Head | 30 degree gemel binocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm | • | ○ |
| | 30 degree gemel trinocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm, splitting ratio: 50:50 | ○ | • |
| Eyepiece | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter | ○ | ○ |
| | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter and micrometer | ○ | ○ |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter | • | • |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter and micrometer | ○ | ○ |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter, micrometer and grid plate | ○ | ○ |
| Objective | Infinity Plan Achromatic Objectives | | |
| | 2x, NA=0.06, WD=5.00mm (should work with frosted filter) | ○ | ○ |
| | 4x, NA=0.10, WD=15.00mm | ○ | ○ |
| | 10x, NA=0.25, WD=10.80mm | • | • |

| | | | | |
|--------------------------|---|--------------------------|---|---|
| | | 20x, NA=0.4, WD=1.50mm | ● | ● |
| | | 40x, NA=0.65, WD=0.80mm | ● | ● |
| | | 60x, NA=0.85, WD=0.30mm | ○ | ○ |
| | | 100x, NA=1.25, WD=0.21mm | ● | ● |
| | Infinity Plan Phase Contrast Objective | 10x, NA=0.25, WD=10.80mm | ○ | ○ |
| | | 20x, NA=0.40, WD=1.50mm | ○ | ○ |
| | | 40x, NA=0.65, WD=0.80mm | ○ | ○ |
| | | 100x, NA=1.25, WD=0.21mm | ○ | ○ |
| | Infinity Plan Semi-Apochromatic Objective | 4x, NA=0.13, WD=16.4mm | ○ | ○ |
| | | 10x, NA=0.3, WD=8.1mm | ○ | ○ |
| | | 20x, NA=0.5, WD=2.0mm | ○ | ○ |
| | | 40x, NA=0.75, WD=0.74mm | ○ | ○ |
| 100x, NA=1.28, WD=0.14mm | | ○ | ○ | |
| Nosepiece | Quintuple Nosepiece with Brightness Memory | | ● | ● |
| Stage | Double layers mechanical ceramic paint stage, 210mm*171mm, precision: 0.1mm (X-axis rackless). Clips for double sliders, moving range: 78mm*51mm. | | ● | ● |
| Condenser | N.A. 1.25 Koehler illuminator condenser (with slot for phase contrast and dark field accessories) with aperture diaphragm. | | ● | ● |
| Focusing | Low hand coarse and fine coaxial focus system, with elastic adjustment device and upper limit device. Coarse adjustment range is 27mm. Fine tuning accuracy is 2 μm. | | ● | ● |
| Transmitted Illumination | 100V -240V external transformer, 5W LED with continuous intensity control. Type-C interface allows portable battery as a power source. With ECO function, LCD display and color temperature adjustment function, the adjustment range: 3000K-7000K. | | ● | ● |
| Microscope Body | For Fluorescent microscope | | ● | ● |
| LED Fluorescent Module | B1 band pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 535/40nm, EX480/30nm, BS505nm | | ● | ● |
| | B2 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 535nmLP, EX480/30nm, BS505nm | | ○ | ○ |
| | B4 TB - LED fluorescent module for TB, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 455nm, EM: 485nm, EX450/50nm, BS480nm | | ○ | ○ |
| | G1 band pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 635/60nm, EX560/40nm, BS600nm | | ○ | ○ |
| | UV2 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 385nm, EM: 375/28nm, EX365/10nm, BS415nm | | ○ | ○ |
| | UV4 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 365nm, EM: 435nm, EX365/10nm, | | ○ | ○ |

| | | | |
|---------------------------|--|---|---|
| | BS400nm. | | |
| | LED fluorescent light barrier | ● | ● |
| Dark Field Accessories | Dark Field Insert Plate (used for 4x-40x objectives) | ○ | ○ |
| Centering Telescope | Centering Telescope Φ 30mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contact Accessories | Phase Contrast Insert Plate (used for 10x, 40x phase contrast objectives) | ○ | ○ |
| | Phase Contrast Insert Plate (used for 20x, 100x phase contrast objectives) | ○ | ○ |
| C-mount Adapter | 0.35x C-mount adapter, adjustable | ○ | ○ |
| | 0.5x C-mount adapter, adjustable | ○ | ○ |
| | 0.65x C-mount adapter, adjustable | ○ | ○ |
| | 1x C-mount adapter, adjustable | ○ | ○ |
| Other Accessories | Frosted glass accessories (used with 2X Infinity Plan Achromatic Objectives) | ○ | ○ |
| | Micrometer | ○ | ○ |
| Other | Fluorescent free oil 30ml | ● | ● |
| | Internal hexagonal Spanner M4 | ● | ● |

BS-2048FB(TB), BS-2048FT(TB)

| Item | Specification | BS-2048FB(TB) | BS-2048FT(TB) | |
|----------------|---|--|---------------|---|
| Optical System | Infinite Color Corrected Optical System | ● | ● | |
| Viewing Head | 30 degree gemel binocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm | ● | ○ | |
| | 30 degree gemel trinocular tube, 360° rotatable, adjustable eye-point height from 375mm to 428.5mm, fixed eyepiece tube, interpupillary distance: 48-76mm, splitting ratio: 50:50 | ○ | ● | |
| Eyepiece | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/20mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter | ● | ● | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter and micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter, micrometer and grid plate | ○ | ○ | |
| Objective | Infinity Plan Achromatic Objectives | 2x, NA=0.06, WD=5.00mm (should work with frosted filter) | ○ | ○ |
| | | 4x, NA=0.10, WD=15.00mm | ○ | ○ |
| | | 10x, NA=0.25, WD=10.80mm | ● | ● |
| | | 20x, NA=0.4, WD=1.50mm | ● | ● |
| | | 40x, NA=0.65, WD=0.80mm | ● | ● |
| | | 60x, NA=0.85, WD=0.30mm | ○ | ○ |

| | | | | |
|--------------------------|---|---|------------------------|---|
| | | 100x, NA=1.25, WD=0.21mm | ● | ● |
| | Infinity Plan Phase Contrast Objective | 10x, NA=0.25, WD=10.80mm | ○ | ○ |
| | | 20x, NA=0.40, WD=1.50mm | ○ | ○ |
| | | 40x, NA=0.65, WD=0.80mm | ○ | ○ |
| | | 100x, NA=1.25, WD=0.21mm | ○ | ○ |
| | | Infinity Plan Semi-Apochromatic Objective | 4x, NA=0.13, WD=16.4mm | ○ |
| | 10x, NA=0.3, WD=8.1mm | | ○ | ○ |
| | 20x, NA=0.5, WD=2.0mm | | ○ | ○ |
| | 40x, NA=0.75, WD=0.74mm | | ○ | ○ |
| | 100x, NA=1.28, WD=0.14mm | | ○ | ○ |
| Nosepiece | Quintuple Nosepiece with Brightness Memory | | ● | ● |
| Stage | Double layers mechanical ceramic paint stage, 210mm*171mm, precision: 0.1mm (X-axis rackless). Clips for double sliders, moving range: 78mm*51mm. | | ● | ● |
| Condenser | N.A. 1.25 Koehler illuminator condenser (with slot for phase contrast and dark field accessories) with aperture diaphragm. | | ● | ● |
| Focusing | Low hand coarse and fine coaxial focus system, with elastic adjustment device and upper limit device. Coarse adjustment range is 27mm. Fine tuning accuracy is 2 μm. | | ● | ● |
| Transmitted Illumination | 100V -240V external transformer, 5W LED with continuous intensity control. Type-C interface allows portable battery as a power source. With ECO function, LCD display and color temperature adjustment function, the adjustment range: 3000K-7000K. | | ● | ● |
| Microscope Body | For Fluorescent microscope | | ● | ● |
| LED Fluorescent Module | B1 band pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 535/40nm, EX480/30nm, BS505nm | | ○ | ○ |
| | B2 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 535nmLP, EX480/30nm, BS505nm | | ○ | ○ |
| | B4 TB - LED fluorescent module for TB, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 455nm, EM: 485nm, EX450/50nm, BS480nm | | ● | ● |
| | G1 band pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 470nm, EM: 635/60nm, EX560/40nm, BS600nm | | ○ | ○ |
| | UV2 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 385nm, EM: 375/28nm, EX365/10nm, BS415nm | | ○ | ○ |
| | UV4 long pass filter LED fluorescent module, with intensity adjust knob, BF/FL switching knob and eye guard. LED 5WLED, 365nm, EM: 435nm, EX365/10nm, BS400nm. | | ○ | ○ |
| | LED fluorescent light barrier | | ● | ● |

| | | | |
|----------------------------|--|---|---|
| Dark Field Accessories | Dark Field Insert Plate (used for 4x-40x objectives) | ○ | ○ |
| Centering Telescope | Centering Telescope Φ 30mm (used with phase contrast plate and objective) | ○ | ○ |
| Phase Contrast Accessories | Phase Contrast Insert Plate (used for 10x, 40x phase contrast objectives) | ○ | ○ |
| | Phase Contrast Insert Plate (used for 20x, 100x phase contrast objectives) | ○ | ○ |
| C-mount Adapter | 0.35x C-mount adapter, adjustable | ○ | ○ |
| | 0.5x C-mount adapter, adjustable | ○ | ○ |
| | 0.65x C-mount adapter, adjustable | ○ | ○ |
| | 1x C-mount adapter, adjustable | ○ | ○ |
| Other Accessories | Frosted glass accessories (used with 2X Infinity Plan Achromatic Objectives) | ○ | ○ |
| | Micrometer | ○ | ○ |
| Other | Fluorescent free oil 30ml | ● | ● |
| | Internal hexagonal Spanner M4 | ● | ● |

Note: ● Standard Outfit, ○ Optional

Accessories

1. Trinocular tube



The trinocular tube can be equipped with a camera device which can output the image of binocular observation to a monitor or computer for image analysis, processing, preservation and transmission.

2. Photograph accessories



Using the special C-mount and photo cube, it can be connected to a digital camera to quickly take pictures and acquire images.

3. Objectives



Infinity plan semi-apochromatic objective

Infinity plan semi-apochromatic objective designed for fluorescence observation. The image is vivid and clear, the background is pure black, and the UV fluorescence has outstanding performance, which is the best choice for professional fluorescence observation of various cells and pathological sections.



Infinity plan achromatic objective

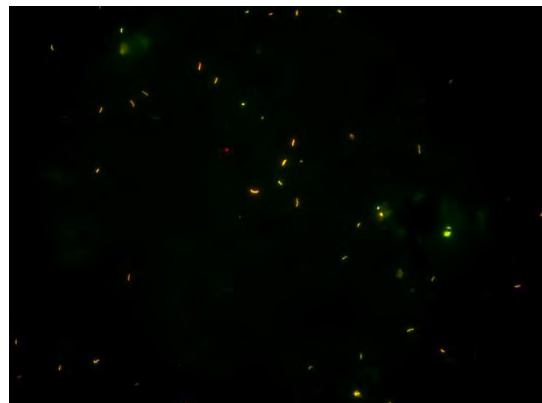
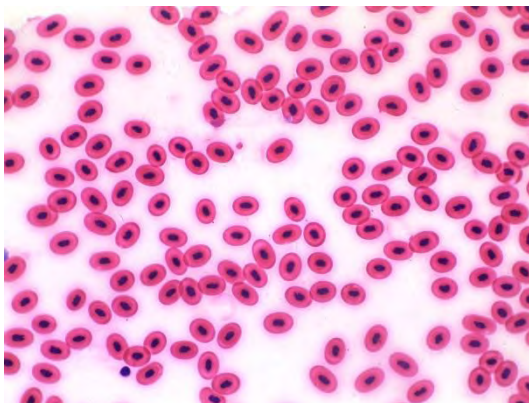
Infinity plan achromatic objectives improve the plan and contrast, perfect correction of all kinds of chromatic aberration. Large numerical aperture design provides high definition and high contrast microscopic images.



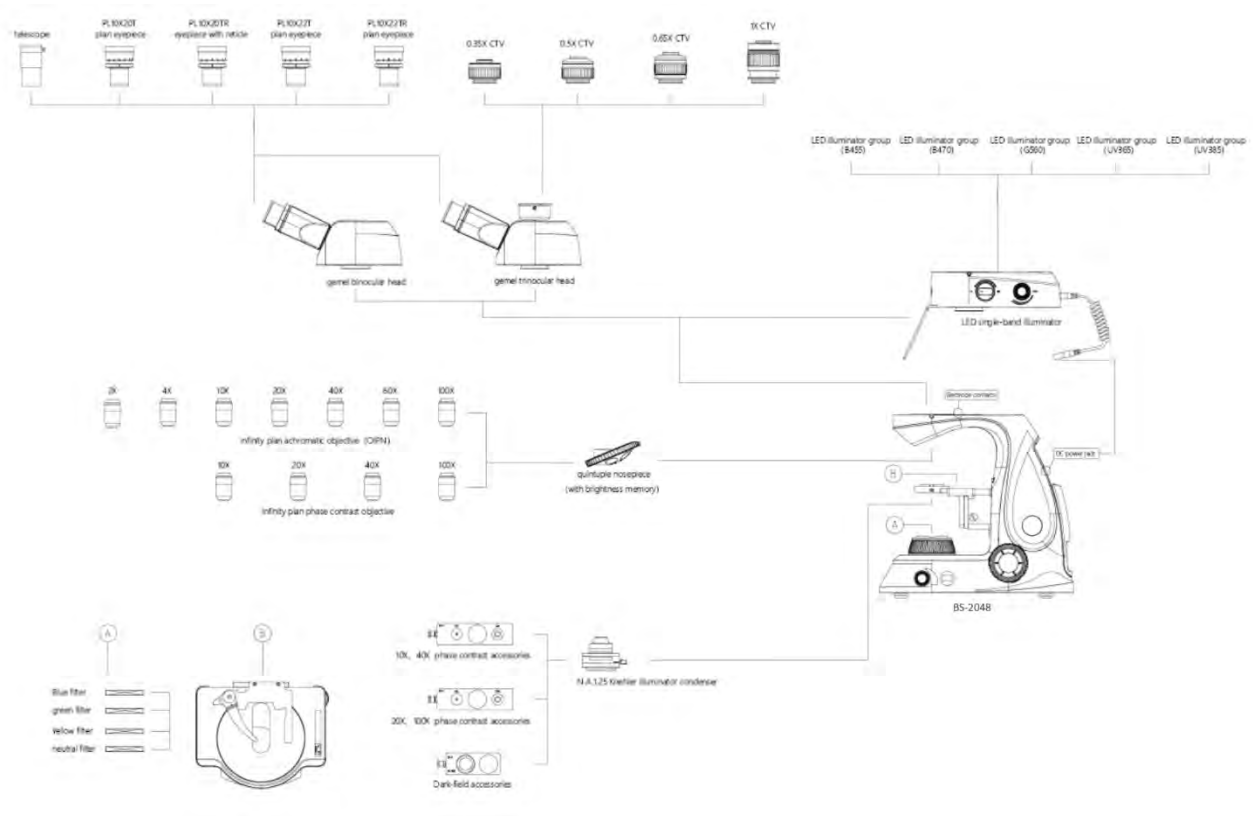
Infinity plan achromatic phase contrast objective

Infinity plan achromatic phase contrast objective adds phase contrast observation function on the basis of bright field observation, providing high definition, high contrast microscopic images. It is especially suitable for the observation of colorless transparent or light-colored cells.

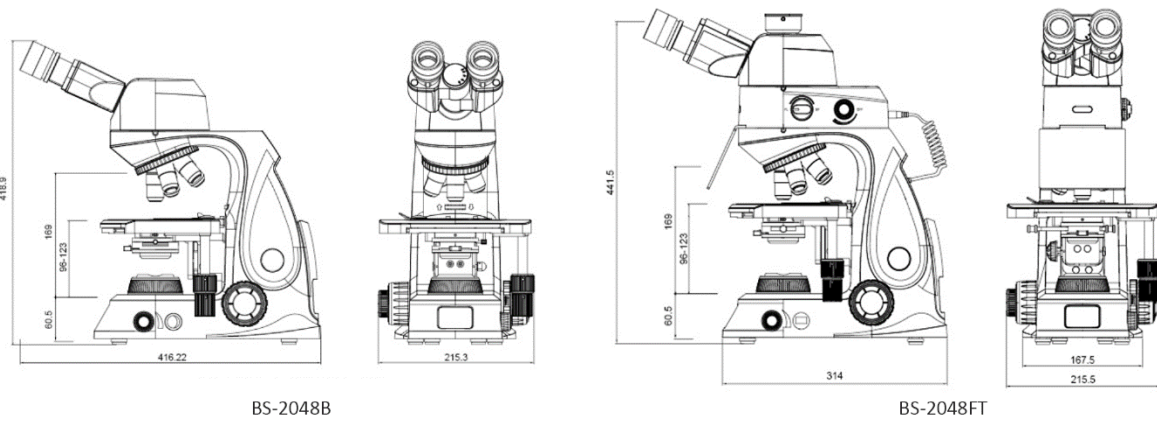
Sample Image



System Diagram



Dimension



Unit:mm

27. BS-2052 Biological Microscope



BS-2052A



BS-2052A(ECO)



BS-2052B



BS-2052BT(ECO)

Introduction

BS-2052 series microscopes are classical biological microscopes with ingenious stand, high definition optical system, sharp image and comfortable operation, which make your work much enjoyable.

Feature

1. High contrast and sharp image with high quality optical system.
2. Low environment requirement with Anti-mould technology.
3. Comfortable operation with low position coarse and fine adjustment knobs.
4. ECO function is optional, automatically turn off after 15 mins of no use.
5. With cord rest on the back, making the working table clean and tidy.



Application

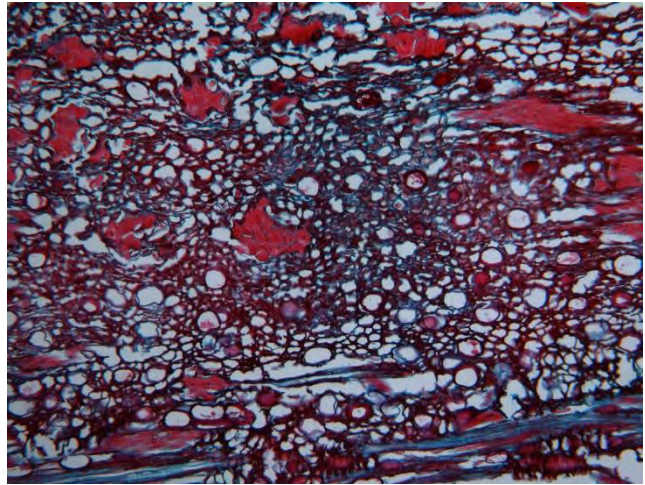
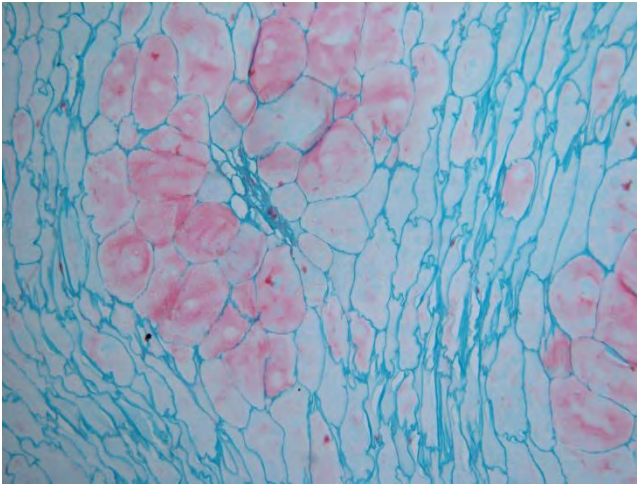
BS-2052 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

Specification

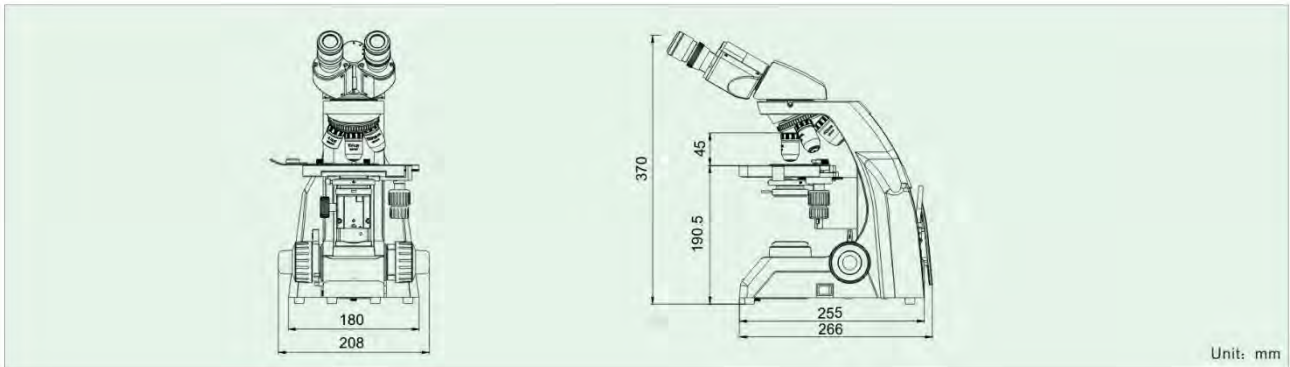
| Item | Specification | BS-2052A | BS-2052B |
|----------------------|--|----------|----------|
| Optical System | Finite Optical System | ● | |
| | Infinite Optical System | | ● |
| Eyepiece | WF10×/18mm | ● | |
| | WF10×/20mm | | ● |
| Viewing Head | Monocular Head, inclined at 30° | ○ | |
| | Seidentopf Binocular Head, inclined at 30°, Interpupillary 47-78mm | ● | ● |
| | Seidentopf Trinocular Head, inclined at 30°, Interpupillary 47-78mm | ○ | ○ |
| | Digital Binocular Head with built-in camera, Inclined at 30°, Interpupillary Distance 47-78mm, 5.0MP, Support Wifi | ○ | ○ |
| | Digital Binocular Head with Tablet camera, Inclined at 30°, Interpupillary Distance 47-78mm, 5.0MP, 8" LCD, Android OS | ○ | ○ |
| Objective | Finite Achromatic Objectives 4×, 10×, 40×, 100× | ● | |
| | Finite Achromatic Objectives 20×, 60× | ○ | |
| | Finite Semi-Plan Achromatic Objectives 2×, 4×, 10×, 20×, 40×, 60×, 100× | ○ | |
| | Finite Plan Achromatic Objectives 4×, 10×, 20×, 40×, 60×, 100× | ○ | |
| | Infinite Semi-Plan Achromatic Objectives 4×, 10×, 40×, 100× | | ● |
| | Infinite Plan Achromatic Objectives 2×, 4×, 10×, 20×, 40×, 60×, 100× | | ○ |
| | Infinite Plan Fluorescent Objective 4×, 10×, 20×, 40×, 100× | | ○ |
| Nosepiece | Backward Quadruple Nosepiece | ● | ● |
| | Backward Quintuple Nosepiece | ○ | ○ |
| Stage | Double Layers Mechanical Stage 140mm×140mm, Moving Range 75mm×50mm | ● | |
| | Rackless Double Layers Mechanical Stage 150mm×139mm, Moving Range 75mm×52mm | | ● |
| Condenser | Abbe Condenser NA1.25 | ● | ● |
| | Dark Field Condenser (Dry / Oil) | ○ | ○ |
| Focusing | Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 25mm | ● | ● |
| Illumination | S-LED Illumination, Brightness Adjustable | ● | ● |
| | S-LED Illumination with Rechargeable Battery, Brightness Adjustable | ○ | ○ |
| | 6V/20W Halogen Lamp, Brightness Adjustable | ○ | ○ |
| | Kohler Illumination | ○ | ○ |
| | ECO Function, automatically turn off after 15 mins of no use | ○ | ○ |
| | Plane-concave Mirror | ○ | ○ |
| Optional accessories | Phase Contrast Kit | ○ | ○ |
| | Polarizing Set | ○ | ○ |
| | FL-LED Epi-fluorescent Attachment | | ○ |
| Package | 1pc/carton, 36*26*46mm, gross weight: 8kg | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Image



Dimension



28. BS-2053, 2054 Biological Microscope



BS-2053B



BS-2053T



BS-2054B



BS-2054T

Introduction

BS-2053 and BS-2054 series microscopes are specially designed for various microscopy needs such as teaching and clinical diagnosis. It has good optical quality, wide field of view, excellent objective performance, clear and reliable imaging. Ergonomic design provides better comfort and use experience, pays attention to the user's operating habits, starts from the details, and constantly optimizes. Modular design can realize various observation methods such as bright field, dark field, phase contrast, fluorescence, etc., providing more possibilities for your scientific research and exploration. It takes up little space and is very convenient for handling, storage and maintenance, it is the first choice for microscope beginners.

Feature

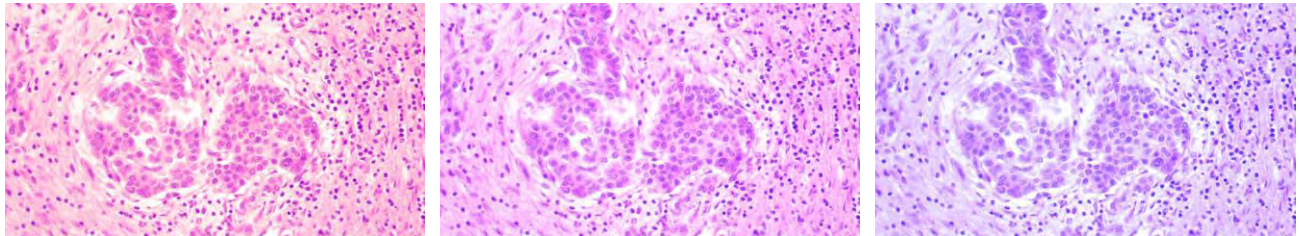
1. Excellent Image Quality

NIS optical system and optical elements using advanced coating technology make it easy to obtain good quality imaging. Excellent optical system is the guarantee of obtaining plan and clear images. Infinite achromatic semi-plan objective and even plan objective can be used in this microscope. It can provide clear images with high contrast,

and the clear range can reach to the edge of the field of view. It also has bright and uniform illumination.

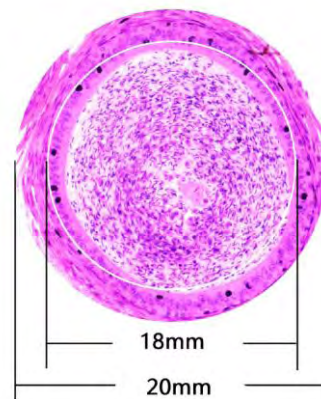
2. BS-2054 has color temperature adjustable function

BS-2054 has color temperature adjustable function, the color temperature can be adjusted to makes the sample present natural color. Its color temperature changes according to observation needs, even if the user changes the brightness, it can maintain the brightness and color temperature comfortably. The LED design life is 60,000 hours, which not only reduces maintenance costs, but also stabilizes the brightness during the whole service life.



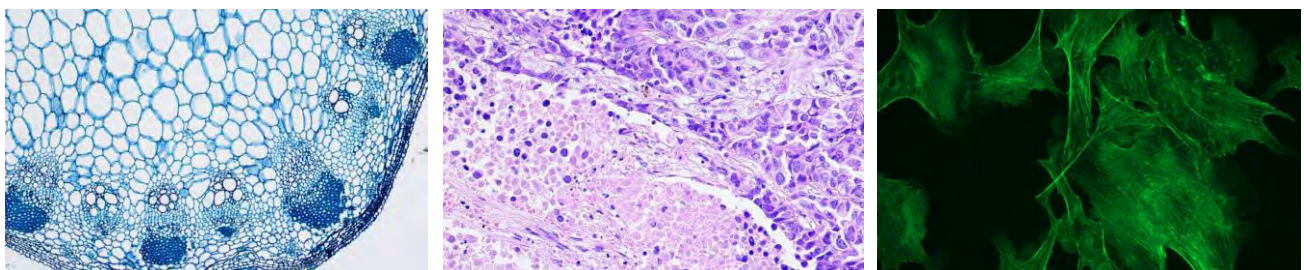
3. Wide Field of View

BS-2053, 2054 series microscopes can achieve the 20mm wide field of view under the 10X eyepiece, with more comprehensive observation field and faster sample observation. The eyepiece adopts the plan and distortion-free design to prevent blurring at the edges of the field of view and stray light.



4. Realize Various Observation Methods

| Bright Field | Dark Field | Phase Contrast | Fluorescence | Simple Polarization |
|--------------|------------|----------------|--------------|---------------------|
| ● | ● | ● | ● | ● |



5. Applicable to Any Environment

Anti-mold treatment greatly extends the service life of the microscope. Since the objective, eyepiece and observation tube are all effectively anti-mildew treated, they can ensure continuous clear image and prolong the service life of the microscope. Even working in hot and high humid environment is not affected the working life.

6. Easy to Store and Transport

BS-2053, BS2054 series microscopes are small enough to fit into a common classroom cabinet. There is a special carrying handle at the back, and it has light weight, good stability and stable structure. The back panel of the microscope is designed with a hub device, which can effectively store the long power cord, improve the cleanliness of the laboratory, and also reduce the trip accidents caused by the long power cord during transportation. Wooden storage box as an optional accessory can bring great convenience for storage and handling.



7. External power adapter, safer than ordinary microscopes.

External power adapter with DC5V input, safer than ordinary microscopes.

8. Ergonomic Design

BS-2053, BS2054 series microscopes adopt ergonomic design, high eye point, low-hand focusing mechanism, low-hand stage and other ergonomic designs to ensure that users can operate the microscope under the most comfortable conditions and minimize the working fatigue.



9. Extremely Smooth Nosepiece

The nosepiece adopts a low damping design, high-precision machining ensures smoothness and durability in use. The nosepiece has a rubber ring, which is ergonomic and easy to convert.

10. Stage Designed for Beginners

The rackless stage prevents users from being scratched by exposed rack during use. The slide clip can be easily operated with one hand. When the upper limit of the stage is locked, accidental contact between the objectives and the slide can be avoided, which can prevent damage to samples and objectives. The coarse focus torque adjustment device can adjust the comfort of use according to personal operating habits.



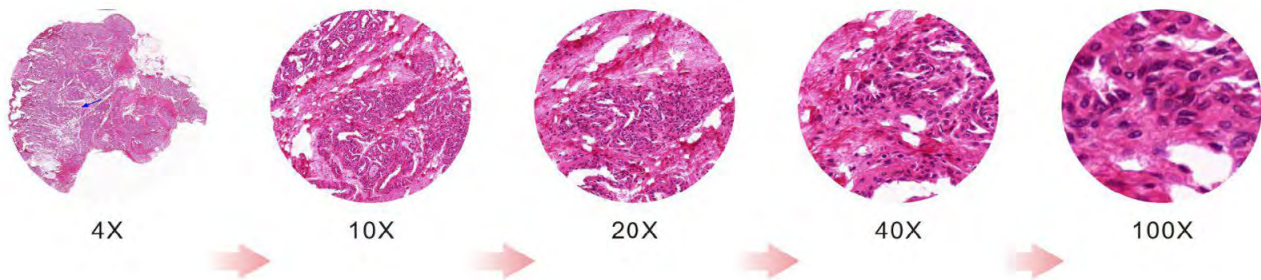
11. Binocular head with built-in WIFI digital camera is optional

Built-in high-definition HDMI&WIFI digital camera, support 5.0MP picture capture, 1080P video preview and capture. Supporting Android, IOS, windows operating system. The high-definition images under the microscope can be output to external devices in real time, and there is no data cable connection, the operator is more free to move. Observation, analysis and processing of microscopic imaging can be realized in external equipment, including photographing, measurement, image adjustment, storage, processing, etc.



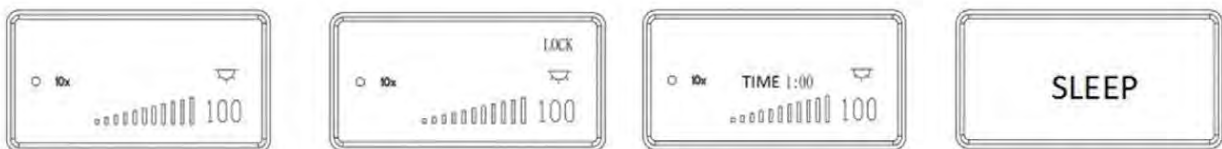
12. Coded Nosepiece

BS-2054 has coded nosepiece, the illumination brightness could be remembered. When different objectives are switched, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.



13. Microscope Use Status Display

The LCD screen in the front of the BS-2054 series microscopes can display the working status of the microscope, including magnification, light intensity, standby status, etc.



Start& working mode

Lock mode

ECO mode

Sleep mode

Application

BS-2053, 2054 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

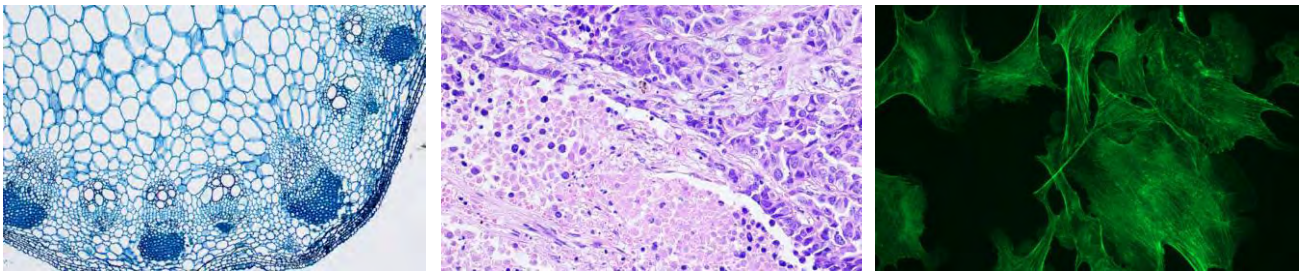
Specification

| Item | Specification | BS-2053B | BS-2054B | |
|-----------------------------------|---|-----------------------------------|----------|---|
| Optical System | Infinite Optical System | ● | ● | |
| Eyepiece | WF10×/20mm | ● | ● | |
| Viewing Head | Seidentopf Binocular Head, inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable | ● | ● | |
| | Seidentopf Trinocular Head, inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable | ○ | ○ | |
| | Seidentopf Binocular Head with built-in USB2.0 digital camera (8.3MP/5.1MP, 30fps), inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable | ○ | ○ | |
| | Seidentopf Binocular Head with built-in HDMI&WIFI digital camera (5.0MP image capture, 1080P video preview and capture, 30fps), inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable | ○ | ○ | |
| Objective | Infinite Semi-Plan Achromatic Objectives | 4×, NA=0.10, WD=28mm | ● | ● |
| | | 10×, NA=0.25, WD=5.8mm | ● | ● |
| | | 40× (S), NA=0.65, WD=0.43mm | ● | ● |
| | | 100× (S, Oil), NA=1.25, WD=0.13mm | ● | ● |
| | Infinite Plan Achromatic Objectives | 2×, NA=0.05, WD=18.3mm | ○ | ○ |
| | | 4×, NA=0.10, WD=28mm | ○ | ○ |
| | | 10×, NA=0.25, WD=10mm | ○ | ○ |
| | | 20×, NA=0.40, WD=5.1mm | ○ | ○ |
| | | 40× (S), NA=0.65, WD=0.7mm | ○ | ○ |
| | | 50× (S, Oil), NA=0.90, WD=0.12mm | ○ | ○ |
| | | 60× (S), NA=0.80, WD=0.14mm | ○ | ○ |
| | | 100× (S, Oil), NA=1.25, WD=0.18mm | ○ | ○ |
| | Infinite Plan Fluorescent Objective | 4×, NA=0.13, WD=16.3mm | ○ | ○ |
| | | 10×, NA=0.30, WD=12.4mm | ○ | ○ |
| | | 20×, NA=0.50, WD=1.5mm | ○ | ○ |
| | | 40× (S), NA=0.75, WD=0.35mm | ○ | ○ |
| 100× (S, Oil), NA=1.30, WD=0.13mm | | ○ | ○ | |
| Nosepiece | Backward Quintuple Nosepiece | ● | | |
| | Backward Coded Quintuple Nosepiece | | ● | |
| Stage | Rackless Double Layers Mechanical Stage 150mm×139mm, Moving Range 75mm×52mm | ● | ● | |
| Condenser | Abbe Condenser NA1.25 | ● | ● | |
| | Dark Field Condenser (Dry / Oil) | ○ | ○ | |
| Focusing | Coaxial Coarse and Fine Adjustment, Left hand has Height Limit Lock, Right Hand has Coarse Tension Adjustment Function. Coarse Stroke 37.7mm per Rotation, Fine division 0.002mm, Fine Stroke 0.2mm per Rotation, Moving Range 20mm | ● | ● | |
| Illumination | 3W LED Illumination, Brightness Adjustable | ● | ● | |
| | Kohler Illumination | ○ | ○ | |

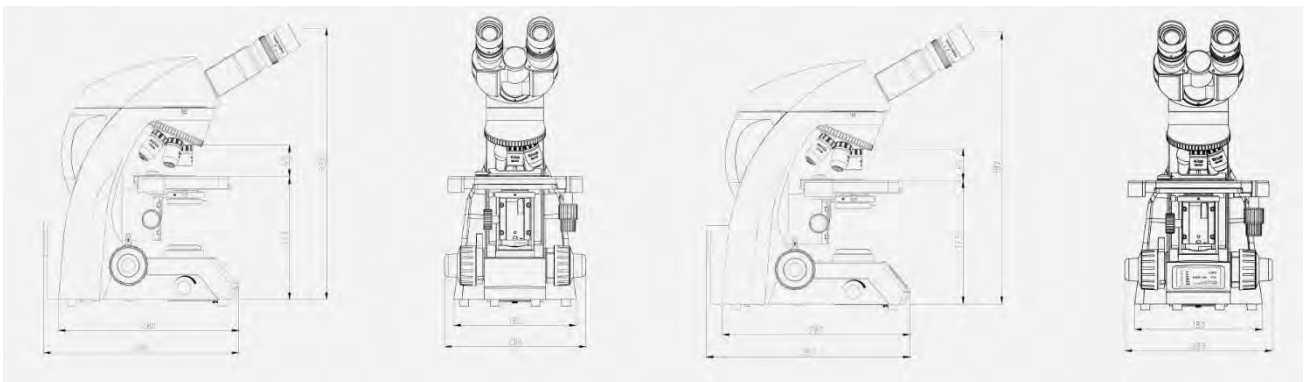
| | | | |
|-------------------|---|---|---|
| | Illumination management system, LCD Displays Magnification, Brightness, Color Temperature adjustment, etc | ○ | ● |
| Other Accessories | Dust Cover | ● | ● |
| | Power Adapter DC5V Input | ● | ● |
| | Instruction Manual | ● | ● |
| | Green Filter | ○ | ○ |
| | Blue/Yellow/Red Filter | ○ | ○ |
| | 0.5× C-mount Adapter | ○ | ○ |
| | 1× C-mount Adapter | ○ | ○ |
| | BPHB-4 Phase Contrast Kit | ○ | ○ |
| | Simple Polarizing Set | ○ | ○ |
| | FL-LED Epi-fluorescent Attachment | ○ | ○ |
| | Mercury Fluorescent Illumination | ○ | ○ |
| Reliability | Anti-mold Treatment on all the optics | ● | ● |
| Packing | 1pc/carton, 36*26*46cm, gross weight: 8kg | ● | ● |

Note: ● Standard Outfit, ○ Optional

Sample Image



Dimension



BS-2053B

BS-2054B

Unit: mm

29. BS-2063 Biological Microscope



BS-2063B



BS-2063T

Introduction

BS-2063 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory study. It adopts an Infinite optical system, beautiful structure and ergonomic design. With an innovative optical and structure design, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

Feature

1. Excellent infinite optical system

Excellent infinite optical system with high resolution and perfect definition.

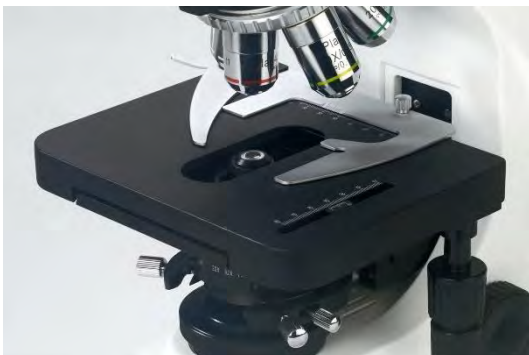
2. Wide field eyepiece

Wide field eyepiece, view field up to $\Phi 22\text{mm}$, more comfortable for observation.

3. Viewing head

Trinocular head with light distribution 100:0 (100% for eyepiece) and 80:20(80% for trinocular head and 20% for eyepiece).

4. Rackless stage



Rackless (integrated) stage is safer than traditional stage.

5. Various accessories for upgrading.

100X water objective is available for convenient viewing.



Quintuple turret phase contrast unit with 10X/20X/40X/100X infinite plan phase contrast objective for phase contrast and bright field observation.



N.A.0.9/0.13 Swing-out Condenser
Dark field condenser (dry) available to 4X-40X Objective
Dark field condenser (oil) available to 100X Objective



Infinite Plan Objectives

Mercury and LED fluorescent attachment with six-holes disk fluorescence unit, more fluorescence filters can be supplied.





BS-2063FT



BS-2063FT(LED) with B/G Filter



BS-2063FT(LED) with UV/V/B/G Filter



BS-2063F2B(LED)



BS-2063F2T(LED)

Simple polarizing unit with polarizer and analyzer.



Application

BS-2063 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary institutes, such as hospitals, clinics, academic laboratories, colleges and universities.

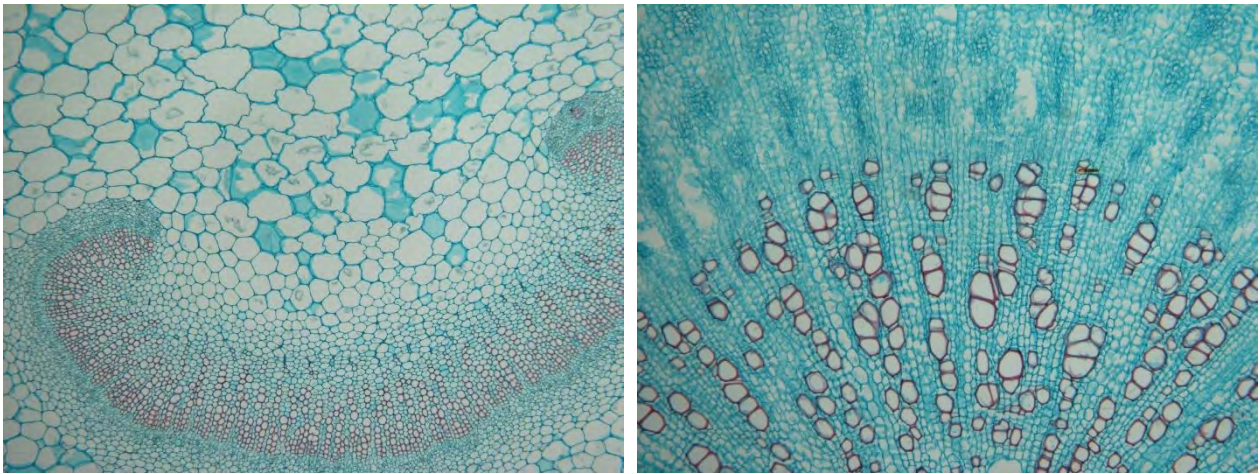
Specification

| Item | Specification | BS-2063B | BS-2063T |
|--|--|----------|----------|
| Optical System | Color Corrected Infinite Optical System | ● | ● |
| Viewing Head | Inclined 30° binocular tube, 360° rotatable, interpupillary distance: 48-76mm | ● | |
| | Inclined 30° trinocular tube, 360° rotatable, interpupillary distance: 48-76mm, splitting ratio: eyepiece: trinocular=100:0 or 20:80 | | ● |
| Eyepiece | Wide field eyepiece WF10X/22mm, diopter adjustable, tube diameter: 30mm | ● | ● |
| | WF15×/16mm, diopter adjustable | ○ | ○ |
| | WF10×/22mm with 0.1mm eyepiece micrometer | ○ | ○ |
| Infinite Plan Achromatic Objective | 2X/ NA 0.06 | ○ | ○ |
| | 4X/ NA 0.10, WD=12.10mm | ● | ● |
| | 10X/ NA 0.25, WD4.64mm | ● | ● |
| | 20X/ NA 0.40 (S), WD=2.41mm | ● | ● |
| | 40X/ NA 0.66 (S), WD=0.65mm | ● | ● |
| | 60X/ NA 0.80 (S), WD=0.33mm | ○ | ○ |
| | (Oil) 100X/ NA 1.25 (S), WD=0.12mm | ● | ● |
| Infinity Plan Semi-Apochromatic Fluorescent Objectives | (Water) 100X/ NA 1.15 (S), WD=0.19mm | ○ | ○ |
| | 4X/NA=0.16, WD=17.15mm | ○ | ○ |
| | 10X/NA=0.30, WD=7.68mm | ○ | ○ |
| | 20X/NA=0.50, WD=1.96mm | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm (for TB, no correction of slide cover) | ○ | ○ |
| (Oil) 100X/NA=1.3, WD=0.15mm | ○ | ○ | |
| Nosepiece | Backward quintuple nosepiece | ● | ● |
| Stage | Rackless (integrated) stage, size: 182mm*140mm, travel range: 77mm*52mm, with two slide holders | ● | ● |
| | Stage size: 175mm*145mm. Travel: 78mm*55mm, scale: 0.1mm. With two slide holders | ○ | ○ |
| Condenser | Swing-out condenser NA 0.9/0.13, with iris diaphragm | ● | ● |
| | Dark field condenser, dry, apply to 4X-40X objective | ○ | ○ |
| | Dark field condenser, wet, apply to 100X objective | ○ | ○ |
| Focusing | Coaxial coarse and fine focusing knob, coarse focusing travel range: 25mm, coarse stroke 42.4mm/rotation, fine stroke 0.2mm/rotation, fine division: 2μm | ● | ● |

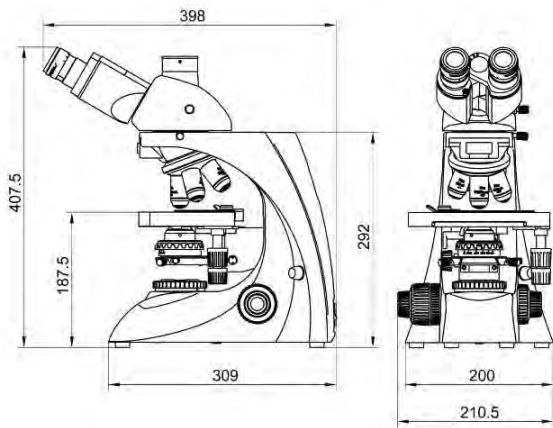
| | | | |
|------------------------|---|---|---|
| Field Diaphragm | Field diaphragm | ● | ● |
| Koeher Illumination | 12V/30W Halogen lamp | ● | ● |
| | 5W LED lamp | ○ | ○ |
| Polarizing Unit | Analyzer and polarizer | ○ | ○ |
| Phase Contrast Unit | Quintuple hole turret unit with 10X/20X/40X/100X phase contrast objective | ○ | ○ |
| | Independent slot with 10X/20X/40X/100X phase contrast objective | ○ | ○ |
| Fluorescent Attachment | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | ○ | ○ |
| | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | ○ | ○ |
| | B or G fluorescence unit, 5W-LED fluorescence lamp. | ○ | ○ |
| | Auramine long pass fluorescence unit, with 5W LED fluorescence lamp | ○ | ○ |
| | B/G fluorescence unit, 5W-LED fluorescence lamp. | ○ | ○ |
| Video Adapter | 0.35X C-mount adapter, adjustable focus | | ○ |
| | 0.5X C-mount adapter, adjustable focus | | ● |
| | 0.75X C-mount adapter, adjustable focus | | ○ |
| | 1X C-mount adapter, adjustable focus | | ○ |
| | Trinocular digital eyepiece interface | | ○ |
| Photo Adapter | Used for CANON / NIKON / OLYMPUS/ SONY DLSR cameras | | ○ |
| Filter | Blue filter (Φ45) | ● | ● |
| | Green filter (Φ45) | ○ | ○ |
| | Amber filter (Φ45) | ○ | ○ |
| Power Supply | Wide voltage input: 100V~240V | ● | ● |
| Packing | 1 carton/set, Packing Size: 565mm × 310mm × 410mm, Gross Weight: 12 kgs, Net Weight: 10 kgs | ● | ● |

Note: ●Standard Outfit, ○Optional

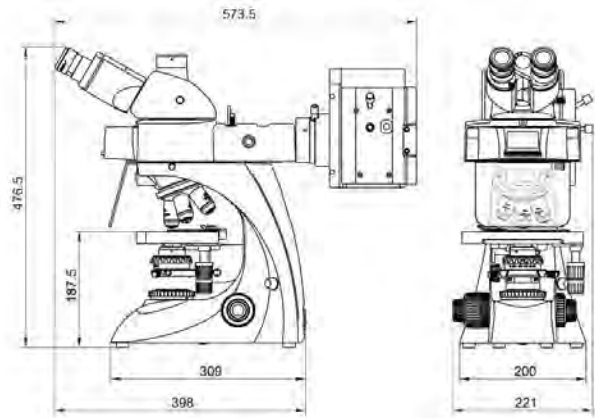
Sample Image



Dimension



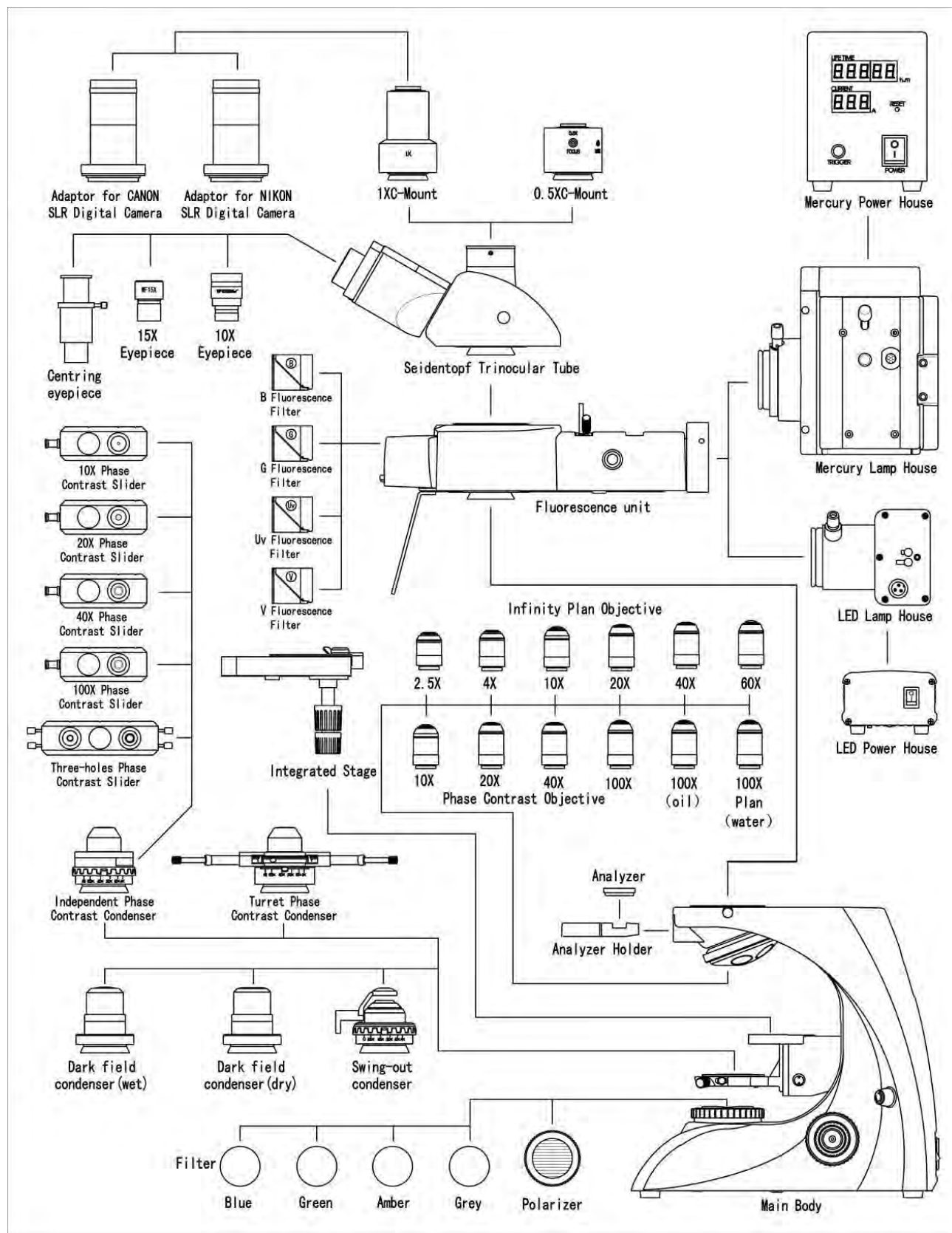
BS-2063T Dimension



BS-2063FT Dimension

Unit: mm

System Diagram



30. BS-2063F(LED) LED Fluorescence Microscope



BS-2063FT(LED) with B/G Filter



BS-2063FT(LED) with UV/V/B/G Filter

Introduction

BS-2063F(LED) Series LED Fluorescence Microscope is specifically designed for the daily routine work in the demanding applications of education, pathology investigation, clinical and laboratory usage. Innovative LED as fluorescence illumination source, provide excellent image with easy and comfortable usage experience.

Feature

1. LED fluorescence unit



Six-holes disk fluorescence unit, more fluorescence filters can be supplied.

2. Rackless stage



Rackless wire driven mechanical fixed stage with focus lock is safer than traditional stage.

3. Quintuple turret phase contrast unit



Quintuple turret phase contrast unit with 10X/20X/40X/100X Infinite plan phase contrast objective for phase contrast and bright field observation.

4. Other accessories.



N.A.0.9/0.13 Swing-out Condenser
 Dark field condenser (dry) available to 4X-60X Objective
 Dark field condenser (oil) available to 100X Objective



Infinite Plan Objectives

Specification

| Item | Specification | BS-2063FB (LED) | BS-2063FT (LED) |
|----------------|---|-----------------|-----------------|
| Optical System | Color Corrected Infinite Optical System | • | • |
| Viewing Head | Inclined 30° binocular tube, 360° rotatable, interpupillary distance: 48-76mm | • | |

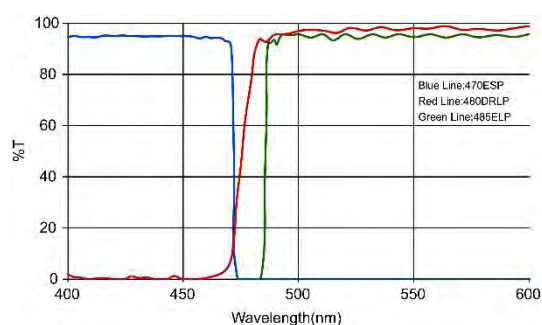
| | | | |
|--|--|---|---|
| | Inclined 30° trinocular tube, 360° rotatable, interpupillary distance: 48-76mm, splitting ratio: eyepiece: trinocular=100:0 or 20:80 | | ● |
| Eyepiece | Wide field eyepiece WF10X/22mm, diopter adjustable, tube diameter: 30mm | ● | ● |
| | WF15×/16mm, diopter adjustable | ○ | ○ |
| | WF10×/22mm with 0.1mm eyepiece micrometer | ○ | ○ |
| Infinite Plan Achromatic Objective | 2X/ NA 0.06 | ○ | ○ |
| | 4X/ NA 0.10, WD=12.10mm | ● | ● |
| | 10X/ NA 0.25, WD4.64mm | ● | ● |
| | 20X/ NA 0.40 (S), WD=2.41mm | ● | ● |
| | 40X/ NA 0.66 (S), WD=0.65mm | ● | ● |
| | 60X/ NA 0.80 (S), WD=0.33mm | ○ | ○ |
| | (Oil) 100X/ NA 1.25 (S), WD=0.12mm | ● | ● |
| (Water) 100X/ NA 1.15 (S), WD=0.19mm | ○ | ○ | |
| Infinity Plan Semi-Apochromatic Fluorescent Objectives | 4X/NA=0.16, WD=17.15mm | ○ | ○ |
| | 10X/NA=0.30, WD=7.68mm | ○ | ○ |
| | 20X/NA=0.50, WD=1.96mm | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm (for TB, no correction of slide cover) | ○ | ○ |
| | (Oil) 100X/NA=1.3, WD=0.15mm | ○ | ○ |
| Nosepiece | Backward quintuple nosepiece | ● | ● |
| Stage | Rackless (integrated) stage, size: 182mm*140mm, travel range: 77mm*52mm, with two slide holders | ● | ● |
| | Stage size: 175mm*145mm. Travel: 78mm*55mm, scale: 0.1mm. With two slide holders | ○ | ○ |
| Condenser | Swing-out condenser NA 0.9/0.13, with iris diaphragm | ● | ● |
| | Dark field condenser, dry, apply to 4X-40X objective | ○ | ○ |
| | Dark field condenser, wet, apply to 100X objective | ○ | ○ |
| Focusing | Coaxial coarse and fine focusing knob, coarse focusing travel range: 25mm, coarse stroke 42.4mm/rotation, fine stroke 0.2mm/rotation, fine division: 2μm | ● | ● |
| Field Diaphragm | Field diaphragm | ● | ● |
| Koehler Illumination | 12V/30W Halogen lamp | ● | ● |
| | 5W LED lamp | ○ | ○ |
| Polarizing Unit | Analyzer and polarizer | ○ | ○ |
| Phase Contrast Unit | Quintuple hole turret unit with 10X/20X/40X/100X phase contrast objective | ○ | ○ |
| | Independent slot with 10X/20X/40X/100X phase contrast objective | ○ | ○ |
| Fluorescent Attachment | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | ○ | ○ |

| | | | |
|---------------|--|---|---|
| | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | ● | ● |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | ○ | ○ |
| | B or G fluorescence unit, 5W-LED fluorescence lamp. | ○ | ○ |
| | Auramine long pass fluorescence unit, with 5W LED fluorescence lamp | ○ | ○ |
| | B/G fluorescence unit, 5W-LED fluorescence lamp. | ○ | ○ |
| Video Adapter | 0.35X C-mount adapter, adjustable focus | | ○ |
| | 0.5X C-mount adapter, adjustable focus | | ● |
| | 0.75X C-mount adapter, adjustable focus | | ○ |
| | 1X C-mount adapter, adjustable focus | | ○ |
| | Trinocular digital eyepiece interface | | ○ |
| Photo Adapter | Used for CANON / NIKON / OLYMPUS/ SONY DLSR cameras | | ○ |
| Filter | Blue filter (Φ45) | ● | ● |
| | Green filter (Φ45) | ○ | ○ |
| | Amber filter (Φ45) | ○ | ○ |
| Power Supply | Wide voltage input: 100V~240V | ● | ● |
| Packing | 1 carton/set, Packing Size: 755mm×340mm×440mm, Gross Weight: 17 kgs, Net Weight: 15 kgs | ● | ● |

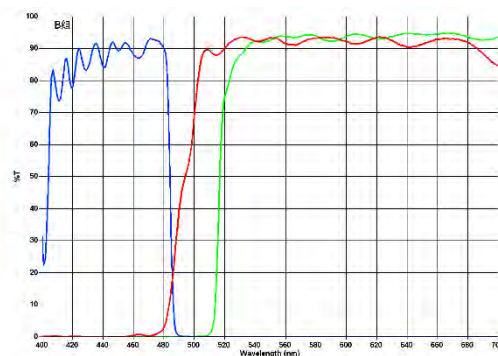
Note: "●" In Table Is Standard outfits, "○" Is Optional Accessories.

Fluorescent filters

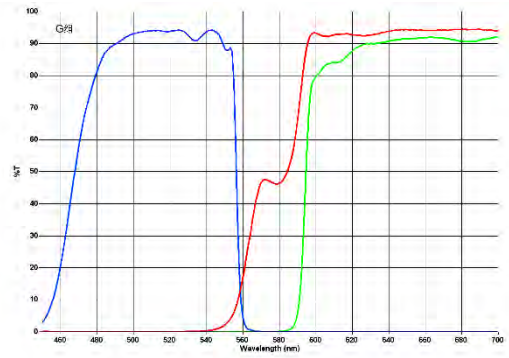
| Auramine O | Wavelength (nm) |
|------------|-----------------|
| Exciter | 470Sp |
| Dichroic | 480DRLP |
| Barrier | 485LP |



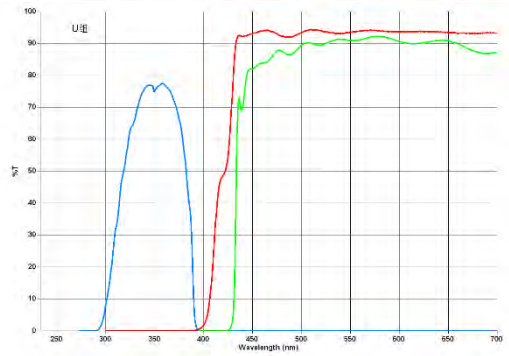
| B Excitation | Wavelength (nm) |
|--------------|-----------------|
| Exciter | 470/37 |
| Dichroic | 505LP |
| Barrier | 515LP |



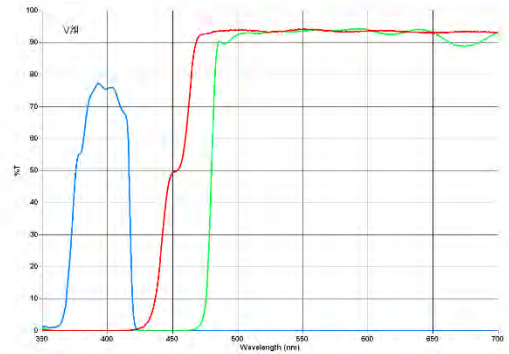
| G Excitation | Wavelength (nm) |
|--------------|-----------------|
| Exciter | 500-550 |
| Dichroic | 575 |
| Barrier | 590 |



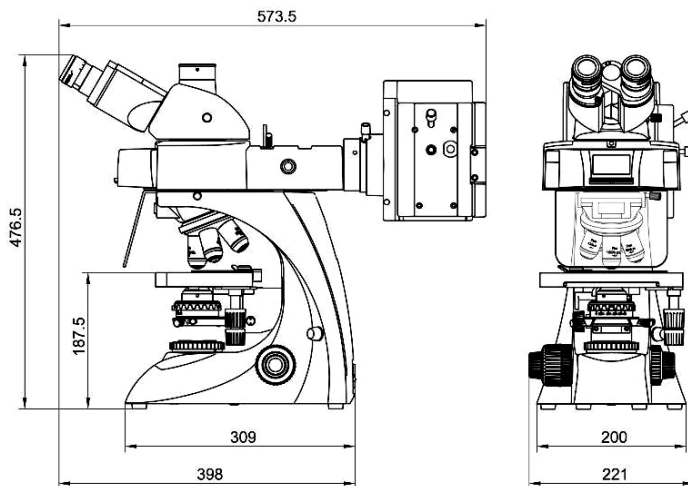
| Uv Excitation | Wavelength (nm) |
|---------------|-----------------|
| Exciter | 330-380 |
| Dichroic | 400 |
| Barrier | 435 |



| V Excitation | Wavelength (nm) |
|--------------|-----------------|
| Exciter | 380-420 |
| Dichroic | 430 |
| Barrier | 460 |

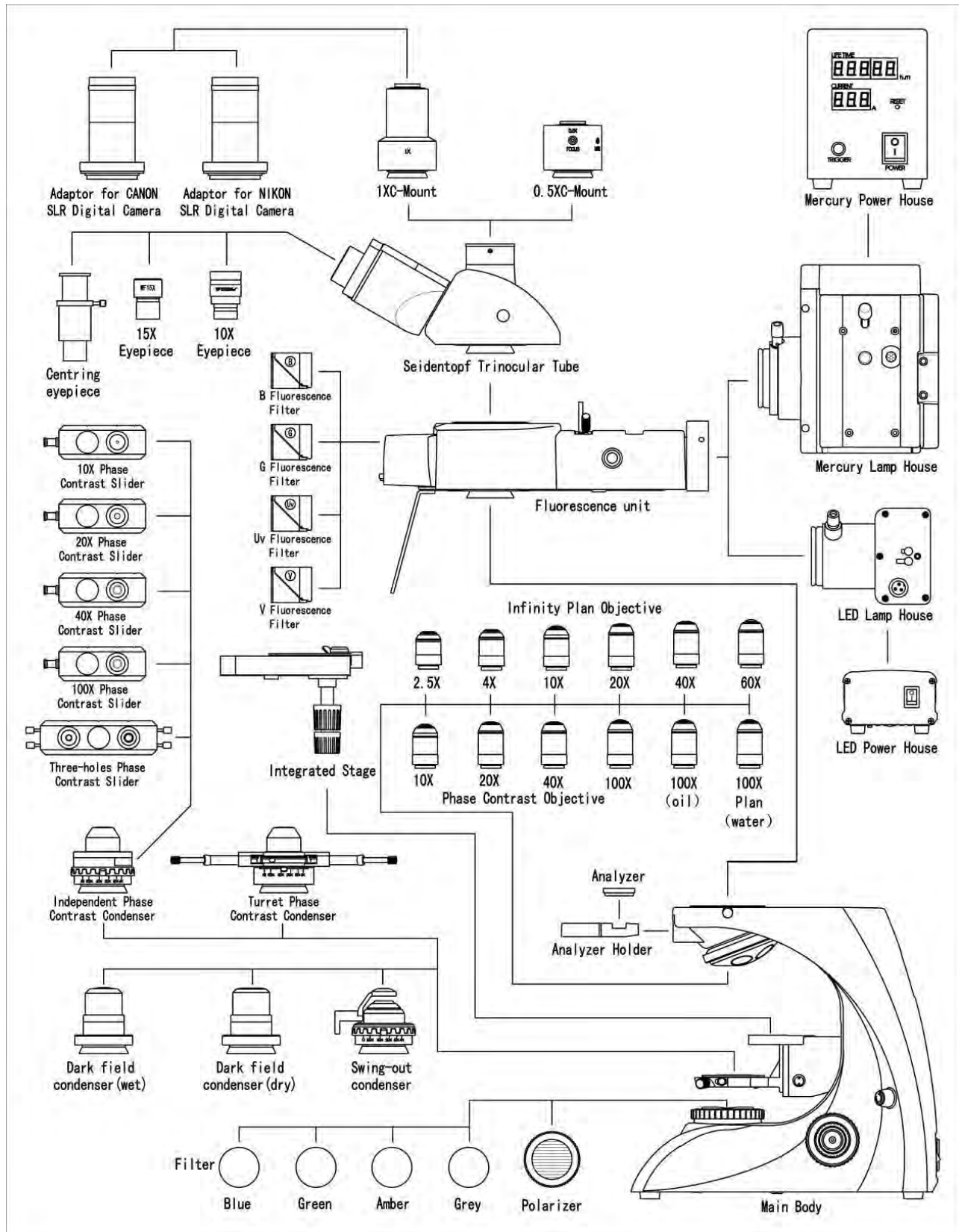


Dimension



Unit: mm

Layout Diagram



31. BS-2063F2(LED) LED Fluorescence Microscope



BS-2063F2T(LED)

Introduction

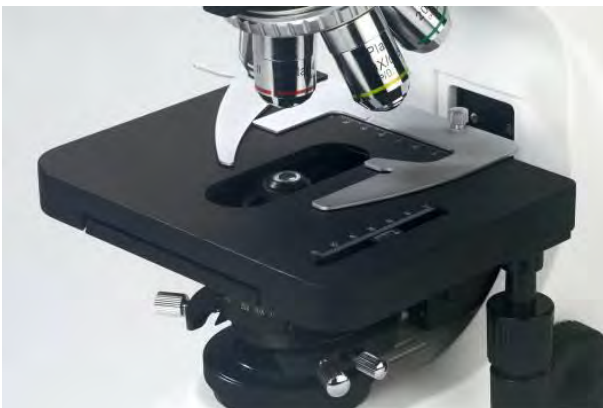
BS-2063F(LED) Series LED Fluorescence Microscope is specifically designed for the daily routine work in the demanding applications of education, pathology investigation, clinical and laboratory usage. Innovative LED as fluorescence illumination source, provide excellent image with easy and comfortable usage experience.

BS-2063F2(LED, TB) Series LED Fluorescence Microscope is a professional solution for tuberculosis test applications with LED fluorescence excitation and transmitted-light brightfield illumination.

If you want to analyze tuberculosis with Ziehl-Neelsen-Staining or if you like to use fluorescence excitation, e.g. with Auramine O dye. BS-2063F2(LED,TB) can simply switch between the two modes.

Feature

1. Rackless stage



Rackless wire driven mechanical fixed stage with focus lock is safer than traditional stage.

2. Quintuple turret phase contrast unit



Quintuple turret phase contrast unit with 10X/20X/40X/100X Infinite plan phase contrast objective for phase contrast and bright field observation.

3. Other accessories



N.A.0.9/0.13 Swing-out Condenser
 Dark field condenser (dry) available to 4X-60X Objective
 Dark field condenser (oil) available to 100X Objective



Infinite Plan Objectives

Application

BS-2063F(LED) Series LED Fluorescence Microscope is specifically designed for the daily routine work of education, pathology diagnosis, hospital, clinical and laboratory examinations and research.

Specification

BS-2063F2B (LED), BS-2063F2T (LED)

| Item | Specification | BS-2063F2B (LED) | BS-2063F2T (LED) |
|----------------|--|------------------|------------------|
| Optical System | Color Corrected Infinite Optical System | ● | ● |
| Viewing Head | Inclined 30° binocular tube, 360° rotatable, interpupillary distance: 48-76mm | ● | |
| | Inclined 30° trinocular tube, 360° rotatable, interpupillary distance: 48-76mm, splitting ratio: eyepiece: trinocular=100:0 or 20:80 | | ● |
| Eyepiece | Wide field eyepiece WF10X/22mm, diopter adjustable, tube diameter: 30mm | ● | ● |
| | WF15×/16mm, diopter adjustable | ○ | ○ |
| | WF10×/22mm with 0.1mm eyepiece micrometer | ○ | ○ |

| | | | |
|--|--|---|---|
| Infinite Plan Achromatic Objective | 2X/ NA 0.06 | ○ | ○ |
| | 4X/ NA 0.10, WD=12.10mm | ● | ● |
| | 10X/ NA 0.25, WD4.64mm | ● | ● |
| | 20X/ NA 0.40 (S), WD=2.41mm | ● | ● |
| | 40X/ NA 0.66 (S), WD=0.65mm | ● | ● |
| | 60X/ NA 0.80 (S), WD=0.33mm | ○ | ○ |
| | (Oil) 100X/ NA 1.25 (S), WD=0.12mm | ● | ● |
| (Water) 100X/ NA 1.15 (S), WD=0.19mm | ○ | ○ | |
| Infinity Plan Semi-Apochromatic Fluorescent Objectives | 4X/NA=0.16, WD=17.15mm | ○ | ○ |
| | 10X/NA=0.30, WD=7.68mm | ○ | ○ |
| | 20X/NA=0.50, WD=1.96mm | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm (for TB, no correction of slide cover) | ○ | ○ |
| | (Oil) 100X/NA=1.3, WD=0.15mm | ○ | ○ |
| Nosepiece | Backward quintuple nosepiece | ● | ● |
| Stage | Rackless (integrated) stage, size: 182mm*140mm, travel range: 77mm*52mm, with two slide holders | ● | ● |
| | Stage size: 175mm*145mm. Travel: 78mm*55mm, scale: 0.1mm. With two slide holders | ○ | ○ |
| Condenser | Swing-out condenser NA 0.9/0.13, with iris diaphragm | ● | ● |
| | Dark field condenser, dry, apply to 4X-40X objective | ○ | ○ |
| | Dark field condenser, wet, apply to 100X objective | ○ | ○ |
| Focusing | Coaxial coarse and fine focusing knob, coarse focusing travel range: 25mm, coarse stroke 42.4mm/rotation, fine stroke 0.2mm/rotation, fine division: 2μm | ● | ● |
| Field Diaphragm | Field diaphragm | ● | ● |
| Koehler Illumination | 12V/30W Halogen lamp | ● | ● |
| | 5W LED lamp | ○ | ○ |
| Polarizing Unit | Analyzer and polarizer | ○ | ○ |
| Phase Contrast Unit | Quintuple hole turret unit with 10X/20X/40X/100X phase contrast objective | ○ | ○ |
| | Independent slot with 10X/20X/40X/100X phase contrast objective | ○ | ○ |
| Fluorescent Attachment | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | ○ | ○ |
| | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | ○ | ○ |
| | B or G fluorescence unit, 5W-LED fluorescence lamp. | ● | ● |
| | Auramine long pass fluorescence unit, with 5W LED fluorescence lamp | ○ | ○ |

| | | | |
|---------------|--|---|---|
| | B/G fluorescence unit, 5W-LED fluorescence lamp. | ○ | ○ |
| Video Adapter | 0.35X C-mount adapter, adjustable focus | | ○ |
| | 0.5X C-mount adapter, adjustable focus | | ● |
| | 0.75X C-mount adapter, adjustable focus | | ○ |
| | 1X C-mount adapter, adjustable focus | | ○ |
| | Trinocular digital eyepiece interface | | ○ |
| Photo Adapter | Used for CANON / NIKON / OLYMPUS/ SONY DLSR cameras | | ○ |
| Filter | Blue filter (Φ45) | ● | ● |
| | Green filter (Φ45) | ○ | ○ |
| | Amber filter (Φ45) | ○ | ○ |
| Power Supply | Wide voltage input: 100V~240V | ● | ● |
| Packing | 1 carton/set, Packing Size: 755mm×340mm×440mm, Gross Weight: 17 kgs, Net Weight: 15 kgs | ● | ● |

BS-2063F2B (LED, TB), BS-2063F2T (LED, TB)

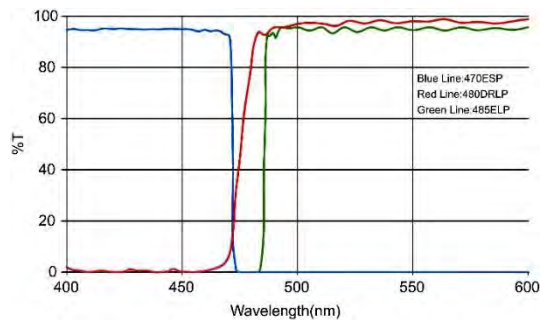
| Item | Specification | BS-2063F2B (LED, TB) | BS-2063F2T (LED, TB) |
|---|---|-------------------------|-------------------------|
| Optical System | Color Corrected Infinite Optical System | ● | ● |
| Viewing Head | Inclined 30° binocular tube, 360° rotatable, interpupillary distance: 48-76mm | ● | |
| | Inclined 30° trinocular tube, 360° rotatable, interpupillary distance: 48-76mm, splitting ratio: eyepiece: trinocular=100:0 or 20:80 | | ● |
| Eyepiece | Wide field eyepiece WF10X/22mm, diopter adjustable, tube diameter: 30mm | ● | ● |
| | WF15×/16mm, diopter adjustable | ○ | ○ |
| | WF10×/22mm with 0.1mm eyepiece micrometer | ○ | ○ |
| Infinite Plan Achromatic Objective | 2X/ NA 0.06 | ○ | ○ |
| | 4X/ NA 0.10, WD=12.10mm | ● | ● |
| | 10X/ NA 0.25, WD4.64mm | ● | ● |
| | 20X/ NA 0.40 (S), WD=2.41mm | ● | ● |
| | 40X/ NA 0.66 (S), WD=0.65mm | ● | ● |
| | 60X/ NA 0.80 (S), WD=0.33mm | ○ | ○ |
| | (Oil) 100X/ NA 1.25 (S), WD=0.12mm | ● | ● |
| (Water) 100X/ NA 1.15 (S), WD=0.19mm | ○ | ○ | |
| Infinity Plan Semi- Apochromatic Fluorescent Objectives | 4X/NA=0.16, WD=17.15mm | ○ | ○ |
| | 10X/NA=0.30, WD=7.68mm | ○ | ○ |
| | 20X/NA=0.50, WD=1.96mm | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm | ○ | ○ |
| | 40X/NA=0.75, WD=0.78mm (for TB, no correction of slide cover) | ○ | ○ |
| | (Oil) 100X/NA=1.3, WD=0.15mm | ○ | ○ |
| Nosepiece | Backward quintuple nosepiece | ● | ● |

| | | | |
|------------------------|--|---|---|
| Stage | Rackless (integrated) stage, size: 182mm*140mm, travel range: 77mm*52mm, with two slide holders | ● | ● |
| | Stage size: 175mm*145mm. Travel: 78mm*55mm, scale: 0.1mm. With two slide holders | ○ | ○ |
| Condenser | Swing-out condenser NA 0.9/0.13, with iris diaphragm | ● | ● |
| | Dark field condenser, dry, apply to 4X-40X objective | ○ | ○ |
| | Dark field condenser, wet, apply to 100X objective | ○ | ○ |
| Focusing | Coaxial coarse and fine focusing knob, coarse focusing travel range: 25mm, coarse stroke 42.4mm/rotation, fine stroke 0.2mm/rotation, fine division: 2μm | ● | ● |
| Field Diaphragm | Field diaphragm | ● | ● |
| Koehler | 12V/30W Halogen lamp | ● | ● |
| Illumination | 5W LED lamp | ○ | ○ |
| Polarizing Unit | Analyzer and polarizer | ○ | ○ |
| Phase Contrast Unit | Quintuple hole turret unit with 10X/20X/40X/100X phase contrast objective | ○ | ○ |
| | Independent slot with 10X/20X/40X/100X phase contrast objective | ○ | ○ |
| Fluorescent Attachment | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G and another filters), 100W mercury lamp. | ○ | ○ |
| | B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | ○ | ○ |
| | UV/V/B/G Epi fluorescence unit (six-hole disc media which can be fixed with UV/V/B/G), 5W-LED fluorescence lamp. | ○ | ○ |
| | B or G fluorescence unit, 5W-LED fluorescence lamp. | ○ | ○ |
| | Auramine long pass fluorescence unit, with 5W LED fluorescence lamp | ● | ● |
| | B/G fluorescence unit, 5W-LED fluorescence lamp. | ○ | ○ |
| Video Adapter | 0.35X C-mount adapter, adjustable focus | | ○ |
| | 0.5X C-mount adapter, adjustable focus | | ● |
| | 0.75X C-mount adapter, adjustable focus | | ○ |
| | 1X C-mount adapter, adjustable focus | | ○ |
| | Trinocular digital eyepiece interface | | ○ |
| Photo Adapter | Used for CANON / NIKON / OLYMPUS/ SONY DLSR cameras | | ○ |
| Filter | Blue filter (Φ45) | ● | ● |
| | Green filter (Φ45) | ○ | ○ |
| | Amber filter (Φ45) | ○ | ○ |
| Power Supply | Wide voltage input: 100V~240V | ● | ● |
| Packing | 1 carton/set, Packing Size: 755mm×340mm×440mm, Gross Weight: 17 kgs, Net Weight: 15 kgs | ● | ● |

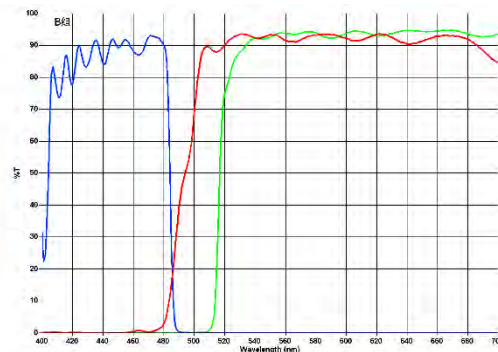
Note: "●" In Table Is Standard outfits, "○" Is Optional Accessories.

Fluorescent filters

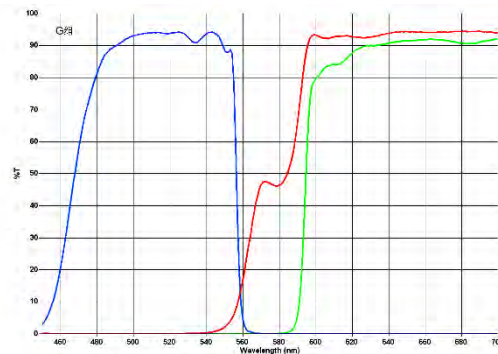
| Auramine O | Wavelength (nm) |
|-------------------|-----------------|
| Exciter | 470Sp |
| Dichroic | 480DRLP |
| Barrier | 485LP |



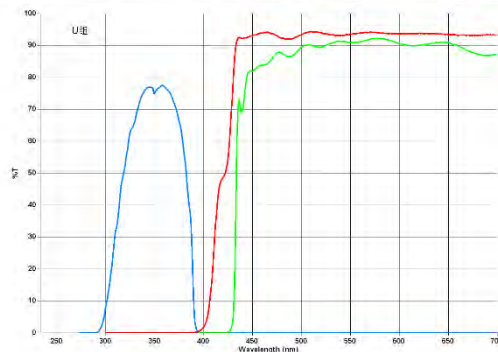
| B Excitation | Wavelength (nm) |
|---------------------|-----------------|
| Exciter | 470/37 |
| Dichroic | 505LP |
| Barrier | 515LP |



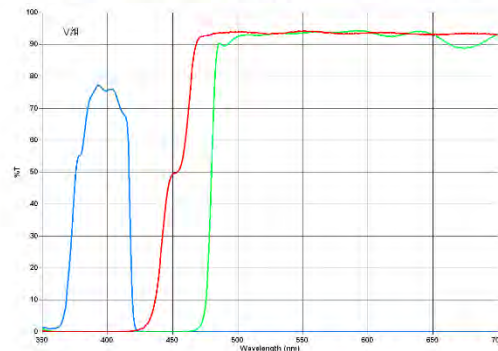
| G Excitation | Wavelength (nm) |
|---------------------|-----------------|
| Exciter | 500-550 |
| Dichroic | 575 |
| Barrier | 590 |



| Uv Excitation | Wavelength (nm) |
|----------------------|-----------------|
| Exciter | 330-380 |
| Dichroic | 400 |
| Barrier | 435 |



| V Excitation | Wavelength (nm) |
|---------------------|-----------------|
| Exciter | 380-420 |
| Dichroic | 430 |
| Barrier | 460 |



32. BS-2064 Biological Microscope



BS-2064B



BS-2064T



BS-2064FB(LED)



BS-2064FT



BS-2064T with Ceramics stage

Introduction

BS-2064 series microscopes are high end microscopes which are specially designed for college education, medical and laboratory teaching and research. With excellent infinity color corrected optical system, new upgraded Koehler illumination system, presents a clear & bright micro-image under each magnification. Ergonomically designed to provide better comfort and experience. The modular design allows for various viewing modes such as brightfield, darkfield, phase contrast, fluorescence and simple polarizing. This series microscopes are widely apply to clinical diagnosis, teaching experiment, pathological test and other micro-fields.

Feature

1. High rigidity body structure



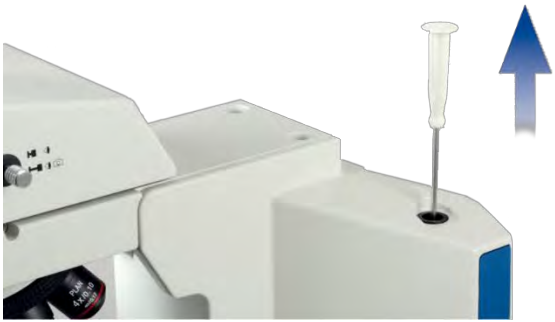
Fire-new designed integrative Y-shaped body, all-metal diecasted under high pressure, High image quality with high stability under every magnification observation. Ensures the test precision of multi-channel fluorescence diagnosis.

2. High precise low position focusing system



Low position high precise coaxial coarse and fine adjustment, with ergonomics design, create the best comfort to operator.

3. Screwdriver storage device



The screwdriver storage device makes full use of the space of the microscope, the screwdriver at fingertips enables users to improve work efficiency.

4. Mechanical stage



(1) Standard 175×145mm right-hand double-layer mechanical stage, damping double slice clamp design, can place two slides at the same time for inspection and comparative analysis.

(2) Optional 150mm×162mm ceramic spray mechanical stage, which is not only wear-resistant and anti-corrosive, but also can reduce platform deformation caused by temperature changes.

(3) Optional 187×166mm super large double-layer mechanical stage, two-way linear rail transmission, left and right hand positions are optional.

5. Safe carrying design



The rear side of the microscope has been designed with a handle position, which makes it safe and easy when carry the whole microscope.

6. Koehler Illumination System



6V 30W transmitted system, presents a bright and uniform field under every magnification. New designed telecentric Koehler illumination system, working with N.A. 1.2/0.22 swing-out achromatic condenser, applies to 2X-100X observation.

7. Disc switching mechanism for filters



Newly designed high-precision disc switching mechanism, is easy to change filters. It guarantees the exact position of the switched filters, can be equipped with six fluorescence filters at most. Selecting driftless high-performance fluorescence filter system, ensures an accurate experiment result of FISH. High transmittance of spectrum without a cross color but a high S/N ratio, promotes dramatically fluorescence imaging contrast. The filter with stray light elimination technology, presents high contrast between image and its background, achieves the best effect of observation.

8. Efficient illumination system

High-graded SiO₂ quartz, with the characteristics of refractory, corrosion-resistant and high UV through rate makes the illumination more uniform and brighter. High temperature resistant composite plastic, with heat insulation, effectively prevent the heat of illuminator from transferring to the body. Alterable field diaphragm with adjustable center, effectively reduce the stray light to obtain the best observation effect.

9. Semi-apochromatic fluorescence objectives

New professional infinity plan semi-apochromatic fluorescence objectives, the best choice for fluorescence observation. Aberration correction and large numerical aperture which is 25% bigger than ordinary objectives, present brighter and clearer image. Adopting high quality environmental protection optical materials, show excellent effect in fluorescence observation. With advanced multi-coating wide-band technology, take the obvious advantages in bandwidth and UV transmittance.

10. High-performance fluorescence filters

High performance fluorescence filters, high spectral transmission, good depth and gradient of spectral lines. No cross color, high S/N ratio, high image contrast. Adopting stray light eliminating technology, high contrast between image and background, creates a perfect observation effect.

11. Power supply for mercury lamp



New digital power control system, displaying operating time and current value, clearly show you the working state of mercury lamp.

Specification

BS-2064B, BS-2064T

| Item | Specification | BS-2064B | BS-2064T | |
|----------------|--|--|----------|---|
| Optical System | Infinity color corrected optical system | ● | ● | |
| Eyepiece | High eye point wide field plan eyepiece PL10X/22mm | ● | ● | |
| | High eye point wide field plan eyepiece PL10X/22mm, with micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL15X/16mm | ○ | ○ | |
| Viewing Head | 30° inclined gemel binocular head, 360° rotatable, interpupillary distance 54-75mm, visual adjustment: ±5 diopter | ● | | |
| | 30° inclined gemel trinocular head, 360° rotatable, interpupillary distance 54-75mm, visual adjustment: ±5 diopter, splitting ratio binocular: trinocular=100:0 or 50:50 | | ● | |
| | 30° inclined gemel trinocular head, 360° rotatable, interpupillary distance 54-75mm, visual adjustment: ±5 diopter, splitting ratio binocular: trinocular=100:0 or 0:100 | ○ | ○ | |
| | 5-35° adjustable, erect image, tilting trinocular head, interpupillary distance: 50-76mm, splitting ratio:100:0 or 0:100 | ○ | ○ | |
| | 30°-60° adjustable, tilting binocular head, 360° rotatable, visual adjustment: ±5 diopter, interpupillary distance: 54-75mm, | ○ | ○ | |
| Objective | Infinity Plan Achromatic Objectives | 2X/NA=0.06, WD=5mm. With frosted glass accessories | ○ | ○ |
| | | 4X/NA=0.1, WD=15mm | ● | ● |
| | | 10X/NA=0.25, WD=10.8mm | ● | ● |
| | | 20X/NA=0.40, WD=1.5mm | ● | ● |
| | | 40X/NA=0.65, WD=0.8mm | ● | ● |
| | | 60X/NA=0.85, WD=0.3mm | ○ | ○ |

| | | | | |
|--------------------------|---|-------------------------|---|---|
| | | 100X/NA=1.25, WD=0.21mm | ● | ● |
| | Infinity Plan Achromatic Phase Contrast Objectives | 10X/NA=0.25, WD=10.8mm | ○ | ○ |
| | | 20X/NA=0.4, WD=1.5mm | ○ | ○ |
| | | 40X/NA=0.65, WD=0.8mm | ○ | ○ |
| | | 100X/NA=1.25, WD=0.18mm | ○ | ○ |
| | Infinity Plan Semi-APO Fluorescent Objective | 4X/NA=0.13, WD=16.4mm | ○ | ○ |
| | | 10X/NA=0.3, WD=8.1mm | ○ | ○ |
| | | 20X/NA=0.5, WD=2.0mm | ○ | ○ |
| | | 40X/NA=0.75, WD=0.74mm | ○ | ○ |
| | 100X/NA=1.28, WD=0.14mm | ○ | ○ | |
| Nosepiece | Inward quintuple nosepiece | ● | ● | |
| Stage | 175*145mm double layer mechanical stage (X, Y moving hand wheel in right or left hand), detachable, specially processed for corrosion and wear resistance, moving range: 76x50mm, precision: 0.1mm. | ● | ● | |
| | 150*162mm double layer mechanical stage, moving range: 76x50mm, precision: 0.1mm. Only X-direction wire movement, ceramics coated. | ○ | ○ | |
| | 187*166mm double layer mechanical stage (X, Y moving hand wheel in right or left hand), moving range: 80x55mm, precision: 0.1mm. Tension adjustable. | ○ | ○ | |
| Condenser | N.A.1.2/0.22 swing-out type achromatic condenser. Variable aperture with scale indication | ● | ● | |
| | N.A.0.9 swing-out type achromatic condenser, for 10X, 20X, 40X, 100X phase contrast observation | ○ | ○ | |
| | N.A.1.25 quintuple phase contrast condenser, for 10X, 20X, 40X, 100X phase contrast observation and 4X-40X black field observation | ○ | ○ | |
| | N.A.0.9 dry dark field condenser | ○ | ○ | |
| | N.A.1.25 oil dark field condenser. | ○ | ○ | |
| Focusing | Coaxial focusing mechanism, coarse range: 30mm, fine precision 2um, with upper limited and tension adjustment. Stage height adjustable | ● | ● | |
| Transmitted Illumination | 6V 30W halogen lamp house, pre-centered | ● | ● | |
| | 3W high brightness LED lamp (cool color or warm color, color temperature of cool color is 4750K-5500K, color temperature of warm color is 2850K-3250K) | ○ | ○ | |
| | Long lasting halogen light bulb, 6V 30W | ● | ● | |
| Polarizer & Analyzer | Polarizer (Φ45) | ○ | ○ | |
| | 360° rotatable polarizer insert | ○ | ○ | |
| | Color sensitive film (λ insert) | ○ | ○ | |
| Filters | Yellow color filter (Φ45) | ○ | ○ | |
| | IF55 filter (Φ45) | ○ | ○ | |
| | LBD filter (Φ45), only for halogen lamps | ● | ● | |
| | neutral filter (Φ45) | ○ | ○ | |
| | Attenuation filter (Transmittance 25%) | ○ | ○ | |
| | Attenuation filter (Transmittance 50%) | ○ | ○ | |
| | Frosted glass accessories, for 2X objectives | ○ | ○ | |

| | | | |
|------------------|---|---|---|
| C-mount Adapters | 0.35X C-mount adapter, focus adjustable (Not recommended for fluorescence/metallographic/polarizing/multi person viewing) | ○ | ○ |
| | 0.5X C-mount adapter, focus adjustable | ○ | ○ |
| | 0.65X C-mount adapter, focus adjustable | ○ | ○ |
| | 1X C-mount adapter, focus adjustable | ○ | ○ |
| Others | Centering telescope (Φ30) | ○ | ○ |
| | Electronic eyepiece connector | ○ | ○ |
| | High precision micrometer, 0.01mm increment | ○ | ○ |
| | Ordinary micrometer, 0.01mm increment | ○ | ○ |
| | Internal hexagonal Spanner M5 | ● | ● |

BS-2064FT, BS-2064FT(LED)

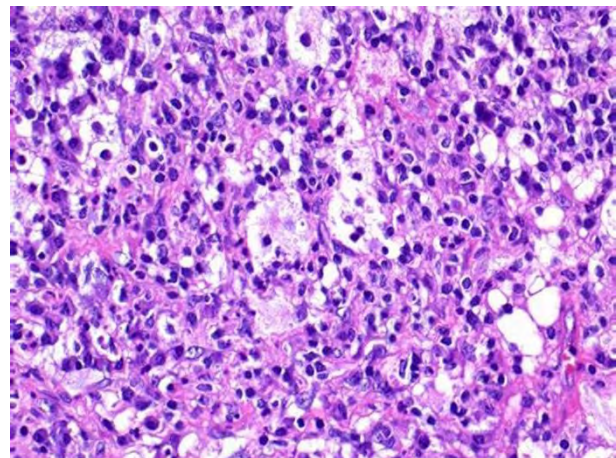
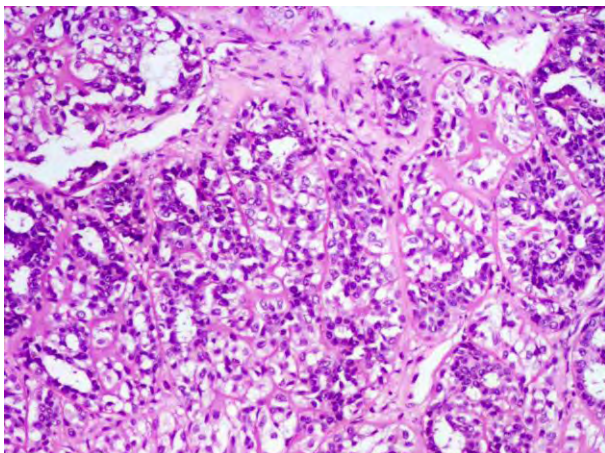
| Item | Specification | BS-2064FT | BS-2064FT(LED) | |
|----------------|--|--|----------------|---|
| Optical System | Infinity color corrected optical system | ● | ● | |
| Eyepiece | High eye point wide field plan eyepiece PL10X/22mm | ● | ● | |
| | High eye point wide field plan eyepiece PL10X/22mm, with micrometer | ○ | ○ | |
| | High eye point wide field plan eyepiece PL15X/16mm | ○ | ○ | |
| Viewing Head | 30° inclined gemel binocular head, 360° rotatable, interpupillary distance 54-75mm, visual adjustment: ±5 diopter | ○ | ○ | |
| | 30° inclined gemel trinocular head, 360° rotatable, interpupillary distance 54-75mm, visual adjustment: ±5 diopter, splitting ratio binocular: trinocular=100:0 or 50:50 | ○ | ○ | |
| | 30° inclined gemel trinocular head, 360° rotatable, interpupillary distance 54-75mm, visual adjustment: ±5 diopter, splitting ratio binocular: trinocular=100:0 or 0:100 | ● | ● | |
| | 5-35° adjustable, erect image, tilting trinocular head, interpupillary distance: 50-76mm, splitting ratio:100:0 or 0:100 | ○ | ○ | |
| | 30°-60° adjustable, tilting binocular head, 360° rotatable, visual adjustment: ±5 diopter, interpupillary distance: 54-75mm, | ○ | ○ | |
| Objective | Infinity Plan Achromatic Objectives | 2X/NA=0.06, WD=5mm. With frosted glass accessories | ○ | ○ |
| | | 4X/NA=0.1, WD=15mm | ○ | ○ |
| | | 10X/NA=0.25, WD=10.8mm | ○ | ○ |
| | | 20X/NA=0.40, WD=1.5mm | ○ | ○ |
| | | 40X/NA=0.65, WD=0.8mm | ○ | ○ |
| | | 60X/NA=0.85, WD=0.3mm | ○ | ○ |
| | | 100X/NA=1.25, WD=0.21mm | ○ | ○ |
| | Infinity Plan Achromatic Phase Contrast Objectives | 10X/NA=0.25, WD=10.8mm | ○ | ○ |
| | | 20X/NA=0.4, WD=1.5mm | ○ | ○ |
| | | 40X/NA=0.65, WD=0.8mm | ○ | ○ |
| | | 100X/NA=1.25, WD=0.18mm | ○ | ○ |
| | Infinite Plan Semi-APO Fluorescent Objective | 4X/NA=0.13, WD=16.4mm | ● | ● |
| | | 10X/NA=0.3, WD=8.1mm | ● | ● |

| | | | | |
|--------------------------|---|-------------------------|---|---|
| | | 20X/NA=0.5, WD=2.0mm | ● | ● |
| | | 40X/NA=0.75, WD=0.74mm | ● | ● |
| | | 100X/NA=1.28, WD=0.14mm | ● | ● |
| Nosepiece | Inward quintuple nosepiece | | ● | ● |
| Stage | 175*145mm double layer mechanical stage (X, Y moving hand wheel in right or left hand), detachable, specially processed for corrosion and wear resistance, moving range: 76x50mm, precision: 0.1mm. | | ● | ● |
| | 150*162mm double layer mechanical stage, moving range: 76x50mm, precision: 0.1mm. Only X-direction wire movement, ceramics coated. | | ○ | ○ |
| | 187*166mm double layer mechanical stage (X, Y moving hand wheel in right or left hand), moving range: 80x55mm, precision: 0.1mm. Tension adjustable. | | ○ | ○ |
| Condenser | N.A.1.2/0.22 swing-out type achromatic condenser. Variable aperture with scale indication | | ● | ● |
| | N.A.0.9 swing-out type achromatic condenser, for 10X, 20X, 40X, 100X phase contrast observation | | ○ | ○ |
| | N.A.1.25 quintuple phase contrast condenser, for 10X, 20X, 40X, 100X phase contrast observation and 4X-40X black field observation | | ○ | ○ |
| | N.A.0.9 dry dark field condenser | | ○ | ○ |
| | N.A.1.25 oil dark field condenser. | | ○ | ○ |
| Focusing | Coaxial focusing mechanism, coarse range: 30mm, fine precision 2um, with upper limited and tension adjustment. Stage height adjustable | | ● | ● |
| Transmitted Illumination | 6V 30W halogen lamp house, pre-centered | | ● | ● |
| | 3W high brightness LED lamp (cool color or warm color, color temperature of cool color is 4750K-5500K, color temperature of warm color is 2850K-3250K) | | ○ | ○ |
| | Long lasting halogen light bulb, 6V 30W | | ● | ● |
| Polarizer & Analyzer | Polarizer (Φ45) | | ○ | ○ |
| | 360° rotatable polarizer insert | | ○ | ○ |
| | Color sensitive film (λ insert) | | ○ | ○ |
| Filters | Yellow color filter (Φ45) | | ○ | ○ |
| | IF55 filter (Φ45) | | ○ | ○ |
| | LBD filter (Φ45), only for halogen lamps | | ● | ● |
| | neutral filter (Φ45) | | ○ | ○ |
| | Attenuation filter (Transmittance 25%) | | ● | ○ |
| | Attenuation filter (Transmittance 50%) | | ○ | ○ |
| | Frosted glass accessories, for 2X objectives | | ○ | ○ |
| Fluorescent Module | Disc-shaped reflective fluorescent illuminator with 6 holes, with variable aperture and field diaphragm, center adjustable, with fluorescence light barrier (BS20640052) | | ● | |
| | 100W mercury lamp house | | ● | |
| | Power box for mercury lamp | | ● | |
| | 100W mercury lamp bulb (OSRAM) | | ● | |
| | 100W mercury lamp bulb | | ○ | |
| | UV1 filter fluorescent module, for BS20640052 | | ● | |

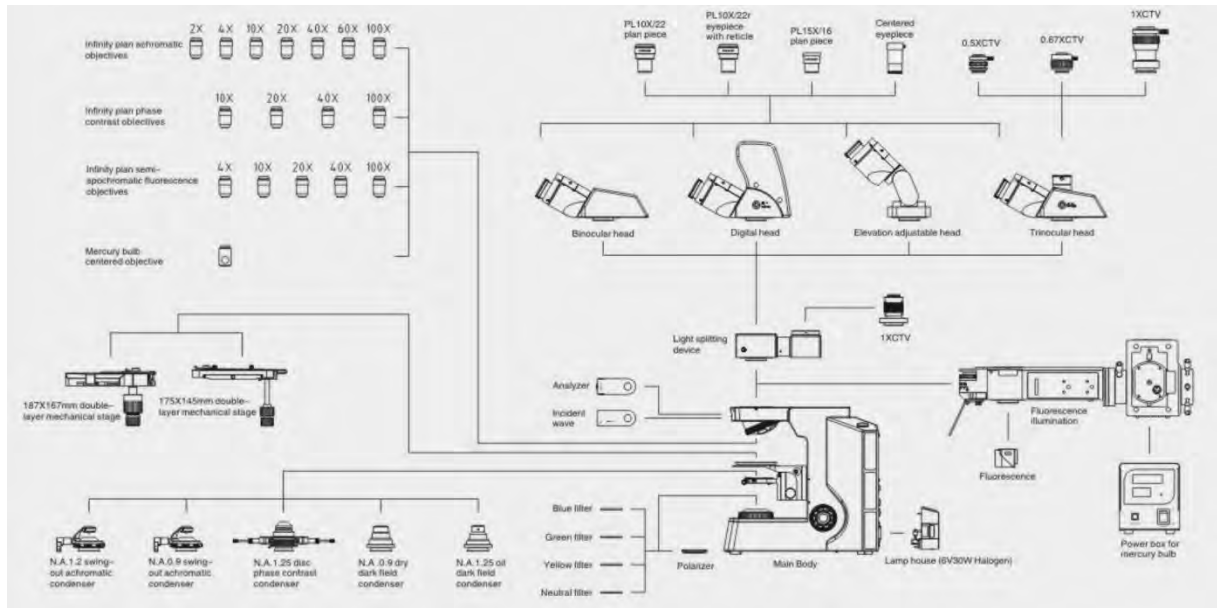
| | | | |
|------------------|---|---|---|
| | V1 filter fluorescent module, for BS20640052 | ○ | |
| | B1 filter fluorescent module, for BS20640052 | ● | |
| | G1 filter fluorescent module, for BS20640052 | ● | |
| | Four channel LED fluorescent illuminator with fluorescent eye guard, external wide voltage transformer, input 100V-240V, output 6V/2A | | ● |
| | B1 band pass filter LED fluorescent module, for LED fluorescent lamp with a center wavelength of 470nm | | ● |
| | G1 band pass filter LED fluorescent module, for LED fluorescent lamp with a center wavelength of 560nm | | ● |
| | UV1 band pass filter LED fluorescent module, for LED fluorescent lamp with a center wavelength of 385nm | | ● |
| | B4 long pass filter LED fluorescent module, for LED fluorescent lamp with a center wavelength of 455nm | | ○ |
| | External LED fluorescent charging power supply | | ○ |
| | Fluorescence centering objective | ● | ○ |
| | Fluorescent free oil 30ml | ● | ● |
| C-mount Adapters | 0.35X C-mount adapter, focus adjustable (Not recommended for fluorescence/metallographic/polarizing/multi person viewing) | ○ | ○ |
| | 0.5X C-mount adapter, focus adjustable | ○ | ○ |
| | 0.65X C-mount adapter, focus adjustable | ○ | ○ |
| | 1X C-mount adapter, focus adjustable | ○ | ○ |
| Others | Centering telescope (Φ30) | | |
| | Electronic eyepiece connector | ○ | ○ |
| | High precision micrometer, 0.01mm increment | ○ | ○ |
| | Ordinary micrometer, 0.01mm increment | ○ | ○ |
| | Internal hexagonal Spanner M5 | ● | ● |

Note: ● Standard Outfit, ○ Optional

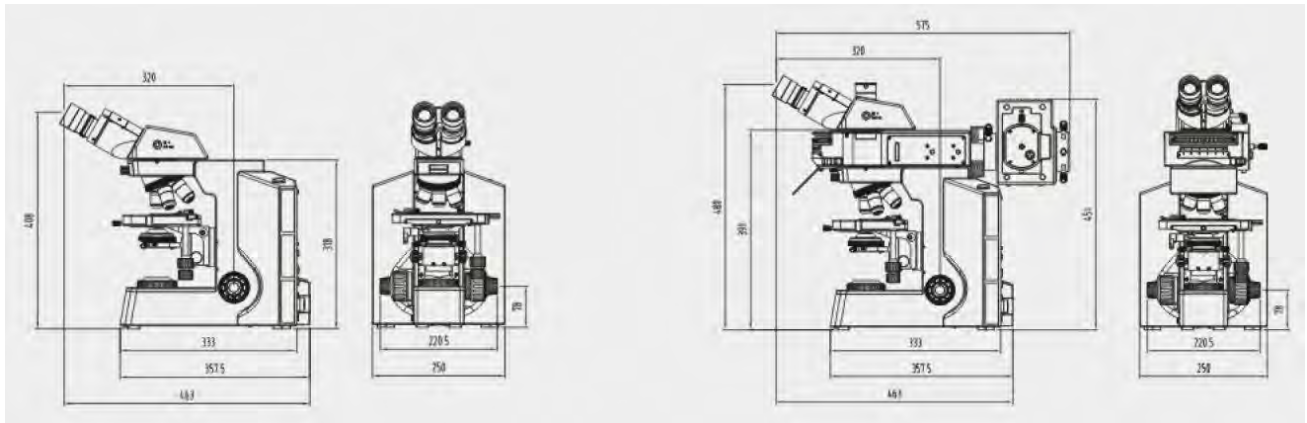
Sample Image



System Diagram



Dimension



33. BS-2070 Biological Microscope



BS-2070B

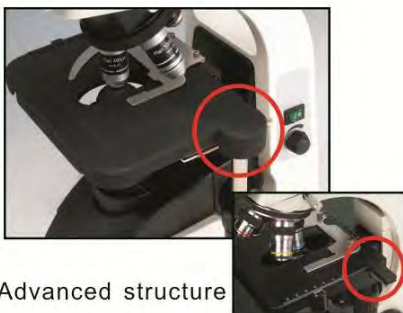


BS-2070T

Introduction

BS-2070 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory study. It adopts an Infinite optical system, beautiful structure and ergonomic design. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, this biological microscope makes your works enjoyable.

Features



Advanced structure

Traditional structure

1. Excellent image quality with infinite optical system.
2. Comfortable operating with ergonomic design.
3. Better illumination with sliding-in centerable condenser, convenient to replace phase contrast and dark field condenser.
4. Advanced design of mechanical stage structure prevents the scratches of users.

Applications

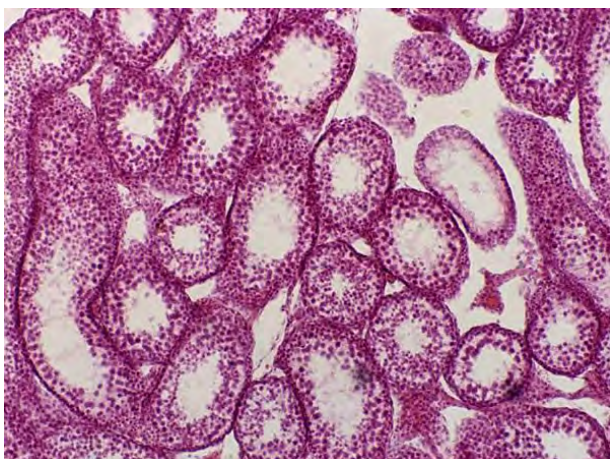
BS-2070 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specifications

| Model | | BS-2070B | BS-2070T |
|------------------|--|----------|----------|
| Optical System | Infinite Optical System | ● | ● |
| Viewing Head | Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm | ● | |
| | Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm | | ● |
| | Built-in Digital Camera, 3.0 Mega Pixels | ○ | ○ |
| Eyepiece | WF10×/20 | ● | ● |
| | WF15×/16 | ○ | ○ |
| | WF20×/12 | ○ | ○ |
| Objective | Infinite Plan Achromatic Objective 4×(NA0.10, W.D.15.5mm), 10×(NA0.25, W.D.5.02mm), 40×(NA0.65,W.D.0.60mm), 100×(NA1.25, W.D.0.13mm) | ● | ● |
| | Infinite Plan Achromatic Objective 20×(NA0.40, W.D.0.81), 60×(NA0.80, W.D.0.27) | ○ | ○ |
| Nosepiece | Backward Quadruple Nosepiece | ● | ● |
| | Backward Quintuple Nosepiece | ○ | ○ |
| Focusing | Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation | ● | ● |
| Stage | Rectangular 216×150mm, Cross Travel 78×54mm, Using Low-positioned X/ Y Coaxial Control Knob, Can Hold Two Sides | ● | ● |
| Condenser | Abbe Condenser NA1.25 with Aperture Diaphragm | ● | ● |
| Illumination | LED illumination 3W, brightness adjustable | ● | ● |
| | 12V/20W Halogen Lamp, Brightness Adjustable | ○ | ○ |
| Optional | Photo attachment, Video attachment, Polarization set, Phase contrast kit | ○ | ○ |
| Dimension & G.W. | 38cm*26cm*51cm, 9kg | ● | ● |

Note: ●Standard Outfit, ○Optional

Sample Images



34. BS-2073 Biological Microscope



BS-2073B



BS-2073T



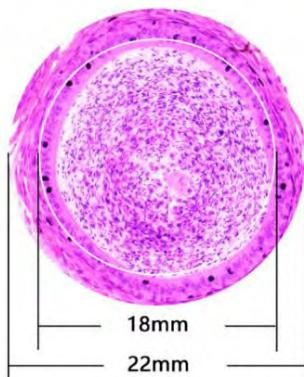
BS-2073FB(LED)

Introduction

BS-2073 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory research. With excellent optical quality, large field of view, excellent objective lens performance, clear and reliable imaging. Ergonomically designed to provide better comfort and experience, focus on the user's operating habits, and constantly optimize the details. The modular design allows for various viewing modes such as brightfield, darkfield, fluorescence, and simple polarizing. The intelligent design makes the microscope teaching more flexible and the teaching effect is better. Low maintenance costs and environmentally friendly.

Features

1. Excellent Optical Design



- (1) NIS infinite Optical System. NIS infinite plan objectives can provide high contrast and very flat image up to FN22mm, the system always brings you sharp, high resolution and high signal to noise ratio imaging.
- (2) 22mm Wide Field of View. The microscopes achieve the wide field of 22mm view with 10× eyepieces. The eyepiece adopts a flat field distortion-free design to prevent the edge of the field from being imaginary and stray light.

- (3) Various Observation methods. Besides bright field observation, dark field, fluorescent and simple polarizing observation methods are optional.

| Observation Methods | Bright Field | Dark Field | Fluorescent | Simple Polarizing |
|---------------------|--------------|------------|-------------|-------------------|
| | ● | ● | ● | ● |



- (4) Multifunctional Universal Condenser. BS-2073 series microscopes adopt a universal condenser for bright field and dark field. The observation methods could be quickly switched by changing the dark field slider. The bright field slider is universal for 4×-100× objectives, simple and fast to use. The aperture diaphragm of the condenser is easily set to get exact value of diaphragm to correspond with different objectives.



- (5) LED EPI-Fluorescent Illumination. The LED EPI-Fluorescent Illumination is safe and convenient. There is no need to warm up or cool down, and also no need to align the bulb. The life time of LED bulb is up to 5000 hours. There are two filters position available and switch is fast and easy.

2. Infinite Plan Objectives

The BS-2073 series microscopes have been fully optimized for various of microscopic applications, especially for beginners and the users with long time operation. The objectives provide high quality images and are easy to use.



- (1) Plan Objective. With infinite plan objective, clear and flat image is over the entire field of view, image reproduction is better.
- (2) 100× Water-immersion Objective. Ordinary 100× oil-immersion objective needs to use cedar oil as the observation medium. After use, it needs to be cleaned with ether alcohol or xylene, which is easy to cause air pollution and improper cleaning. The water-immersion objective uses water as the medium, it is easy to clean, it also reduces the damage to the user's health and environmental pollution.

- (3) 40× LWD Objective. The working distance of 40× objective can be up to 1.5mm, avoiding the contamination from residual immersion oil or water when converted from 100× to 40× objective.

3. This is an unbounded microscope

Multifunctional digital head is optional, the user does not have to be confined in front of the microscope. Instead, it can be used for mobile microscope teaching and outdoor field observation through mobile terminals and external mobile power. The objective, eyepiece and observation tube have been effectively anti-mold treated, so it can ensure a consistently clear image and extend the life of the microscope, even when working in hot and humid environments.



- (1) Multifunctional Digital Head. The built-in camera, supporting Android, IOS, Windows operating system, wired and Wifi modes. Images can be output to the external device in real time, there is no data cable connection, the operator can move more freely.



- (2) Professional microscopic imaging software. Microscopic imaging observation, analysis and processing can be performed on external devices, including photographing, measurement, image adjustment, storage, synthesis, etc.

- (3) Perform image preview and processing by scan with Mobile devices. By scanning the QR code on the microscope, installing the APP and identifying the microscope, you can view the microscopic image on your phone and tablet.



- (4) External rechargeable battery can be used as the power source. A USB charging port is reserved on the back of the microscope, external rechargeable portable battery can be connected to this port and used as power source of the microscope. So this microscope can be used outdoor or during power outages.

4. Easier to store and transport

The microscope is compact and can be placed in an ordinary classroom closet. It has a special carrying handle, and it is also light weight and stable. There is a cord rest on back of the microscope to store the long power cord, improve the cleanliness of the laboratory and reduce the tripping accident which may be caused by the long power cord during the carrying process. The wooden storage box is optional, it is very convenient for storage and carrying.



5. Ergonomic Design

In daily scientific research teaching and pathological diagnosis, working in front of the microscope for a long time has become normal, this always leads to fatigue and physical discomfort, thereby reducing work efficiency. BS-2073 series microscopes have adopted high eye-point, low-hand focus mechanism, low-hand stage and other ergonomic designs to ensure the user can perform microscope operation in the most comfortable situation. The focus knob, illumination control knob and stage handle are all proximal. The user can put both hands on the table while working, and can operate the microscope with minimal movement.



Application

BS-2073 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

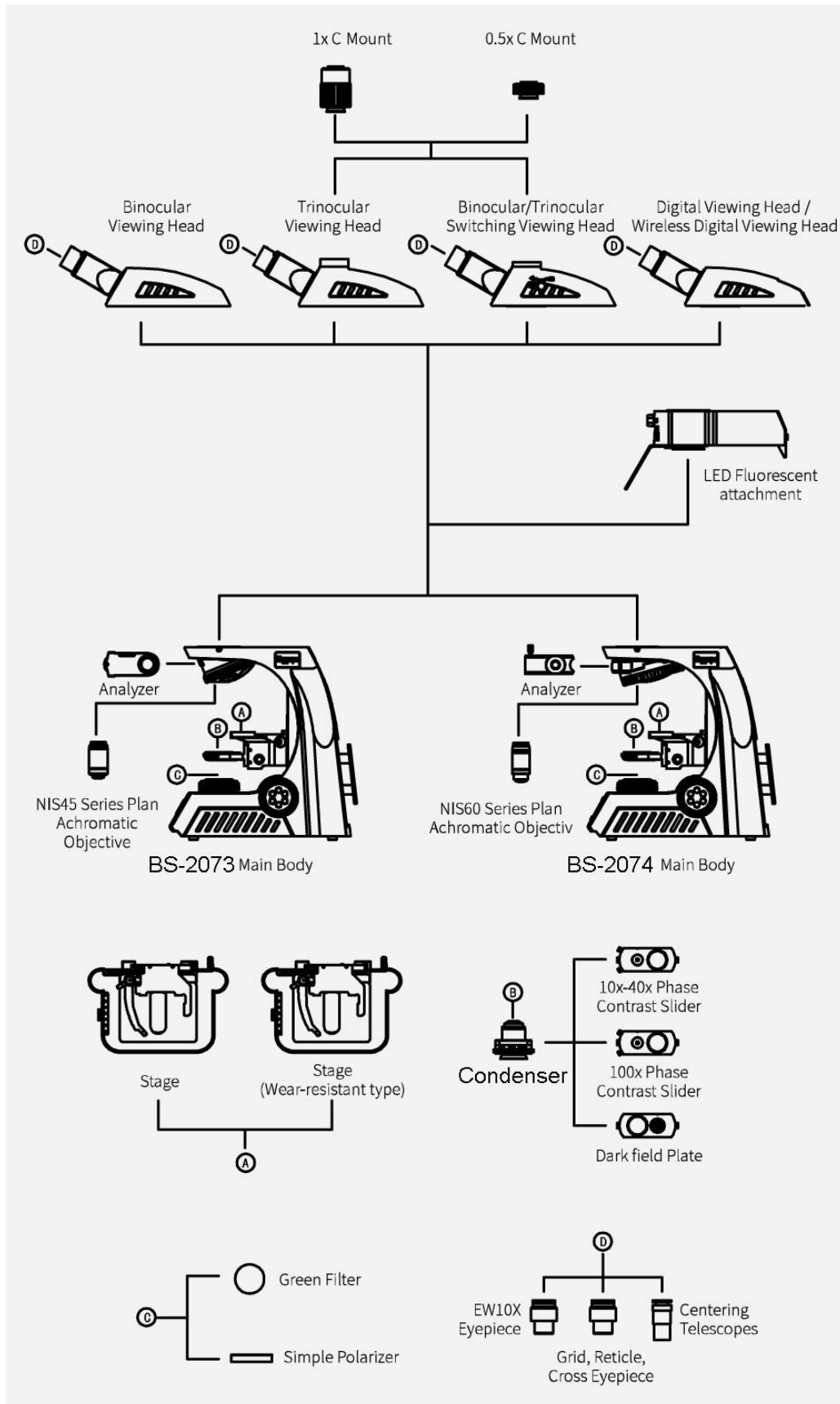
Specification

| Item | Specification | BS-2073B | BS-2073T |
|----------------|--------------------------------------|----------|----------|
| Optical System | Infinite Optical System | • | • |
| Eyepiece | Extra wide field eyepiece EW10×/22mm | • | • |

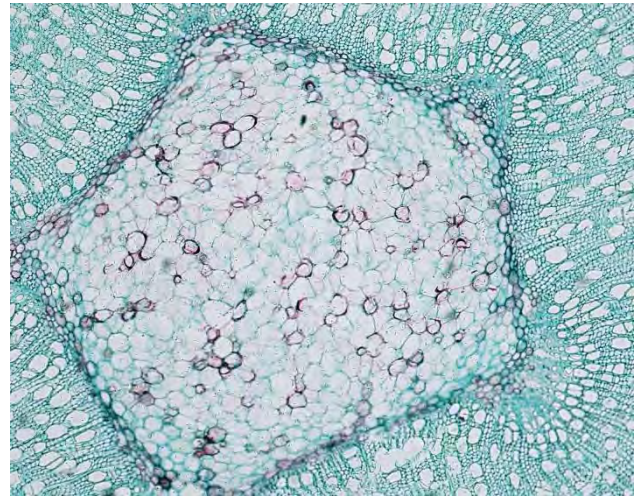
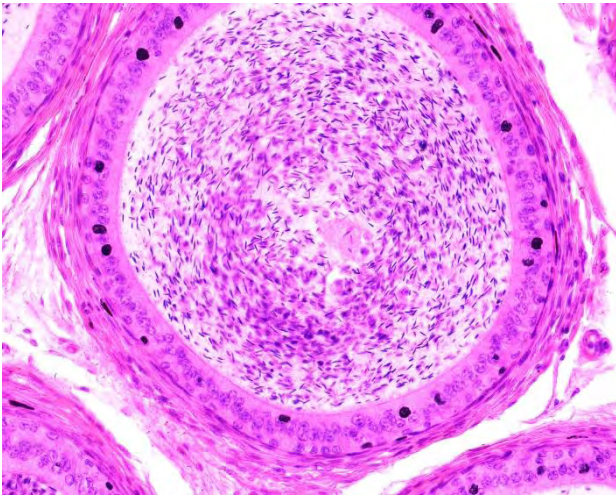
| | | | |
|------------------------|--|---|---|
| | Wide field eyepiece WF15×/16 | ○ | ○ |
| | Wide field eyepiece WF20×/12 | ○ | ○ |
| Viewing Head | Seidentopf binocular viewing head, inclined at 30°, 360° rotatable, interpupillary 47-78mm, anti-fungus, tube diameter 30mm | ● | |
| | Seidentopf trinocular viewing head, inclined at 30°, 360° rotatable, interpupillary 47-78mm, splitting ratio 5:5, anti-fungus, tube diameter 30mm | | ● |
| | Seidentopf binocular viewing head with built-in 5.0mp digital camera, usb2.0 output interface, inclined at 30°, 360° rotatable, interpupillary 47-78mm, anti-fungus, tube diameter 30mm | ○ | ○ |
| | Seidentopf binocular viewing head with built-in 5.0mp digital camera, HDMI and Wifi output interface, inclined at 30°, 360° rotatable, interpupillary 47-78mm, anti-fungus, tube diameter 30mm | ○ | ○ |
| Objective | NIS45 Infinite Plan Achromatic Objective 4× (N.A.:0.10, W.D.:20.6mm) | ● | ● |
| | NIS45 Infinite Plan Achromatic Objective 10× (N.A.:0.25, W.D.:18.0mm) | ● | ● |
| | NIS45 Infinite Plan Achromatic Objective 40× (N.A.:0.65, W.D.:1.5mm) | ● | ● |
| | NIS45 Infinite Plan Achromatic Objective 100× (Oil, N.A.:1.25, W.D.:0.16mm) | ● | ● |
| | NIS45 Infinite Plan Achromatic Objective 20× (N.A.:0.40, W.D.:6.4mm) | ○ | ○ |
| | NIS45 Infinite Plan Achromatic Objective 60× (N.A.:0.80, W.D.:0.3mm) | ○ | ○ |
| | NIS45 Infinite Plan Achromatic Objective 100× (Water, N.A.:1.10, W.D.:0.2mm) | ○ | ○ |
| Nosepiece | Backward quintuple nosepiece | ● | ● |
| Stage | Rackless stage, size 230mm*150mm, moving range 78mm*54mm | ● | ● |
| Condenser | Inserted abbe condenser NA1.25 (Including empty plate) | ● | ● |
| | Bright field-dark field plate | ○ | ○ |
| Focusing | Coaxial coarse and fine adjustment, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, fine division 0.002mm, moving range 30mm | ● | ● |
| Illumination | 1W LED illumination, brightness adjustable | ● | ● |
| Fluorescent Attachment | 3W LED, two filter cubes (B, B1, G, U, V, R, Auramine O can be combined), fly-eye lens illumination | ○ | ○ |
| Other Accessories | 1× C-mount adapter | ○ | ○ |
| | 0.5× C-mount adapter | ○ | ○ |
| | Simple polarization set | ○ | ○ |
| | Digital Camera | ○ | ○ |
| Filter | Green | ○ | ○ |
| | Blue, Yellow, Red | ○ | ○ |
| Package | 1pc/carton, Carton size: 48cm*33cm*60cm, Net/Gross Weight: 10.5kg/12.5kg | ● | ● |

Note: ●Standard Outfit, ○Optional

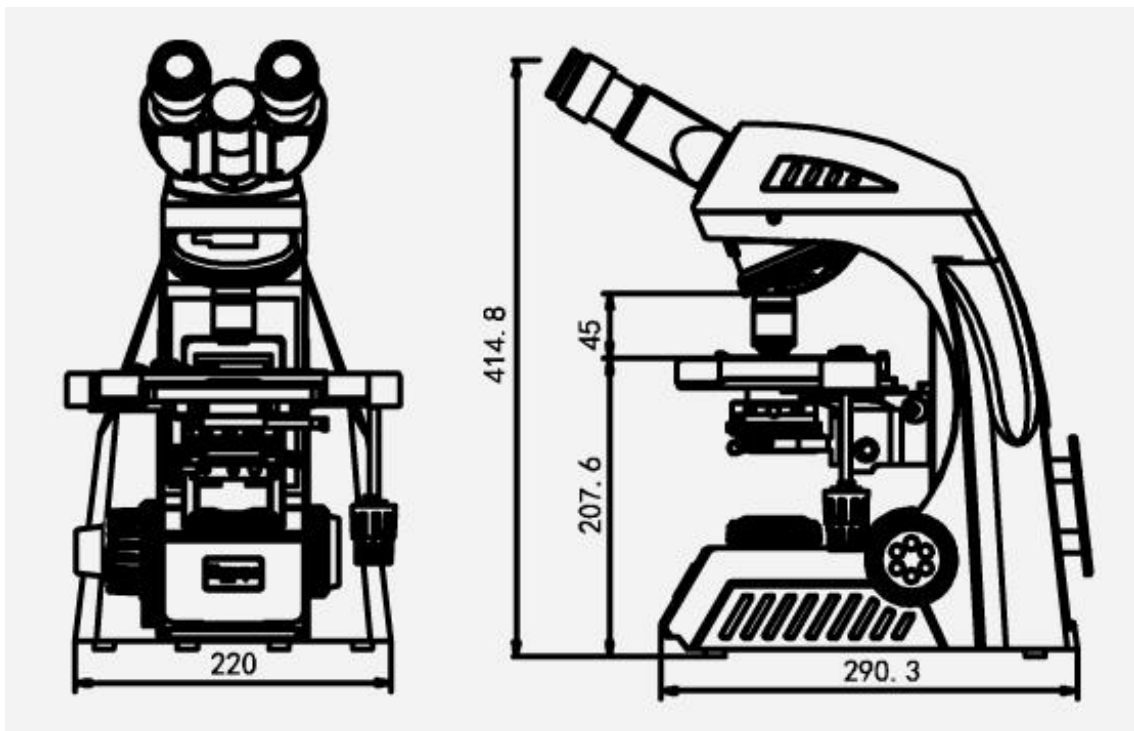
System Diagram



Sample Image



Dimension



Unit:mm

35. BS-2074 Biological Microscope



BS-2074B



BS-2074T



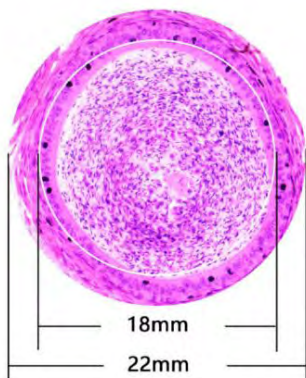
BS-2074FB(LED)

Introduction

BS-2074 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory research. With excellent optical quality, large field of view, excellent objective lens performance, clear and reliable imaging. Ergonomically designed to provide better comfort and experience, focus on the user's operating habits, and constantly optimize the details. The modular design allows for various viewing modes such as brightfield, darkfield, phase contrast, fluorescence and simple polarizing. The intelligent design makes the microscope teaching more flexible and the teaching effect is better. Low maintenance costs and environmentally friendly.

Features

1. Excellent Optical Design



- (1) NIS infinite Optical System. NIS infinite plan objectives can provide high contrast and very flat image up to FN22mm, the system always brings you sharp, high resolution and high signal to noise ratio imaging.
- (2) 22mm Wide Field of View. The microscopes achieve the wide field of 22mm view with 10× eyepieces. The eyepiece adopts a flat field distortion-free design to prevent the edge of the field from being imaginary and stray light.

(3) Various Observation methods. Besides bright field observation, dark field, phase contrast, fluorescent and simple polarizing observation methods are optional.

| Observation Methods | Bright Field | Dark Field | Phase Contrast | Fluorescent | Simple Polarizing |
|---------------------|--------------|------------|----------------|-------------|-------------------|
| | ● | ● | ● | ● | ● |



- (4) Multifunctional Universal Condenser. BS-2074 series microscopes adopt a universal condenser for bright field, dark field and phase contrast. The observation methods could be quickly switched by changing the dark field and phase contrast slider. The phase contrast and bright field slider is universal for 4x-100x objectives, simple and fast to use. The aperture diaphragm of the condenser is easily set to get exact value of diaphragm to correspond with different objectives.



- (5) LED EPI-Fluorescent Illumination. The LED EPI-Fluorescent Illumination is safe and convenient. There is no need to warm up or cool down, and also no need to align the bulb. The life time of LED bulb is up to 5000 hours. There are two filters position available and switch is fast and easy.

2. Infinite Plan Objectives

The BS-2074 series microscopes have been fully optimized for various of microscopic applications, especially for beginners and the users with long time operation. The objectives provide high quality images and are easy to use.



- (1) Plan Objective. With infinite plan objective, clear and flat image is over the entire field of view, image reproduction is better.
- (2) 100x Water-immersion Objective. Ordinary 100x oil-immersion objective needs to use cedar oil as the observation medium. After use, it needs to be cleaned with ether alcohol or xylene, which is easy to cause air pollution and improper cleaning. The water-immersion objective uses water as the medium, it is easy to clean, it also reduces the damage to the user's health and environmental pollution.

- (3) 40× LWD Objective. The working distance of 40× objective can be up to 1.5mm, avoiding the contamination from residual immersion oil or water when converted from 100× to 40× objective.

3. This is an unbounded microscope

Multifunctional digital head is optional, the user does not have to be confined in front of the microscope. Instead, it can be used for mobile microscope teaching and outdoor field observation through mobile terminals and external mobile power. The objective, eyepiece and observation tube have been effectively anti-mold treated, so it can ensure a consistently clear image and extend the life of the microscope, even when working in hot and humid environments.



- (1) Multifunctional Digital Head. The built-in camera, supporting Android, IOS, Windows operating system, wired and Wifi modes. Images can be output to the external device in real time, there is no data cable connection, the operator can move more freely.

- (2) Professional microscopic imaging software. Microscopic imaging observation, analysis and processing can be performed on external devices, including photographing, measurement, image adjustment, storage, synthesis, etc.

- (3) Perform image preview and processing by scanning with Mobile devices. By scanning the QR code or microscope, installing the APP and identifying the microscope, you can view the microscopic image on your phone and tablet.



- (4) External rechargeable battery can be used as the power source. A USB charging port is reserved on the back of the microscope, external rechargeable portable battery can be connected to this port and used as power source of the microscope. So this microscope can be used outdoor or during power outages.



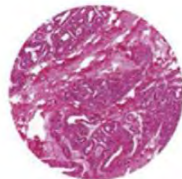
4. Intelligent operating system

- (1) Coded Nosepiece.

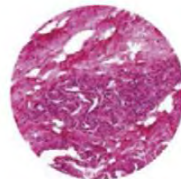
The BS-2074 series microscope can memorize the illumination brightness when using each objective. When the objective has been changed, the light intensity will be automatically adjusted to reduce visual fatigue and improve work efficiency.



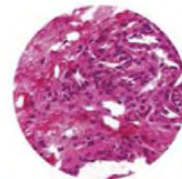
4X



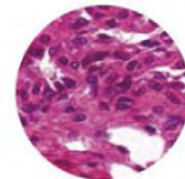
10X



20X



40X



100X



- (2) Use a dimming knob to achieve multiple functions.
 - One Click: Enter standby status
 - Double Clicks: Light lock or unlock
 - Rotation: Adjust brightness
 - Press + Up-spin: Switch to the upper light source
 - Press + Down-spin: Switch to the under light source
 - Press 3 seconds: Set the time of turning off the light after leaving

- (3) The display of microscope working status.

The LCD on the front of the microscope can display the working status of the microscope, including magnification, light intensity, sleepy model and so on.



Start& working mode



Lock mode



ECO mode



Sleep mode

5. Easier to store and transport

The microscope is compact and can be placed in an ordinary classroom closet. It has a special carrying handle, and it is also light weight and stable. There is a cord rest on back of the microscope to store the long power cord, improve the cleanliness of the laboratory and reduce the tripping accident which may be caused by the long power cord during the carrying process. The wooden storage box is optional, it is very convenient for storage and carrying.



6. Ergonomic Design

In daily scientific research teaching and pathological diagnosis, working in front of the microscope for a long time has become normal, this always leads to fatigue and physical discomfort, thereby reducing work efficiency. BS-2074 series microscopes have adopted high eye-point, low-hand focus mechanism, low-hand stage and other ergonomic designs to ensure the user can perform microscope operation in the most comfortable situation. The focus knob, illumination control knob and stage handle are all proximal. The user can put both hands on the table while working, and can operate the microscope with minimal movement.



Application

BS-2074 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

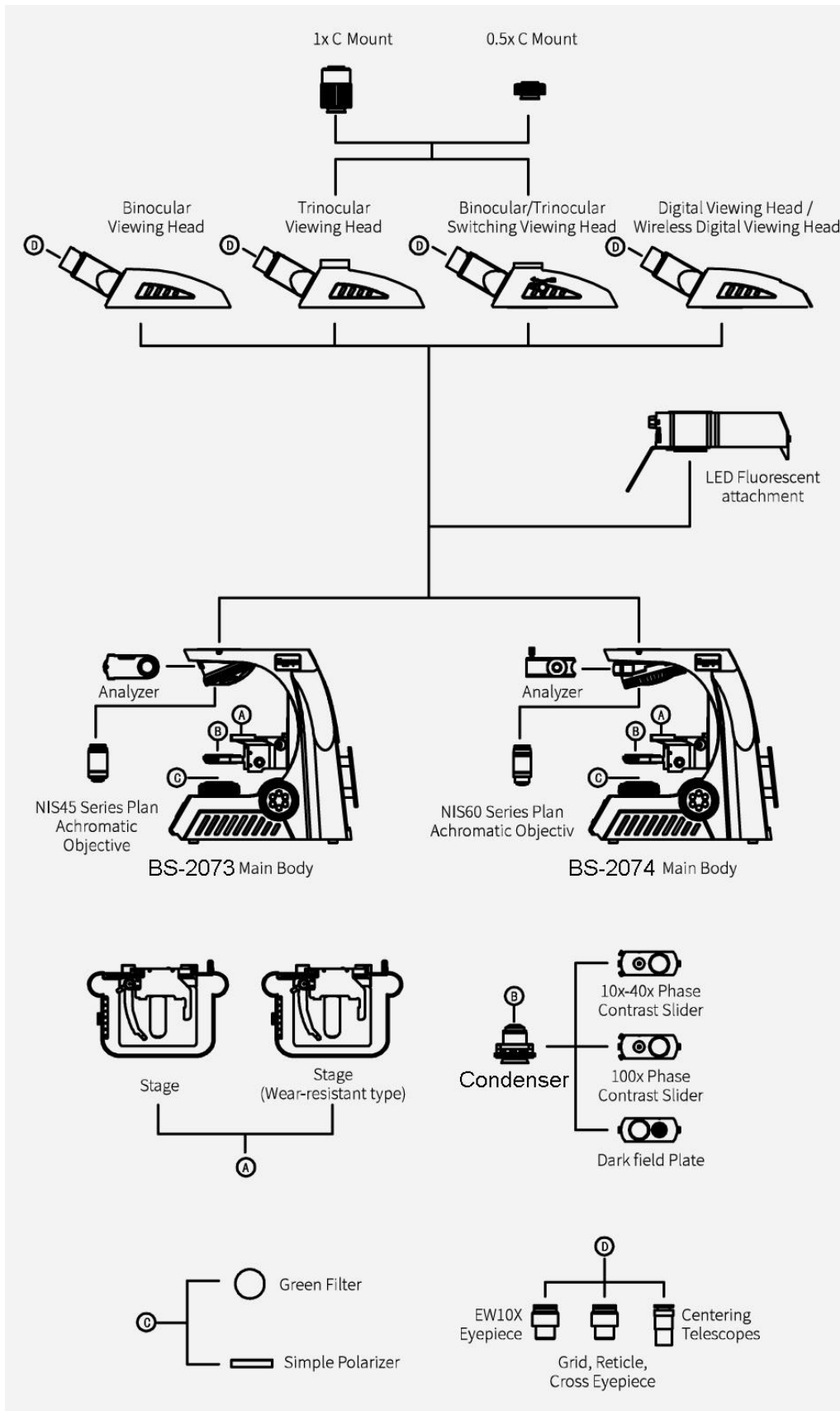
Specification

| Item | Specification | BS-2074B | BS-2074T |
|----------------|--------------------------------------|----------|----------|
| Optical System | Infinite Optical System | • | • |
| Eyepiece | Extra wide field eyepiece EW10x/22mm | • | • |

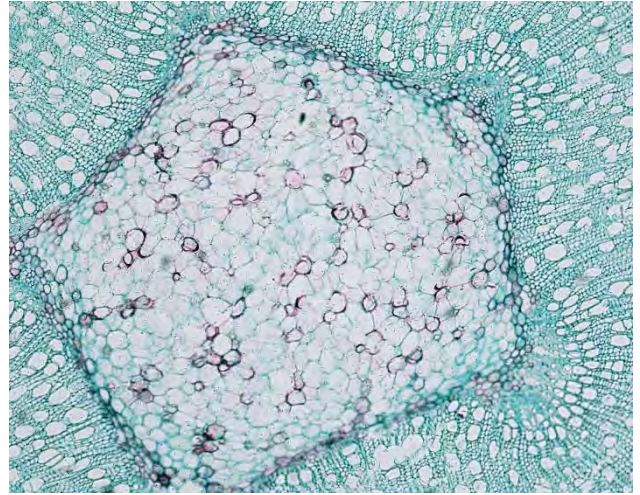
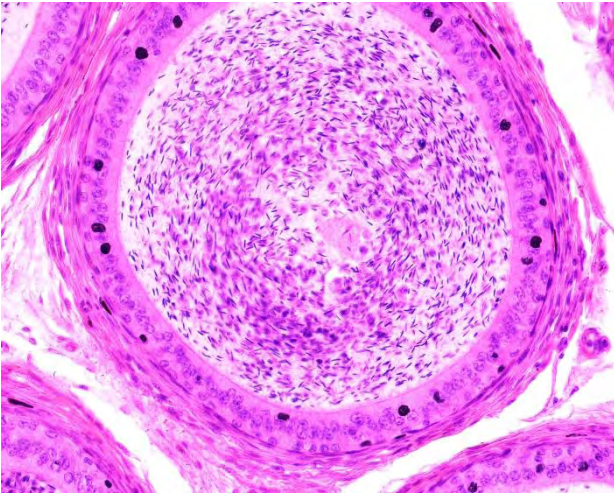
| | | | |
|------------------------|--|---|---|
| | Wide field eyepiece WF15×/16mm | ○ | ○ |
| | Wide Field Eyepiece WF20×/12mm | ○ | ○ |
| Viewing Head | Seidentopf binocular viewing head, inclined at 30°, 360° rotatable, interpupillary 47-78mm, anti-fungus, tube diameter 30mm | ● | |
| | Seidentopf trinocular viewing head, inclined at 30°, 360° rotatable, interpupillary 47-78mm, splitting ratio 5:5, anti-fungus, tube diameter 30mm | | ● |
| | Seidentopf binocular viewing head with built-in 5.0mp digital camera, HDMI and WIFI output interface, inclined at 30°, 360° rotatable, interpupillary 47-78mm, anti-fungus, tube diameter 30mm | ○ | ○ |
| Objective | NIS60 Infinite Plan Achromatic Objective 4× (N.A.:0.10, W.D.:30mm) | ● | ● |
| | NIS60 Infinite Plan Achromatic Objective 10× (N.A.:0.25, W.D.:10.2mm) | ● | ● |
| | NIS60 Infinite Plan Achromatic Objective 40× (N.A.:0.65, W.D.:1.5mm) | ● | ● |
| | NIS60 Infinite Plan Achromatic Objective 100× (Water, N.A.:1.10, W.D.:0.2mm) | ○ | ○ |
| | NIS60 Infinite Plan Achromatic Objective 20× (N.A.:0.40, W.D.:4.0mm) | ○ | ○ |
| | NIS60 Infinite Plan Achromatic Objective 60× (N.A.:0.80, W.D.:0.3mm) | ○ | ○ |
| | NIS60 Infinite Plan Achromatic Objective 100× (Oil, N.A.:1.25, W.D.:0.3mm) | ● | ● |
| | NIS60 Infinite Plan Phase Contrast Achromatic Objective 10×, 20×, 40×, 100× | ○ | ○ |
| | NIS60 Infinite Plan Semi-APO Fluorescent Objectives 4×, 10×, 20×, 40×, 100× | ○ | ○ |
| Nosepiece | Backward quintuple nosepiece (Coding) | ● | ● |
| Stage | Rackless stage, size 230×150mm, moving range 78×54mm | ● | ● |
| Condenser | Inserted abbe condenser NA1.25 (Including empty plate) | ● | ● |
| | Bright field-phase contrast plate (4X-100X universal) | ○ | ○ |
| | Bright field-dark field plate | ○ | ○ |
| Focusing | Coaxial coarse and fine adjustment, coarse stroke 37.7mm per rotation, fine stroke 0.2mm per rotation, fine division 0.002mm, moving range 30mm | ● | ● |
| Illumination | 3W S-LED (LCD display magnification, timing sleep, brightness indication and lock, etc.) | ● | ● |
| Fluorescent Attachment | 3W LED, two filter cubes (B, G, U, V, R, Auramine O can be combined), fly-eye lens illumination | ○ | ○ |
| Other Accessories | 1× C-mount adapter | ○ | ○ |
| | 0.5× C-mount adapter | ○ | ○ |
| | Simple polarization set | ○ | ○ |
| | Digital camera | ○ | ○ |
| Filter | Green | ○ | ○ |
| | Blue, Yellow, Red | ○ | ○ |
| Package | 1pc/carton, Carton size: 48cm*33cm*60cm, Net/Gross Weight: 10.5kg/12.5kg | ● | ● |

Note: ●Standard Outfit, ○Optional

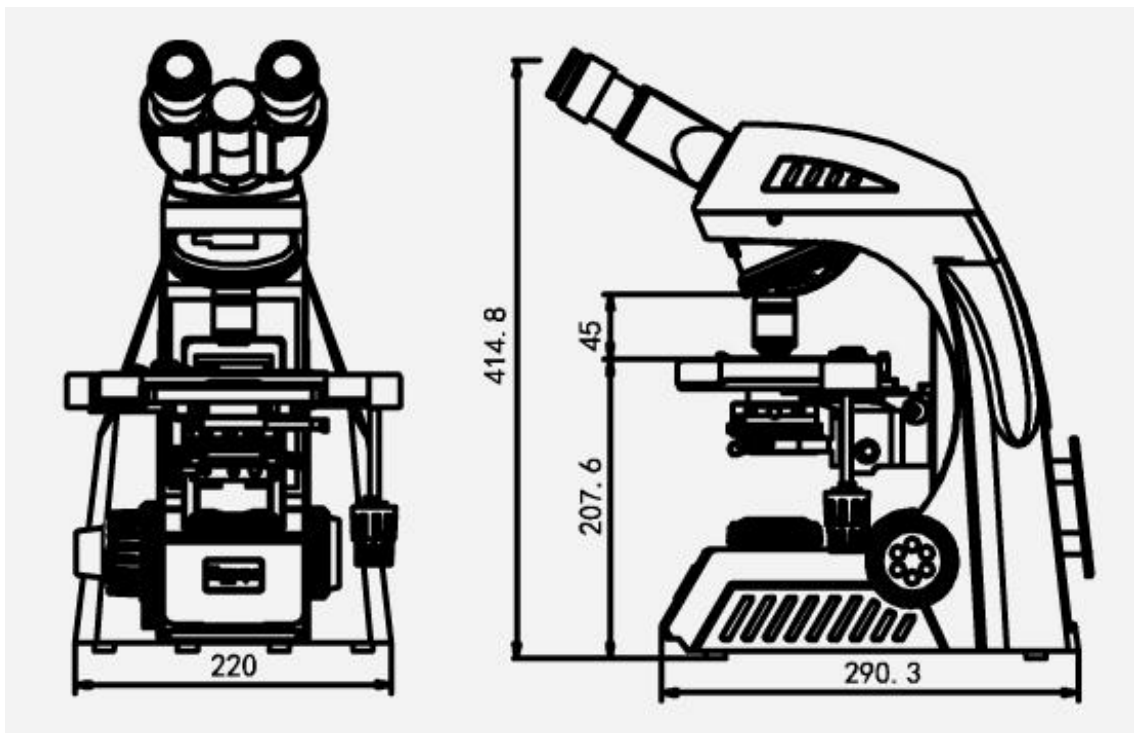
System Diagram



Sample Image



Dimension



Unit: mm

36. BS-2076 Research Biological Microscope



BS-2076T

Introduction

The latest BS-2076 series microscopes are designed for professional laboratory microscopic observation. On the one hand it has upgraded optical system, NIS infinity optics system provides excellent extendibility for this microscope, high numerical aperture (NA) plan achromatic objective and various types of optical components which have adopted multilayer coating technology could ensure the high image quality. On the other hand, improving comfort and operation convenience continuously, and the LCD screen in front of the microscope displays real-time working status of microscope, universal condenser, stopper that can be used to set the upper limit of the stage height etc., these structures ensure that even beginners can use it smoothly. Ergonomic design helps you to stay focused for longer by reducing the strain on your body, which is the best choice for scientific research experimenters and medical examiners for microscopic observation.

Features

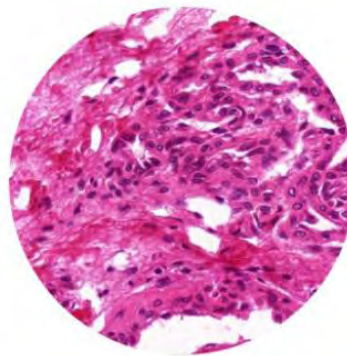
1. High quality Infinite Plan Achromatic Objectives.

BS-2076 has adopted NIS series infinite plan achromatic objectives, which feature flat, sharp images up to the periphery of the field of view. High numerical aperture(NA) and long working distances, high resolution, can restore the real colors and realize accurate observation of samples.

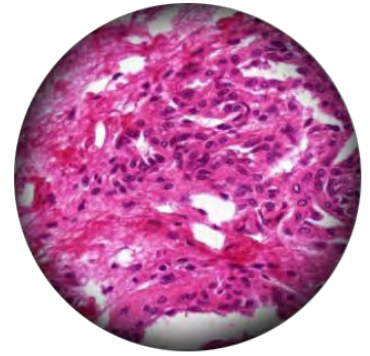


2. Kohler illumination, uniform brightness throughout the field of view.

Adding a Kohler mirror in front of light source to provide bright and uniform field of view. Work together with the infinite optical system and high-resolution objective, provides you perfect microscopic imaging.



Kohler Illumination



Critical Illumination

3. Comfortable and worry-free focus knob.

Low position focus knob design, different areas on the specimen slide can be easily explored while resting your hands on the table, with adjustable torque could improve comfort. BS-2076 is equipped with a stopper that can be used to set the upper limit of the stage height, the stage stops at the set height even when the focus knob is turned, thereby eliminating the risk of over-focusing and breaking the slides or damaging the objectives.



4. Put slide by one hand.

Slides can be quickly slid in and out with one hand. The universal sample holder is suitable for a variety of slide types, such as Hemocytometer.



5. Easy-to-rotate coded quintuple nosepiece.

High-precision machining ensures smoothness and durability in use. The coded nosepiece features an easy grip for smooth rotation, and accommodates up to five objectives, users can also choose 2X objective with large field of view, phase contrast and semi-APO objectives.



6. Uniform and stable brightness.

The LED light source with color temperature adjustment function, which could produce daylight lighting conditions, so that the sample presents a natural color. The designed life span of LED lamp is 50,000 hours, which not only reduces maintenance costs, but also keeps the brightness stable during use.

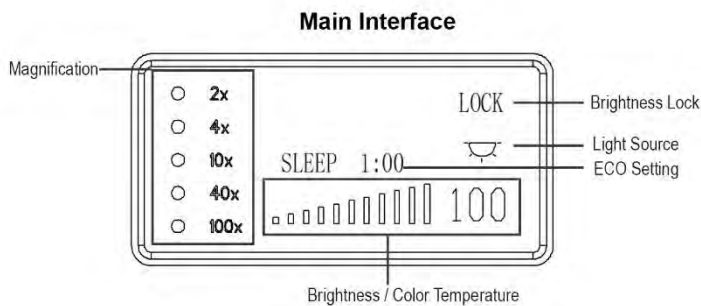
7. Universal condenser is more convenient to use.

Users can switch from 4X to 100X without moving the top lens. Contrast adjustment is performed by adjusting the iris diaphragm.



8. Working status display.

Working status including magnification, brightness, color temperature, stand by status are shown on the LCD screen which is in front of microscope.

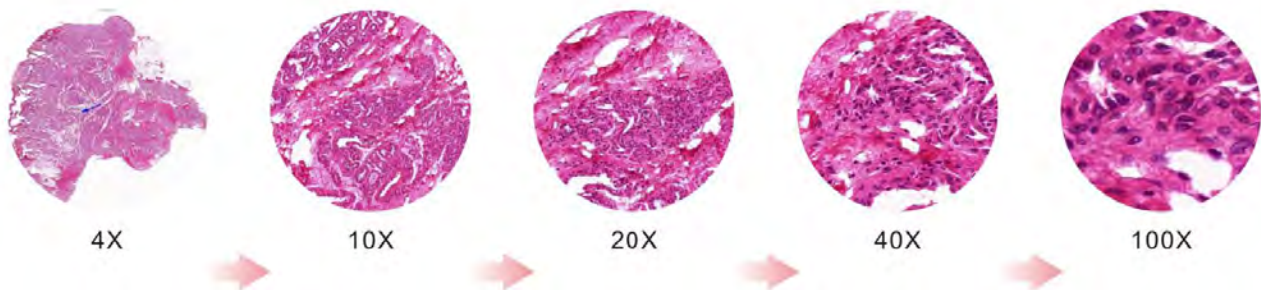


9. Smart illumination management design.

Longtime microscope observation requires frequent magnification switching, brightness adjustment, color temperature adjustment, etc. BS-2076 simplifies these repetitive mechanical operations and displays status on the LCD to improve work efficiency and provide comfortable operation experience.

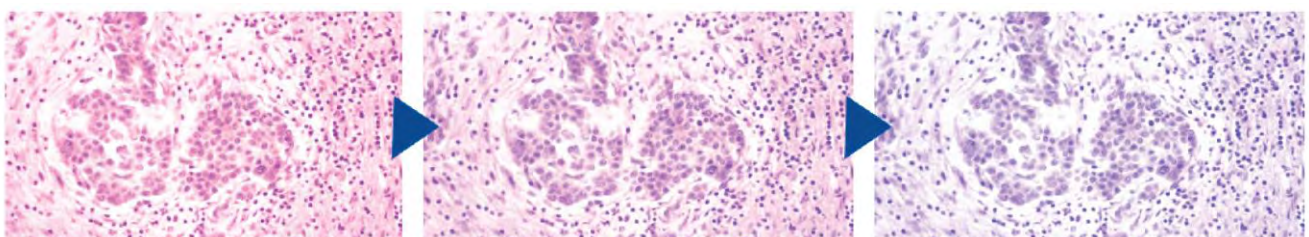
(1) Maintains comfortable brightness when switching magnifications.

BS-2076 features intelligent Light Intensity Management which automatically remembers and sets the light intensity level for each objective, with this function, users can increase comfort and save time when it requires frequent magnification changes.



(2) Color temperature adjustable.

With color temperature adjustment function, the LED light source produces daylight lighting conditions, so that the sample presents a natural color. Since the color temperature can be changed according to observation demand, the brightness and color temperature could keep users feel comfortable.



(3) Realize various functions with one brightness control knob.

- *Single click: enter standby status
- *Double click: light intensity lock or unlock
- *Rotate: adjust brightness
- *Press and rotate up direction: adjust brightness
- *Press and rotate down direction: adjust color temperature
- *Hold the press for 3s: setting ECO

(4) Automatically power off after a period of inactivity.

BS-2076 is equipped with an ECO mode which automatically turns off the illumination after a certain period of inactivity, the length of the inactivity period is adjustable, with ECO mode, it helps you save power and extend microscope life.

10. Easier transportation and storage.

BS-2076 is equipped with a special handle, which is light and stable. Its back board is designed with a hub device, which effectively accommodates excessive long power cords and improves cleanliness of the laboratory. At the same time, it also reduces trip accidents caused by excessive long power cords during transportation.



Application

BS-2076 series research microscopes are ideal instruments in biological, histological, pathological, bacteriological, hematological, immunological, pharmaceutical and life science fields, they could be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities for teaching, research and examinations.

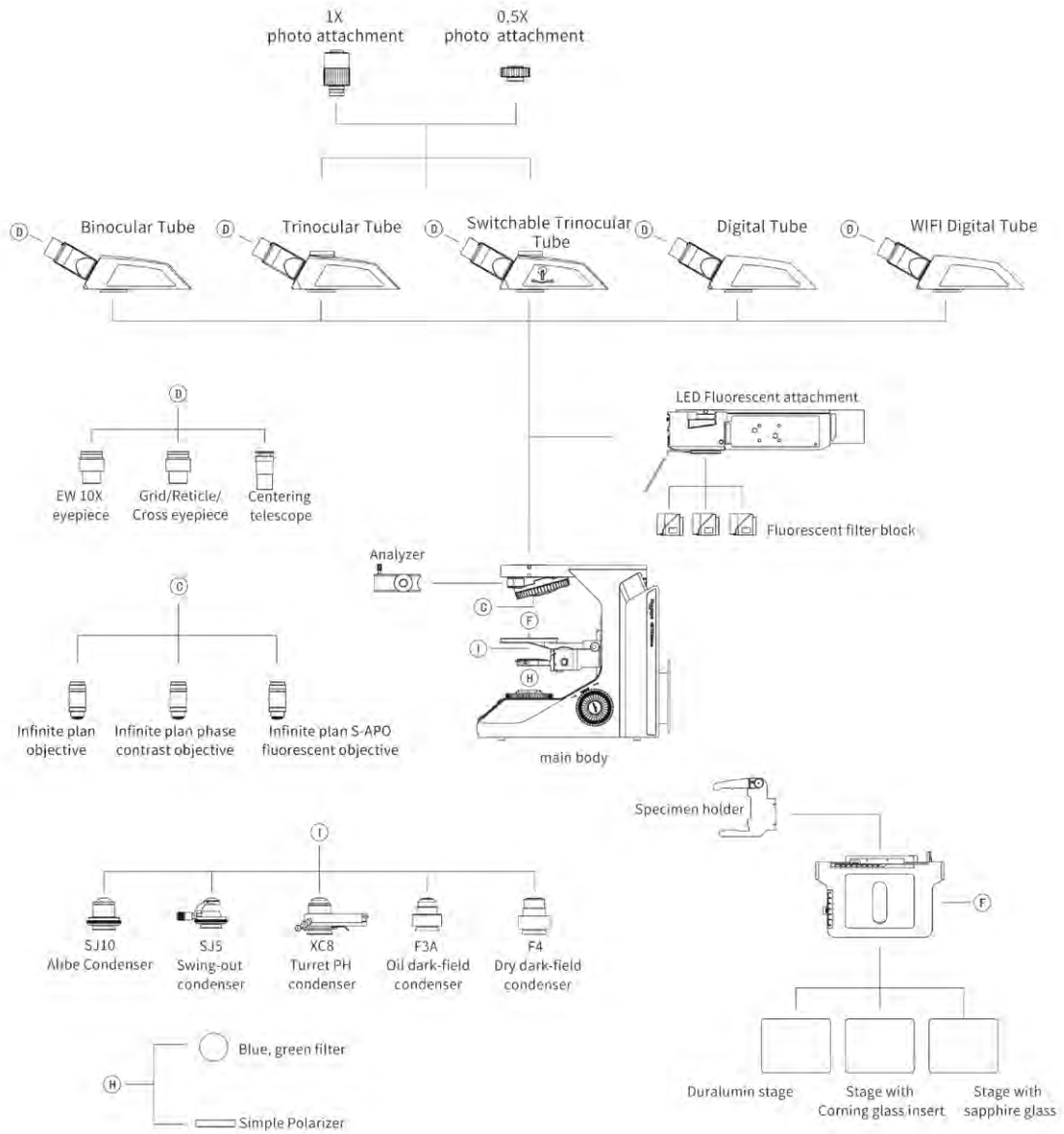
Specification

| Item | Specification | BS-2076B | BS-2076T | |
|----------------|---|---|----------|---|
| Optical System | NIS60 Infinite Color Corrected Optical System | ● | ● | |
| Viewing Head | Seidentopf Binocular Head, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm | ● | ○ | |
| | Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio(fixed): Eyepiece:Trinocular=50:50 | ○ | ● | |
| | Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio(adjustable): Eyepiece:Trinocular=100:0/0:100 | ○ | ○ | |
| | Ergo Tilting Seidentopf Binocular Head, adjustable 0-35° inclined, interpupillary distance: 47mm-78mm | ○ | ○ | |
| | Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100 | ○ | ○ | |
| | Seidentopf Binocular Head with built-in USB2.0 digital camera, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm | ○ | ○ | |
| | Seidentopf Binocular Head with built-in WIFI & HDMI digital camera, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm | ○ | ○ | |
| Eyepiece | Super wide field plan eyepiece SW10X/22mm, diopter adjustable | ● | ● | |
| | Extra wide field plan eyepiece EW12.5X/17.5mm, diopter adjustable | ○ | ○ | |
| | Wide field plan eyepiece WF15X/16mm, diopter adjustable | ○ | ○ | |
| | Wide field plan eyepiece WF20X/12mm, diopter adjustable | ○ | ○ | |
| Objective | Infinite Plan Achromatic Objective | N-PLN 2X/NA=0.06, WD=7.5mm | ○ | ○ |
| | | N-PLN 4X/NA=0.10, WD=30mm | ● | ● |
| | | N-PLN 10X/NA=0.25, WD=10.2mm | ● | ● |
| | | N-PLN 20X/NA=0.40, WD=12mm | ● | ● |
| | | N-PLN 40X/NA=0.65, WD=0.7mm | ● | ● |
| | | N-PLN 100X(Oil)/NA=1.25, WD=0.2mm | ● | ● |
| | | N-PLN 50X(Oil)/NA=0.95, WD=0.19mm | ○ | ○ |
| | | N-PLN 60X/NA=0.80, WD=0.3mm | ○ | ○ |
| | | N-PLN-I 100X (Oil, with Iris Diaphragm)/NA=0.5-1.25, WD=0.2mm | ○ | ○ |
| | | N-PLN 100X(Water)/NA=1.10, WD=0.2mm | ○ | ○ |
| | Infinite Plan Phase Contrast Objective | N-PLN PH 10X/NA=0.25, WD=10.2mm | ○ | ○ |
| | | N-PLN PH 20X/NA=0.40, WD=12mm | ○ | ○ |
| | | N-PLN PH 40X/NA=0.65, WD=0.7mm | ○ | ○ |
| | | N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm | ○ | ○ |
| | Infinite Plan Semi-apochromatic Fluorescent Objective | N-PLFN 4X/NA=0.13, WD=17.2mm | ○ | ○ |
| | | N-PLFN 10X/NA=0.30, WD=16.0mm | ○ | ○ |
| | | N-PLFN 20X/NA=0.50, WD=2.1mm | ○ | ○ |
| | | N-PLFN 40X/NA=0.75, WD=1.5mm | ○ | ○ |
| | | N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm | ○ | ○ |
| Nosepiece | Backward Quintuple Coded Nosepiece (with DIC slot) | ● | ● | |

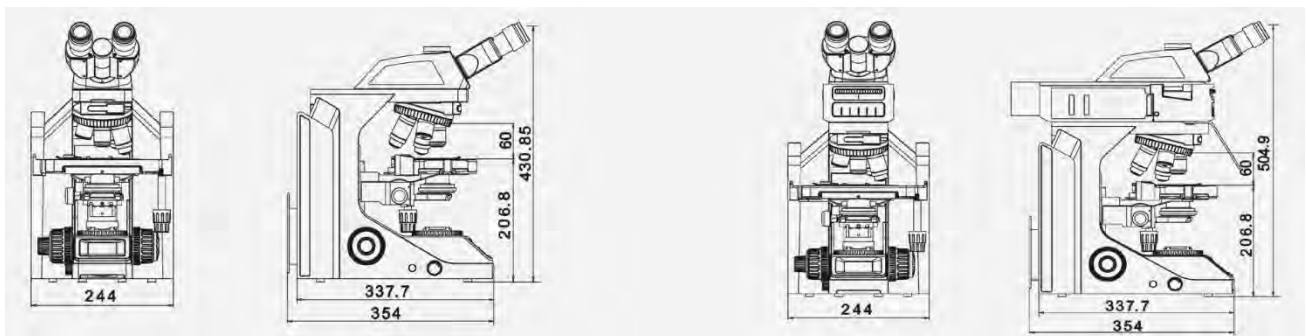
| | | | |
|--|---|---|---|
| Condenser | Abbe Condenser N.A.0.9, with Iris diaphragm | ● | ● |
| | Swing-out achromatic condenser N.A.0.9/0.25, with Iris diaphragm | ○ | ○ |
| | NA1.25 Sliding-in Turret Phase Contrast Condenser | ○ | ○ |
| | NA0.7-0.9 Dark-field Condenser (Dry), used for objectives lower than 100X | ○ | ○ |
| | NA1.3-1.26 Dark-field Condenser (Oil), used for 100X objective | ○ | ○ |
| Transmitted Illumination | 3W S-LED lamp, center pre-set, intensity adjustable; LCD screen displays magnification, time sleeping, brightness and lock, color temperature adjustable | ● | ● |
| LED Fluorescent Attachment | LED fluorescent attachment with LED illumination, 4-position fluorescent turret, with iris diaphragm, B,G,U,R fluorescent filters are available | ○ | ○ |
| Mercury Fluorescent Attachment | Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot; with B, G, U fluorescence filters (B, G, U, V, R, FITC, DAPI, TRITC, Auramine, Texas Red and mCherry fluorescent filters are available). | ○ | ○ |
| | 100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable. | ○ | ○ |
| | Digital power controller, wide voltage 100-240VAC | ○ | ○ |
| | ND6/ND25 Filter | ○ | ○ |
| Focusing | Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 28mm | ● | ● |
| Stage | Double Layer Rackless Stage 235x150mm, moving range 78x54mm, hard oxidized plate; can be upgraded to tempered glass stage or sapphire stage, precision: 0.1mm | ● | ● |
| DIC Kit (Should work with Semi-APO objectives) | 10X, 20X/40X, 100X Warrior Prism (works in the DIC Turret Condenser) | ○ | ○ |
| | Polarizer for DIC Kit | ○ | ○ |
| | 10X-20X DIC insert plate (can be inserted into the DIC slot on nosepiece) | ○ | ○ |
| | 40X-100X DIC insert plate (can be inserted into the DIC slot on nosepiece) | ○ | ○ |
| | DIC Turret Condenser | ○ | ○ |
| Other Accessories | 0.5X C-mount Adapter | ○ | ○ |
| | 1X C-mount Adapter | ○ | ○ |
| | Dust Cover | ● | ● |
| | Power Cord | ● | ● |
| | Cedar Oil 5ml | ● | ● |
| | Simple Polarizing kit | ○ | ○ |
| | Calibration slide 0.01mm | ○ | ○ |
| | Multi Viewing Attachment for 2/3/5/7/10 person | ○ | ○ |

Note: ● Standard Outfit, ○ Optional

System Diagram

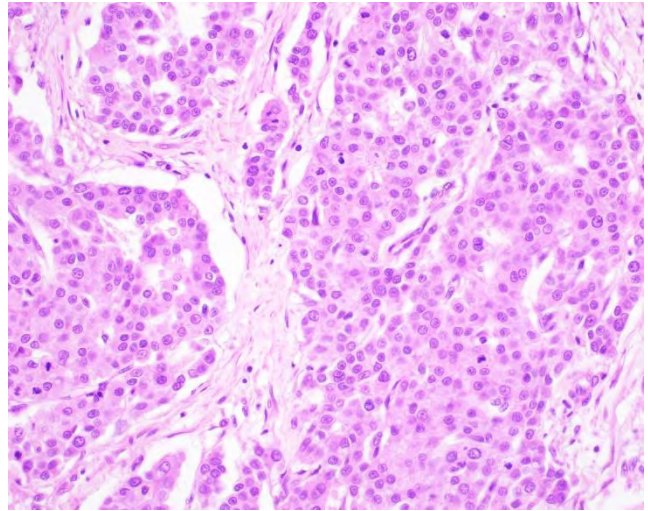
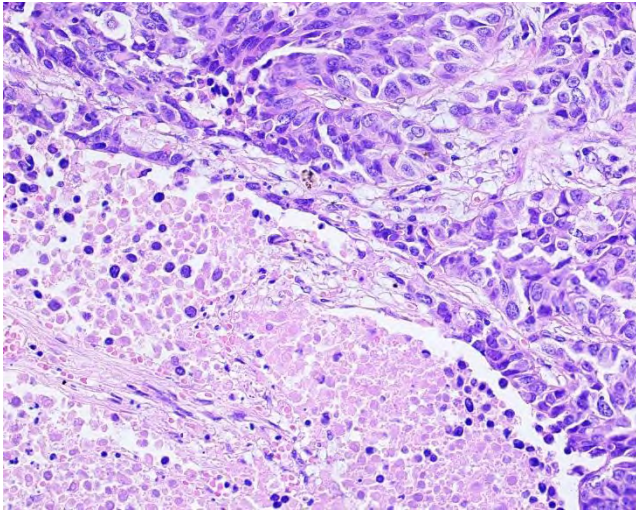


Dimension



Unit: mm

Sample Image



37. BS-2078 Biological Microscope



BS-2078B

Introduction

BS-2078 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory study. It adopts an Infinite optical system, beautiful structure and ergonomic design. With modular design, it can be equipped with various accessories to meet different needs. With an innovative optical and structure design, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

Feature

1. Stage



280mm*160mm rackless integrated large size mechanical stage, travel range 80*52mm.

2. Coaxial coarse and fine focusing



Coaxial coarse and fine focusing system (scale 1 μ m) with focusing upper limiting device. Coarse stroke 30mm.

3. Management System



Only available for LED illumination. With the LCD display, it shows logo when power on and the shows current magnification of objective. It can show working brightness and has current brightness memory. It supports working time setting, LED color temperature adjustable within 3500K-6000K, brightness adjustment automatically upon different objectives.

4. Brand new Koehler illumination system

Brand new Koehler illumination system ensures excellent optical performance.



5W LED Illumination



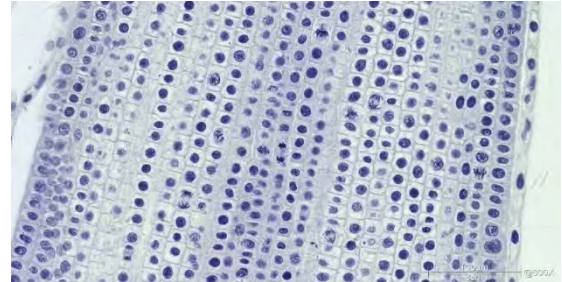
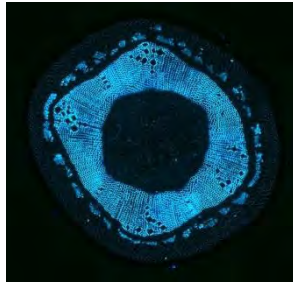
50W/100W Halogen Illumination

Application

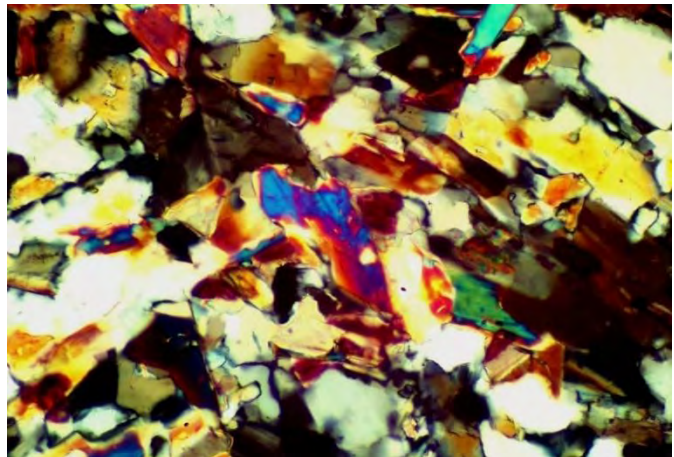
1. Bright observation



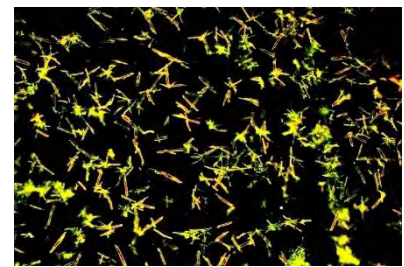
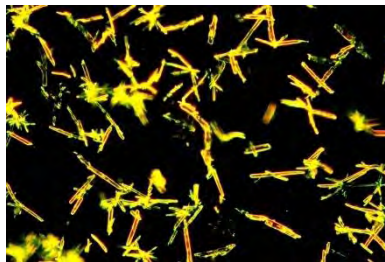
Swing-out condenser



2. Polarizing observation



3. Dark field observation

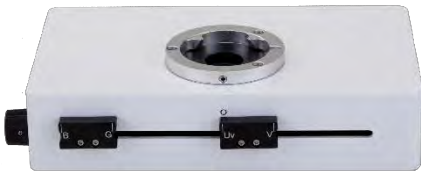


4. Phase contrast observation



Qunituple turret phase contrast unit 10X/20X/40X/100X

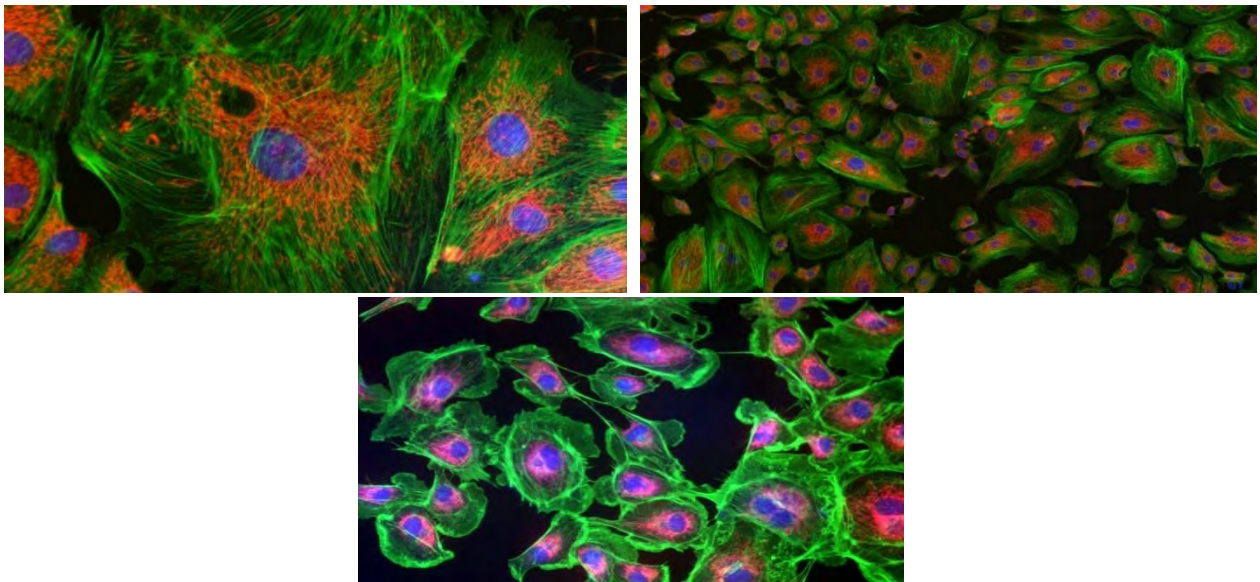
5. Fluorescence observation



Integrated EPI LED fluorescence device



BS-2078BF



Specification

| Item | Specification | BS-2078A | BS-2078B |
|----------------|--|----------|----------|
| Optical System | Color Corrected Infinite Optical System | • | • |
| Viewing Head | Inclined 30° trinocular tube, rotatable 360°, interpupillary distance: 48-76mm, splitting ratio: eyepiece: trinocular=100:0 or 20:80 | • | |

| | | | |
|--|---|---|---|
| | Inclined 30° trinocular tube, rotatable 360°, interpupillary distance: 48-76mm, splitting ratio: eyepiece: trinocular=100:0 or 20:80 or 0:100 | | • |
| Eyepiece | Wide field plan eyepiece WF10X/25mm, with adjustable diopter | • | • |
| | Wide field plan eyepiece WF10X/23mm, with adjustable diopter | ○ | ○ |
| Infinity Plan Achromatic Objectives | 2X/NA=0.06, WD=7.2mm | ○ | ○ |
| | 4X/NA=0.11, WD=12.1mm | • | ○ |
| | 10X/NA=0.25, WD=10.0mm | • | ○ |
| | 20X/NA=0.45, WD=3.33mm | • | ○ |
| | 40X (S)/NA=0.7, WD=2.61mm | • | ○ |
| | 100X (S, Oil)/NA=1.25, WD=0.25mm | • | ○ |
| Infinity Plan Semi-Apochromatic Objectives | 4X/NA=0.10, WD=16.2mm | ○ | • |
| | 10X/NA=0.3, WD=9.6mm | ○ | • |
| | 20X/NA=0.45, WD=2.8mm | ○ | • |
| | 40X (S)/NA=0.7, WD=0.55mm | ○ | • |
| | 100X (S, Oil)/NA=1.25, WD=0.21mm | ○ | • |
| Nosepiece | Sextuple nosepiece | • | • |
| Stage | Rackless integrated stage with two slide holders. Stage size: 280mm(X)*160mm(Y), moving range: 80mm*52mm. | • | • |
| Condenser | Swing-out condenser NA 0.9/0.13 | • | • |
| | Dark field condenser, dry, apply to 4X-40X objective | ○ | ○ |
| | Dark field condenser, wet, apply to 100X objective | ○ | ○ |
| Koehler Illumination | 5W LED illumination | • | • |
| | 12V/50W halogen lamp | ○ | ○ |
| | 12V/100W halogen lamp | ○ | ○ |
| Polarizing Unit | Analyzer and polarizer | ○ | ○ |
| Phase Contrast Unit | Quintuple hole turret unit with 10X, 20X, 40X, 100X phase contrast objectives | ○ | ○ |
| Fluorescent Attachment | B/G epi fluorescence unit, 5W LED fluorescence lamp | ○ | ○ |
| | B/G/UV/V epi fluorescence unit, 5W LED fluorescence lamp | ○ | ○ |
| Video Adapter | 0.35X C-mount adapter, adjustable focus | ○ | ○ |
| | 0.5X C-mount adapter, adjustable focus | ○ | ○ |
| | 0.75X C-mount adapter, adjustable focus | ○ | ○ |
| | 1X C-mount adapter, adjustable focus | ○ | ○ |
| Filter | Frosted glass | • | • |
| | Blue filter | ○ | ○ |
| | Green filter | ○ | ○ |
| | Yellow filter | ○ | ○ |
| Display | Work status display screen, only for LED illumination. It shows magnification of objectives and working brightness. Brightness memory, working time setting and controlling the color temperature of the LED. | ○ | ○ |
| Packing | 1 carton/set, Packing Size: 560mm × 350mm × 520mm, | • | • |

| | | | |
|--|--|--|--|
| | Gross Weight: 20.5 kgs, Net Weight: 15 kgs | | |
|--|--|--|--|

Note: ●Standard Outfit, ○Optional

Accessories

1. Objectives



Infinity Semi-Apochromatic Objectives

| Items | Objective | NA (mm) | W.D. (mm) |
|---|--------------------------|---------|-----------|
| Infinity Semi-Apochromatic Objective (FN25) | PLAN S-APO 4X | 0.10 | 16.20 |
| | PLAN S-APO 10X | 0.30 | 9.60 |
| | PLAN S-APO 20X | 0.45 | 2.80 |
| | PLAN S-APO 40X(S) | 0.70 | 0.55 |
| | PLAN S-APO 100X (S, oil) | 1.25 | 0.21 |
| Infinity Plan Achromatic Objective (FN25) | PLAN 4X | 0.11 | 12.1 |
| | PLAN 10X | 0.25 | 10.0 |
| | PLAN 20X | 0.45 | 3.33 |
| | PLAN 40X (S) | 0.70 | 2.61 |
| | PLAN 100X (S, oil) | 1.25 | 0.25 |

2. Optional Fluorescence

| Item | Exciter | Dichroic | Emitter | Noted |
|----------------------------|----------|----------|----------|---------------------------------|
| FL-B(Blue) | EX450/60 | DM505 | EM520LP | |
| FL-G(Green) | EX540/30 | DM565 | EM590LP | |
| FL-UV (Ultraviolet) | EX375/28 | DM415 | EM435LP | |
| FL-V(Violet) | EX405/30 | DM430 | EM470LP | |
| FL-B(Chroma39002) | EX470/40 | DM505 | EM535/40 | EGFP/FITC/Cy2/AlexaFluor 488 |
| FL- G(Chroma39004) | EX530/40 | DM565 | EM605/55 | TRITC/Cy3/TagRFP/AlexaFluor 546 |
| FL-UV (Chroma39000) | EX375/28 | DM415 | EM460/50 | DAPI/Hoechst/AlexaFluor 350 |
| FL- Auramine (Chroma19008) | EX450/50 | DM485 | EM495LP | For Tuberculosis |

3. Viewing head

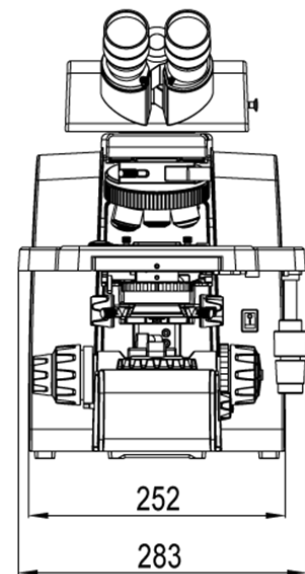
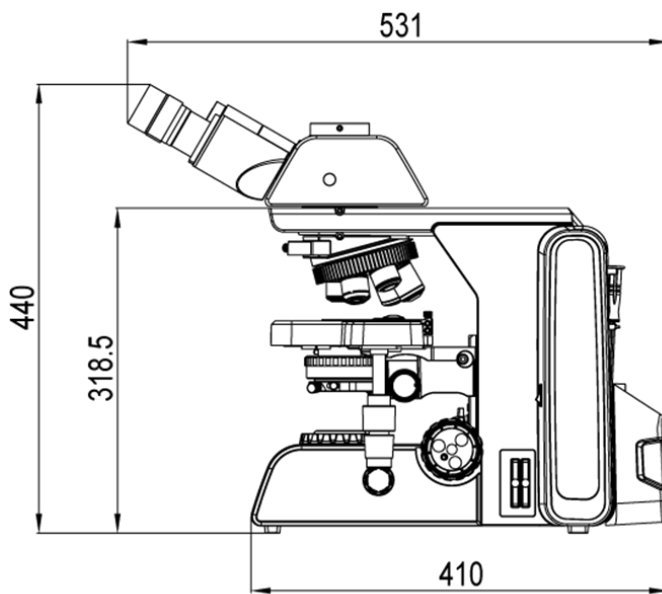


Viewing head with splitting ratio of 100:0 or 20:80 (eyepiece: trinocular) for BS-2078A



Viewing head with splitting ratio of 100:0 or 20:80 or 0:100 (eyepiece: trinocular) for BS-2078B

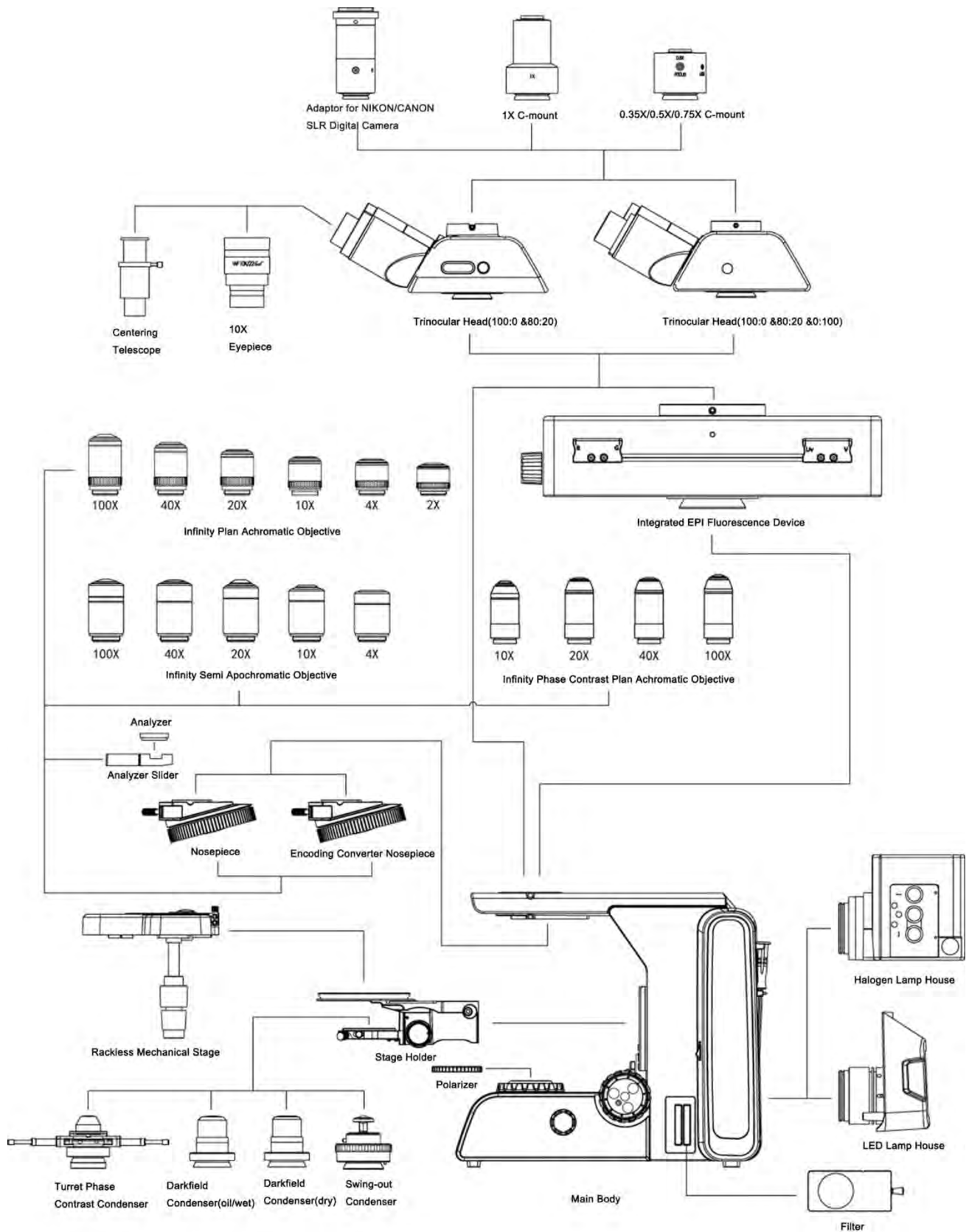
Dimension



BS-2078A/B

Unit: mm

System Diagram



38. BS-2080 Laboratory Biological Microscope



Introduction

BS-2080 Laboratory Biological Microscope is a high-level microscope which is specially designed for laboratory research. It adopts an Infinite optical system, reasonable structure and ergonomic design. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, this laboratory biological microscope makes your laboratory works enjoyable.

Feature

1. With Infinite Optical System, Kohler Illumination, providing excellent optical quality and making Image perfect.
2. With low and forward position of coarse and fine coaxial focus system, focusing knobs and brightness adjustable knob within reaching location, stable integral structure, and reasonable ergonomic design, making operators feel more comfortable and effective.

Application

This microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Viewing Head



Comfortably Observing with Seidentopf Type Trinocular Head Inclined at 30°. Suitable for Every Observer with Wide Interpupillary Range 48-75mm.

Eyepiece



Larger Viewing Area with Extra Wide Field Eyepiece EW10×/22. Focus Control with Diopter Adjustable.

Nosepiece



Big Operating Space with Backward Quintuple Nosepiece.

Objective



Perfect Image with Infinite Plan Achromatic Objective.

Stage



Rectangle Double Layers Mechanical Stage 185×142mm, Moving Range 75×55mm. Comfortable Operation with Low Position Adjustable Knobs.

Condenser



With Swing Condenser N.A. 0.9/0.25, Overcoming Illumination Asymmetry at Low Magnification Observation.

Field Diaphragm



With Aspherical Condenser and Kohler Illumination, Providing Enough, Even and High Contrast Illumination for Various Objective Observation.

Illuminator



External Illumination, Halogen Lamp 6V/30W, Brightness Adjustable. 24V/100W For Optional.



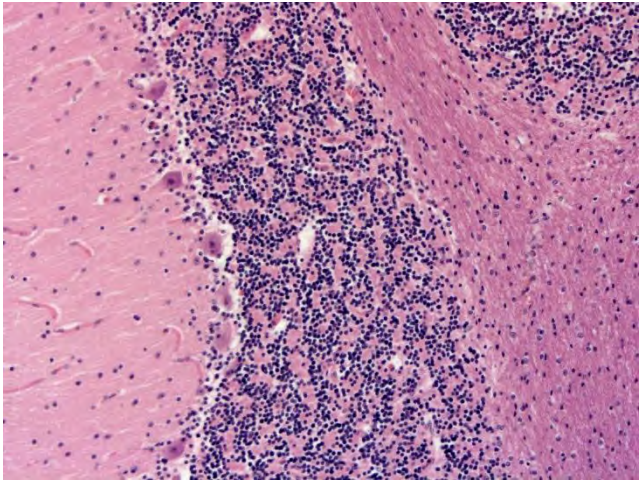
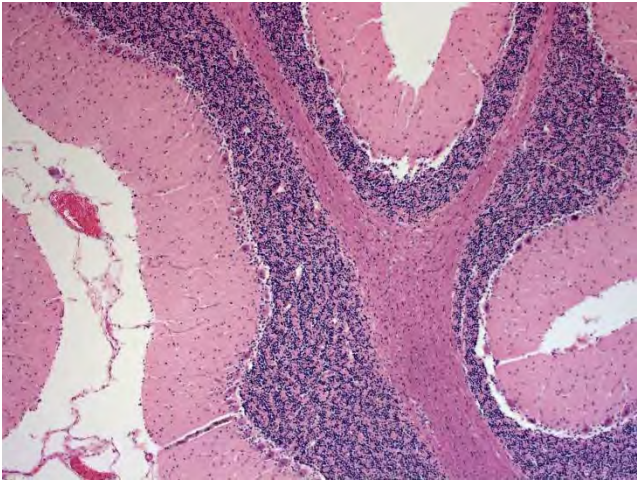
Specification

| Item | Specification | BS-2080 |
|----------------|---|---------|
| Optical System | Infinite Optical System | ● |
| Viewing Head | Siedentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm | ● |
| | 5°-35° Tilttable Binocular/ Trinocular Head | ○ |
| Eyepiece | Extra Wide Field Eyepiece EW10×/ 22mm, Eyepiece Tube Diameter 30mm | ● |
| Nosepiece | Backward Quintuple Nosepiece | ● |
| | Backward Sextuple Nosepiece | ○ |

| | | | | |
|-----------------------|---|--------------|-------------|---|
| Objective | Infinite Plan Achromatic Objective | 2×/0.05, | W.D.=18.3mm | ○ |
| | | 4×/0.10, | W.D.=17.3mm | ● |
| | | 10×/0.25, | W.D.=10mm | ● |
| | | 20×/0.40, | W.D.=5.1mm | ○ |
| | | 40×/0.65(S), | W.D.=0.54mm | ● |
| | | 60×/0.8(S), | W.D.=0.14mm | ○ |
| | 100×/1.25(S, Oil), | W.D.=0.13mm | ● | |
| | Infinite Plan Fluorescent Objective | 4×/0.13, | W.D.=16.3mm | ○ |
| | | 10×/0.30, | W.D.=12.4mm | ○ |
| | | 20×/0.50, | W.D.=1.5mm | ○ |
| 40×/0.75(S), | | W.D.=0.35mm | ○ | |
| 100×/1.3(S, Oil), | W.D.=0.13mm | ○ | | |
| Condenser | Swing-out Condenser NA 0.9/ 0.25 | | | ● |
| Focusing | Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 24mm | | | ● |
| Stage | Double Layers Mechanical Stage 185×142mm, Moving Range 75×55mm | | | ● |
| Illumination | External Illumination, Aspherical Collector with Kohler Illumination, Halogen Lamp 6V/30W, Brightness Adjustable | | | ● |
| | External Illumination, Aspherical Collector with Kohler Illumination, Halogen Lamp 24V/100W, Brightness Adjustable | | | ○ |
| | 3W LED Illumination, Brightness Adjustable | | | ○ |
| | 5W LED Illumination, Brightness Adjustable | | | ○ |
| Video Adapter | C-Mount 1× | | | ○ |
| | C-Mount 0.5× | | | ○ |
| Filter | Blue Filter | | | ● |
| | Green Filter | | | ● |
| Dark Field Attachment | Dark-field Condenser(Dry) | | | ○ |
| | Dark-field Condenser(Oil) | | | ○ |
| Accessories | Photo Attachment for Nikon or Canon DSLR cameras | | | ○ |
| | Polarization Attachment | | | ○ |
| | Turret Phase Contrast Kit | | | ○ |
| | FL-800 Epi-fluorescent Attachment | | | ○ |
| | FL-LED Epi-fluorescent Attachment | | | ○ |
| | Temperature Control Stage | | | ○ |
| Package | 1carton/set, 43.5cm*39.5cm*59cm, 14kg | | | ● |

Note: ● Standard Outfit, ○ Optional

Sample Image



System Diagram



* Viewing field of auxiliary objective is $\Phi 20$ when with the accessories

39. BS-2080F(LED) Fluorescent Biological Microscope**Introduction**

BS-2080F(LED) Series LED fluorescence microscope is a newly developed microscope, the microscope uses LED as the fluorescent light source, the life span of the LED lamp is much longer than mercury lamp, the performance is also better.

Feature

1. Excellent fluorescent image with infinite optical system.
2. LED illumination with 50,000 hours life span.
3. No need for cooling system and protection device due to LED cold light source.
4. 465-476nm excited wavelength with high SNR.
5. Convenient to use, no need warm-up.
6. More fluorescent filters are available for different applications.

Application

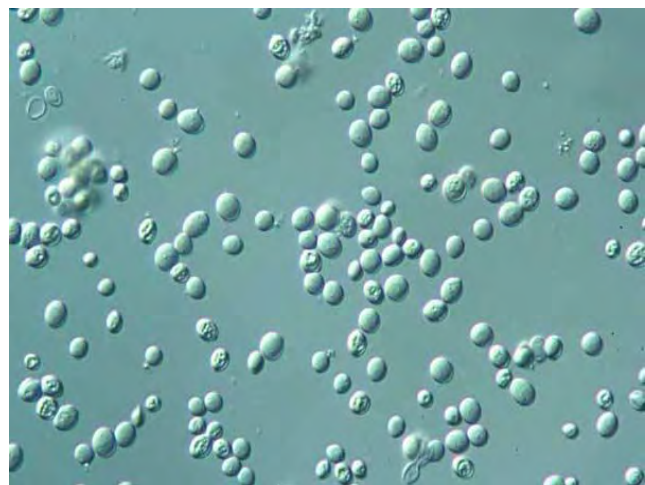
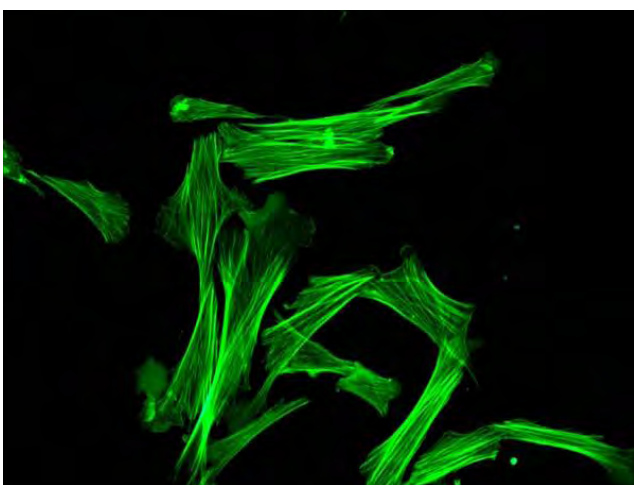
BS-2080F(LED) LED Fluorescence microscope is used to study the absorbing, transportation, chemicals distribution and positioning in cells. It is widely used in disease examination, immune diagnosis and life science areas.

Specification

| Item | Specification | | | | BS-2080F(LED) |
|--------------------------|---|------------|-----------------|----------------|---------------|
| Optical System | Infinite Optical System | | | | ● |
| Viewing Head | Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm | | | | ● |
| Eyepiece | Wide Field Eyepiece WF10×/22mm | | | | ● |
| Nosepiece | Backward Quintuple Nosepiece | | | | ● |
| Objective | Infinite Plan Achromatic Objective 4×, 10×, 40×, 100× | | | | ● |
| | Infinite Plan Achromatic Objective 20×, 60×, | | | | ○ |
| | Infinite Plan Fluorescent Objective 4×,10×,20×,40×, 100× | | | | ○ |
| Condenser | Swing Condenser NA 0.9/0.25 | | | | ● |
| Focusing | Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 24mm | | | | ● |
| Stage | Double Layers Mechanical Stage 185×142/ 75×55 mm | | | | ● |
| Photo Adapter | Used to connect Nikon or Canon DSLR camera | | | | ○ |
| Video Adapter | 1× C-mount, 0.5× C-mount | | | | ○ |
| Transmitted Illumination | External Kohler illumination, Aspherical collector, Halogen lamp 6V/30W | | | | ● |
| Reflected Light Source | | Excitation | Dichroic Mirror | Barrier Filter | |
| | Blue excitation | BP460~490 | DM505 | BA515 | ● |
| | Green excitation | BP510~550 | DM570 | BA590 | ● |
| Lamp | 3W LED Lamp(465-476nm) | | | | ● |
| | 3W LED Lamp(525-530nm) | | | | ● |
| Immersion Oil | Fluorescent Free Oil | | | | ● |

Note: ●Standard Outfit, ○Optional

Sample Images



40. BS-2081 Research Biological Microscope

BS-2081



BS-2081F



BS-2081L

Introduction

BestScope continues to explore the research needs of specialized fields such as pathology, cytology and virology, and continuously optimizes and upgrades the BS-2081 series of scientific grade upright microscopes to have near-perfect optical performance and mechanical structure design. NIS Infinity Optical System has precise imaging and chromatic aberration correction capabilities. The illumination system with high color reproduction, high-quality optics and full-featured accessories makes these microscopes ideal for cutting-edge life science research where darkfield of view, differential interference contrast or high-performance fluorescence are required. In addition, a wide range of motorized and intelligent components and powerful imaging software meet the needs of quick sample overview and detailed sample inspection, making repetitive tasks easy and greatly increasing ease and comfort for maximum productivity. No matter in a clinical laboratory or a research laboratory, the BS-2081 series microscopes provide the ideal microscopy imaging solution.

Features

1. Sapphire Glass Stage is optional.



Mechanical stage with sapphire glass insert is optional, it is enduring, never could be scratched and allows users to clear the stage easily.

2. Put Slide by One Hand.



It is easy for users to put slides by one hand due to the special designed slide clip.

3. Tilting Trinocular Head is optional.



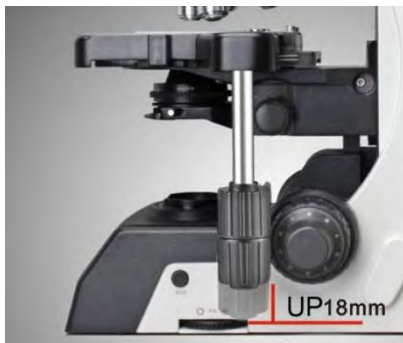
- (1) The eye tube can be adjusted from 0°-35°.
- (2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
- (3) The beam splitter has 3-position (100:0, 20:80, 0:100).
- (4) The splitter bar can be assembled on the either side according to user's requirements.

4. ECO Function.



The transmitted light would be off automatically after 30 minutes from operators leave. It can not only save energy, but also keep the lamp life longer.

5. Low Position X-Y Knobs.



The height of the stage control knobs can be adjusted up or down by 18mm to ensure a comfortable hand position, the tension of X-Y control knob also can be adjusted.

6. BS-2081L has Intelligent operating system.

(1) Coded Nosepiece with light intensity memory function.

The BS-2081L microscope can memorize the illumination brightness when using each objective. When the objective has been changed, the light intensity will be automatically adjusted to reduce visual fatigue and improve work efficiency.



(2) Use a dimming knob to achieve multiple functions.

One Click: Enter standby status

Double Clicks: Light lock or unlock

Rotation: Adjust brightness

Press + Up-spin: Switch to the upper light source

Press + Down-spin: Switch to the under light source

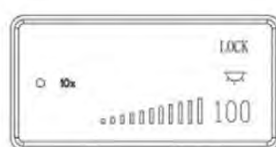
Press 3 seconds: Set the time of turning off the light after leaving.

(3) The display of microscope working status.

The LCD on the front of the microscope can display the working status of the microscope, including magnification, light intensity, sleepy model and so on.



Start & working mode



Lock mode



ECO mode



Sleep mode

(4) Color temperature adjustment function.

The color temperature can be adjusted from yellow to white, which can lead to a better contrast and meet the requirements of various research.

Application

BS-2081 series research microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specification

| Item | Specification | BS-2081 | BS-2081L | BS-2081F | BS-2081F (LED) | |
|----------------|--|-----------------------------------|----------|----------|----------------|---|
| Optical System | NIS60 Infinite Color Corrected Optical System | ● | ● | ● | ● | |
| Viewing Head | Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece: Trinocular=100:0 or 20:80 or 0:100 | ● | ● | ● | ● | |
| | Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece: Trinocular=100:0 or 20:80 or 0:100 | ○ | ○ | ○ | ○ | |
| | Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm | ○ | ○ | ○ | ○ | |
| | Ergo Tilting Seidentopf Binocular Head, adjustable 0-35° inclined, interpupillary distance: 47mm-78mm | ○ | ○ | ○ | ○ | |
| Eyepiece | Super wide field plan eyepiece SW10X/25mm, diopter adjustable | ● | ● | | | |
| | Super wide field plan eyepiece SW10X/22mm, diopter adjustable | ○ | ○ | ● | ● | |
| | Extra wide field plan eyepiece EW12.5X/17.5mm, diopter adjustable | ○ | ○ | ○ | ○ | |
| | Wide field plan eyepiece WF15X/16mm, diopter adjustable | ○ | ○ | ○ | ○ | |
| | Wide field plan eyepiece WF20X/12mm, diopter adjustable | ○ | ○ | ○ | ○ | |
| Objective | N-PLN Plan Objective | N-PLN 2X/NA=0.06, WD=7.5mm | ○ | ○ | ○ | ○ |
| | | N-PLN 4X/NA=0.10, WD=30mm | ● | ● | ● | ● |
| | | N-PLN 10X/NA=0.25, WD=10.2mm | ● | ● | ● | ● |
| | | N-PLN 20X/NA=0.40, WD=12mm | ● | ● | ● | ● |
| | | N-PLN 40X/NA=0.65, WD=0.7mm | ● | ● | ● | ● |
| | | N-PLN 100X(Oil)/NA=1.25, WD=0.2mm | ● | ● | ● | ● |
| | | N-PLN 50X(Oil)/NA=0.95, WD=0.19mm | ○ | ○ | ○ | ○ |
| | | N-PLN 60X/NA=0.80, WD=0.3mm | ○ | ○ | ○ | ○ |

| | | | | | | |
|--------------------------|---|--|---|---|---|---|
| | | N-PLN-I 100X (Oil, with Iris Diaphragm)/ NA=0.5-1.25, WD=0.2mm | ○ | ○ | ○ | ○ |
| | N-PLN PH Plan Phase Contrast Objective | N-PLN PH 10X/NA=0.25, WD=10.2mm | ○ | ○ | ○ | ○ |
| | | N-PLN PH 20X/NA=0.40, WD=12mm | ○ | ○ | ○ | ○ |
| | | N-PLN PH 40X/NA=0.65, WD=0.7mm | ○ | ○ | ○ | ○ |
| | | N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm | ○ | ○ | ○ | ○ |
| | N-PLFN Plan Semi-apochromatic Fluorescent Objective | N-PLFN 4X/NA=0.13, WD=17.2mm | ○ | ○ | ○ | ○ |
| | | N-PLFN 10X/NA=0.30, WD=16.0mm | ○ | ○ | ○ | ○ |
| | | N-PLFN 20X/NA=0.50, WD=2.1mm | ○ | ○ | ○ | ○ |
| | | N-PLFN 40X/NA=0.75, WD=1.5mm | ○ | ○ | ○ | ○ |
| | | N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm | ○ | ○ | ○ | ○ |
| | N-PLFN PH Plan Semi-apochromatic Fluorescent Phase Contrast Objective | N-PLFN PH 10X/NA=0.30, WD=15.8mm | ○ | ○ | ○ | ○ |
| | | N-PLFN PH 20X/NA=0.50, WD=2.7mm | ○ | ○ | ○ | ○ |
| | | N-PLFN PH 40X/NA=0.75, WD=1.35mm | ○ | ○ | ○ | ○ |
| | | N-PLFN PH 100X(Oil)/NA=1.40, WD=0.18mm | ○ | ○ | ○ | ○ |
| | N-PLPN Plan Apochromatic Objective | N-PLPN 10X/NA=0.45, WD=4.0mm | ○ | ○ | ○ | ○ |
| | | N-PLPN 20X/NA=0.75, WD=1.1mm | ○ | ○ | ○ | ○ |
| | | N-PLPN 40X/NA=0.95, WD=0.21mm | ○ | ○ | ○ | ○ |
| | | N-PLPN 60X(Oil)/NA=1.42, WD=0.25mm | ○ | ○ | ○ | ○ |
| | | N-PLPN 100X(Oil)/NA=1.45, WD=0.13mm | ○ | ○ | ○ | ○ |
| Nosepiece | Backward Sextuple Nosepiece (with DIC slot) | | ● | ○ | ● | ● |
| | Backward Coded Sextuple Nosepiece (with DIC slot) | | ○ | ● | ○ | ○ |
| Condenser | Swing-out type condenser N.A.0.9/0.25 | | ● | ● | ● | ● |
| | Turret Phase Contrast Condenser | | ○ | ○ | ○ | ○ |
| | Dark-field Condenser (Dry), used for objectives lower than 100X | | ○ | ○ | ○ | ○ |
| | Dark-field Condenser (Oil), used for 100X objective | | ○ | ○ | ○ | ○ |
| Transmitted Illumination | 3W S-LED lamp, center pre-set, intensity adjustable | | ● | ○ | ● | ● |
| | 3W S-LED lamp, center pre-set, intensity adjustable. LCD screen with illumination management system | | ○ | ● | ○ | ○ |

| | | | | | |
|--|---|---|---|---|---|
| | 12V/100W halogen lamp, center pre-set, intensity adjustable | ○ | ○ | ○ | ○ |
| Focusing | Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 35mm | ● | ● | ● | ● |
| Stage | Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slide holder, Right or left handle); precision: 0.1mm, with Ultra-hard Glass Insert | ● | ● | ● | ● |
| | Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slide holder, Right or left handle); precision: 0.1mm; with Sapphire Crystal Glass Insert | ○ | ○ | ○ | ○ |
| DIC Kit | Polarizer for DIC Kit | ○ | ○ | ○ | ○ |
| | DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece | ○ | ○ | ○ | ○ |
| | DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece | ○ | ○ | ○ | ○ |
| | DIC Turret Condenser (10X, 20X/40X, 100X Warrior Prism inside) | ○ | ○ | ○ | ○ |
| Reflected Fluorescence Illuminator (with mercury lamp) | Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot; with fluorescence B, G filters | ○ | ○ | ● | ○ |
| | 100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable. | ○ | ○ | ● | ○ |
| | Digital power controller, wide voltage 100-240VAC | ○ | ○ | ● | ○ |
| | ND6/ND25 Filter | ○ | ○ | ○ | ○ |
| | U, V, R, FITC, DAPI, TRITC, Auramine, mCherry, FL-BG fluorescent filters | ○ | ○ | ○ | ○ |
| Reflected Fluorescent Attachment (with LED lamps) | LED Reflected Fluorescent Attachment, Turret with 6-position for filter block cubes, including B, G fluorescent filters and B, G, U, R LED lamps (the LED lamps can be used for B, G, U, R, FITC, DAPI, TRITC fluorescent filters), there are 4 positions for the LED lamps | ○ | ○ | ○ | ● |
| | U, R, FITC, DAPI, TRITC fluorescent filters | ○ | ○ | ○ | ○ |
| Filter for Transmitted Illumination | Green Filter 45mm | ○ | ○ | ○ | ○ |
| | Blue Filter 45mm | ○ | ○ | ○ | ○ |
| | Yellow Filter 45mm | ○ | ○ | ○ | ○ |
| | Red Filter 45mm | ○ | ○ | ○ | ○ |
| | ND6 Filter | ○ | ○ | ○ | ○ |
| | ND25 Filter | ○ | ○ | ○ | ○ |
| Other Accessories | 0.5X C-mount Adapter | ○ | ○ | ○ | ○ |
| | 1X C-mount Adapter | ○ | ○ | ○ | ○ |
| | Dust Cover | ● | ● | ● | ● |

| | | | | | |
|--|--|---|---|---|---|
| | Power Cord | ● | ● | ● | ● |
| | Cedar Oil 5ml | ● | ● | ● | ● |
| | Simple Polarizing kit | ○ | ○ | ○ | ○ |
| | Calibration slide 0.01mm | ○ | ○ | ○ | ○ |
| | Multi Viewing Attachment for 2/3/5/7/10 person | ○ | ○ | ○ | ○ |

Note: ● Standard Outfit, ○ Optional

Accessories

1. N-PLN Series Plan Objectives



The plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

2. N-PLN PH Series Plan Phase Contrast Objectives



These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

3. N-PLFN Series Plan Semi-APO Fluorescent Objectives



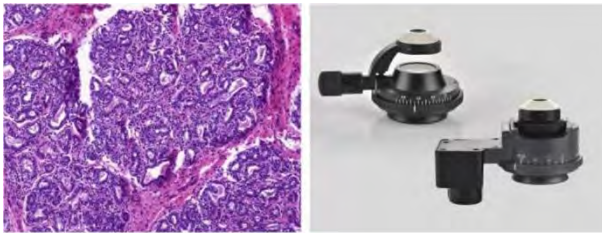
Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

4. N-PLPN Plan Apochromatic Fluorescent Objective



The newly developed advanced apochromatic objective lenses have high level of chromatic aberration correction capability and high resolution, ensuring a high level of wave-phase contrast correction with full field of view, these APO objectives are ideal for routine laboratory observation work and digital imaging.

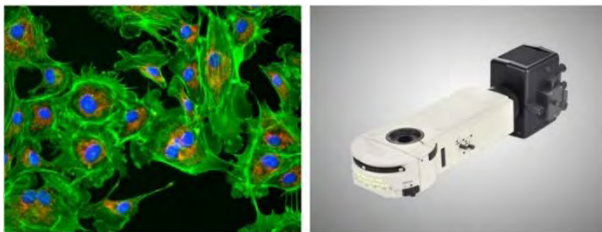
5. Bright field viewing



Mammary Gland (active stage)

Brighter image, high resolution and flatness, suitable for all the magnifications.

6. Fluorescent viewing



Arterial Cell

The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.



Fluorescence Filter Cubes

Perfect Fluorescence Images

Under the same conditions of exposure time, gain and others, compare to benchmarking products:

1. Dapi channel, Exposure time 200ms, Gain 1x, 40x Plan Fluor

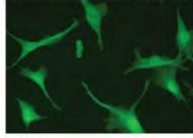


BestScope

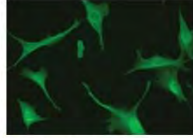


International well-known brand

2. FITC channel, Exposure time 1s, Gain 2.3x, 40x Plan Fluor

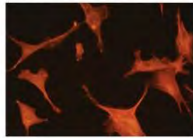


BestScope

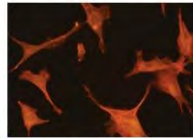


International well-known brand

3. TRITC channel, Exposure time 1s, Gain 5.1x, 40x Plan Fluor

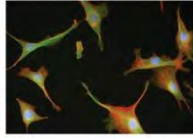


BestScope

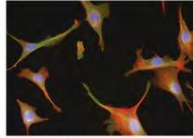


International well-known brand

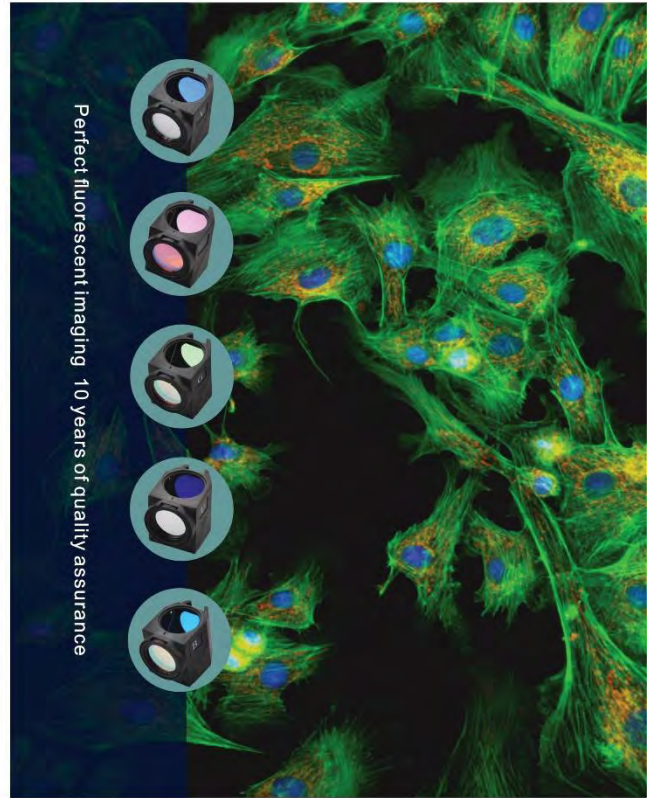
4. Three-colour additive



BestScope



International well-known brand



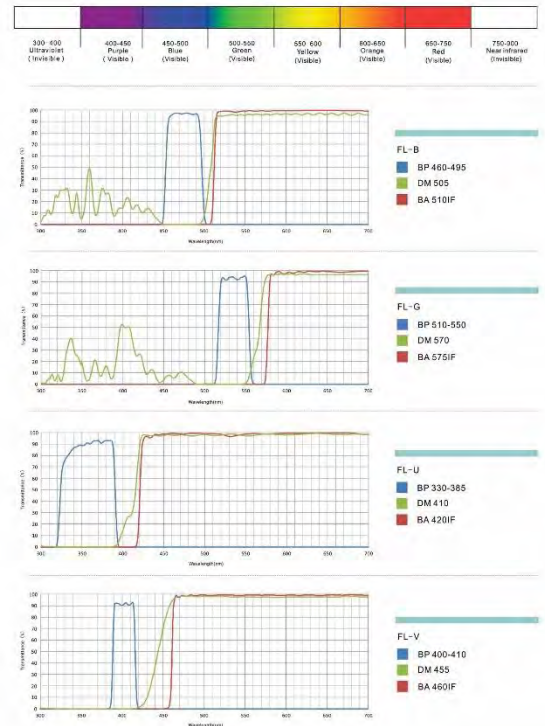
Perfect fluorescent imaging 10 years of quality assurance

Fluorescence Filter Cubes Product Manual

Fluorescence Filter Cubes

Fluorescence Filter Cubes

Spectral range



Spectral range

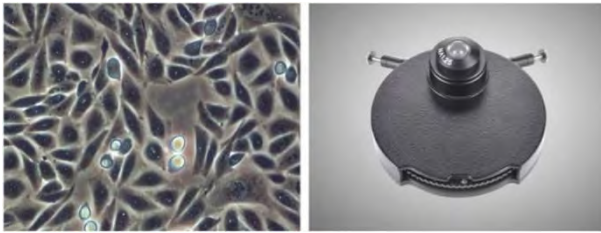


| Excitation | Excitation Filter | Dichroic Mirror | Barrier Filter | LED lamp Wave Length | Application |
|---------------------|--------------------|--------------------|--------------------|----------------------|---|
| B | BP460-495 | DM505 | BA510 | 485nm | ·FITC: Fluorescent antibody method ·Acidine orange: DNA, RNA ·Auramine: Tubercle bacillus ·EGFP, S657, RSGFP |
| G | BP510-550 | DM570 | BA575 | 535nm | ·Rhodamine, TRITC: Fluorescent antibody method ·Propidium iodide: DNA ·RFP |
| U | BP330-385 | DM410 | BA420 | 365nm | ·Auto-fluorescence observation ·DAPI: DNA staining ·Hoechst 332528, 33342: used for Chromosome staining |
| V | BP400-410 | DM455 | BA460 | 405nm | ·Catecholamines ·5-hydroxy tryptamine ·Tetracycline: Skeleton, Teeth |
| R | BP620-650 | DM660 | BA670-750 | 640nm | ·Cy5 ·Alexa Fluor 633, Alexa Fluor 647 |
| FITC | BP460-495 | DM505 | BA510-550 | 485nm | ·FITC: Fluorescent antibody method |
| DAPI | BP360-390 | DM415 | BA435-485 | 365nm | DAPI: DNA staining |
| TRITC | BP528-553 | DM565 | BA578-633 | 535nm | ·TRITC: Fluorescent antibody method |
| FL-Auramine | BP470 | DM480 | BA485 | 450nm | ·Auramine O, Testing for tuberculosis |
| Texas Red (mCherry) | BP542-582 | DM593 | BA605-675 | 560nm | Molecular labeling and cellular component localization |
| FL-BG | BP 453-490/533-588 | DM 495-548/595-705 | BA 500-540/603-664 | 485nm/525nm | ·FITC: Fluorescent antibody method ·Acidine orange: DNA, RNA ·Auramine: Tubercle bacillus ·EGFP, S657, RSGFP ·Rhodamine, TRITC: Fluorescent antibody method ·Propidium iodide: DNA ·RFP |

Note: 1. All the above fluorescent filters can be used on BS-2081F.

2. Filters Size in fluorescent block: Excitation and Barrier Filters is $\Phi 24.8\text{mm} \times 3.6\text{mm}$ (thickness with metal edge), Dichroic Mirror is $37.5 \times 28.5 \times 1\text{mm}$, the filters can be installed in the block.

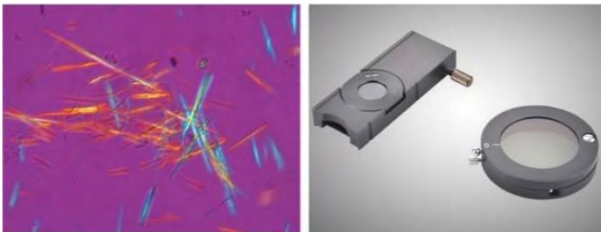
7. Phase contrast viewing



Rat Ovarian Cell

Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

8. Polarizing viewing



Uric Acid Crystal

It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

9. Dark-field viewing



Spirogyra

It can be used for clearly viewing of blood or flagellum etc., fine structure.

10. DIC attachment



The DIC attachment can be used to observe unstained specimens. It including:

1. Semi-APO objective
2. Turret DIC condenser
3. Polarizer
4. DIC Plate

11. Multi viewing heads



BS-2083MH4A (For 2 users, Face to Face)



BS-2083MH4B (For 2 users, Side by Side)



BS-2083MH6(For 3 users)



BS-2083MH10(For 5 users)



BS-2081MH20 (For 10 users)

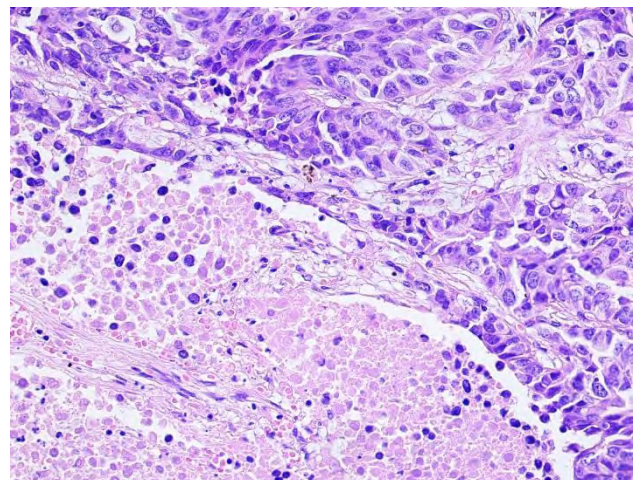
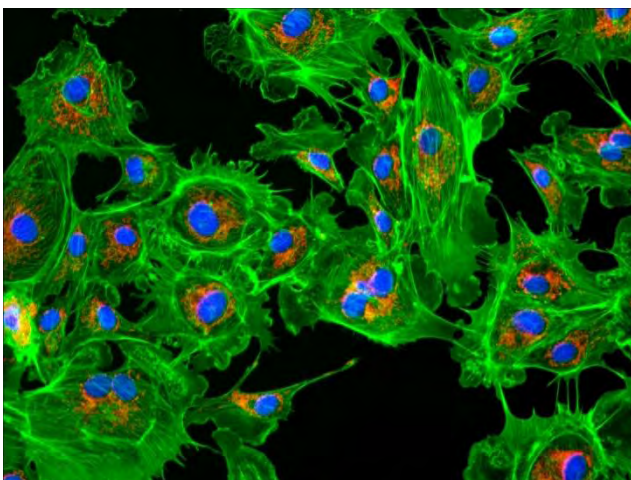
Note: We have not captured images with BS-2081, so we use BS-2083 to illustrate, BS-2081MH series are different with BS-2083 series on main microscope body.

7. LED Fluorescent attachment

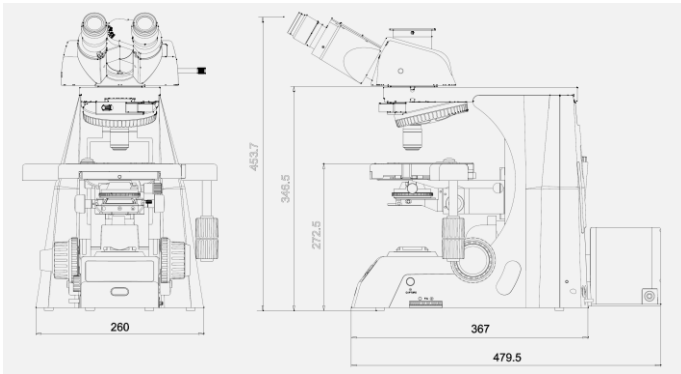


The LED Reflected Fluorescent Attachment has turret with 6-position for filter block cubes, standard configuration including B, G fluorescent filters and B, G, U, R LED lamps, the LED lamps can be used for B, G, U, R, FITC, DAPI, TRITC fluorescent filters (U, R, FITC, DAPI, TRITC fluorescent filters are optional), there are 4 positions for the LED lamps. The fluorescent filters are reliable and precise, which offers high performance for various demands.

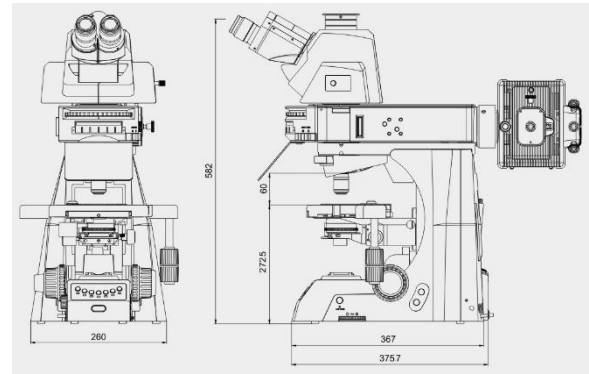
Sample Image



Dimension



BS-2081&BS-2081L



BS-2081F

Unit: mm

41. BS-2082 Research Biological Microscope

BS-2082



BS-2082F



BS-2082F(LED)

Introduction

After years of research and development in optical technology field, BS-2082 biological microscope is designed to present a safe, comfortable and efficiency observation experience for users. With perfectly performed structure, high-definition optical image and simple operating system, BS-2082 realizes professional analysis, and meets all the needs of research in scientific, medical and other fields.

Feature

1. High eye point wide field plan eyepiece



The eyepiece field of view has been upgraded from traditional 22mm to 25mm and 26.5mm, providing flatter field of view and improving working efficiency, with wider diopter adjustment range and foldable rubber eye guard.

2. Viewing head with multi-splitting ratio

The viewing head is designed of multiple options for splitting ratio.

(1) Trinocular head with inverted image, splitting ratio Binocular: Trinocular=100:0 or 20:80 or 0:100 is standard. Except for concentrating 100% light to eyepiece tube or camera tube, there is another option with 20% light to eyepiece tube and 80% to camera tube, so that eyepiece observation and image output can be available at the same time.

(2) Trinocular head with erected image, splitting ratio Binocular: Trinocular=100:0 or 0:100 is optional. The moving direction of samples is the same as observed.



3. Highly sensitive coaxial coarse and fine adjustment

Coaxial adjustment adopts double-stage driving, with adjustable tension tightness and upper limit stop, coarse range is 25mm and fine precision is 1 μ m. Not only accurately focus but also precision measurement is available.

4. Power control system for mercury lamp

New digital power control system with operating time and current value, clearly shows the working state of the mercury lamp.

5. Two power supply systems, providing multiple choices of high quality illumination

New developed EHV DC mercury lamp house with improved thermal cycle greatly reduces the surface temperature of the lamp house and avoids the scald risk during operation. The filament center is easily adjustable.

6. Large stage with adjustment in either hand



In order to correct the hidden danger of horizon guide rail, the stage is designed with double-way linear driving mechanism. This change protects the stage from overload at the end of both rails, improves the reliability and performance of the stage.

The handle of the stage can be set at each side based on users' preference. The X, Y biaxial adjustment are designed with low position for comfortable operation.

Two slices can be hold on the stage by using damping-type double clips, easy for comparative study. Moving range: 80mm*55mm; precision: 0.1mm. Processed with special craft, the surface of the stage is anti-corrosive and anti-friction. The platform with an arc transition design reduces the stress concentration and damage from impact.

7. Multifunctional reflection illumination

In reflection fluorescent illumination, maximum 6 fluorescence filters can be assembled at the same time. Filters are placed in a rotary table for convenient switch. High precision and stable rotary table and high-performance filter ensures a drift-free image.

There is a light shutter in front of the reflected illuminator. It is used to shut the fluorescent light to prevent fluorescence quenching of the slice.

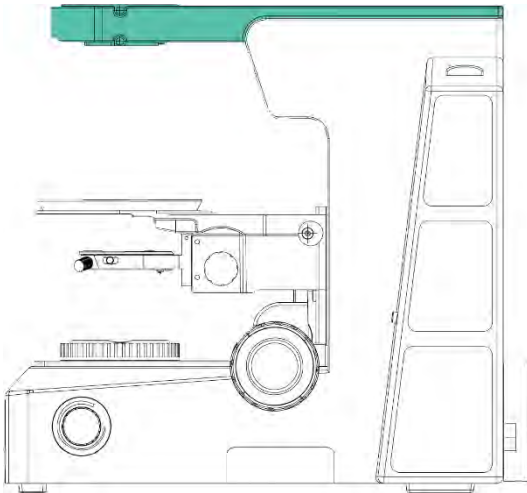
The light barrier can protect users from the harm of UV light.

The use of ND attenuation filter, or aperture and field diaphragm rod can efficiently reduce the intensity of exciting light to protect the slice.

After replacing the lamp, the centering objective helps users in adjusting the filament center to make sure a sufficient and uniform fluorescent illumination.



8. Modular frame, improving the system compatibility



With modularization design, separated cross arm and main body, improves the system compatibility of biological and fluorescence frame.

Application

This microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities

Specification

BS-2082A, BS-2082B, BS-2082B(DIC)

| Item | Specification | BS-2082A | BS-2082B | BS-2082B (DIC) |
|----------------|--|----------|----------|----------------|
| Optical System | Infinite color corrected optical system | ● | ● | ● |
| Viewing Head | 30° inclined infinity trinocular head, inverted image, interpupillary distance: 50-76mm, splitting ratio R:T=0:100 or 20:80 or 100:0 | ● | ● | ● |
| | 30° inclined infinity trinocular head, erect image, interpupillary distance: 50-76mm, splitting ratio R:T=100:0 or 0:100 | ○ | ○ | ○ |
| | 5-35° adjustable, inverted image, tilting trinocular head, interpupillary distance: 50-76mm, splitting ratio R:T=100:0 or 50:50 or 0:100 | ○ | ○ | ○ |
| | 30° inclined binocular head, inverted image, 360° rotatable, fixed eyepiece tube, interpupillary distance: 54-75mm | ○ | ○ | ○ |
| | 30° inclined binocular head, erect image, 360° rotatable, fixed eyepiece tube, interpupillary distance: 54-75mm | ○ | ○ | ○ |
| Eyepiece | High eye point wide field plan eyepiece PL10X/25mm, with adjustable diopter | ● | ● | ● |
| | High eye point wide field plan eyepiece PL10X/25mm, with micrometer and adjustable diopter | ○ | ○ | ○ |

| | | | | | | |
|---|--|--|---|---|---|---|
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter | | ○ | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/22mm, with stop screw and adjustable diopter | | ○ | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/23mm, with adjustable diopter | | ○ | ○ | ○ | |
| | High eye point wide field plan eyepiece PL10X/23mm, with micrometer and adjustable diopter | | ○ | ○ | ○ | |
| Objectives | Infinity Plan Achromatic Objectives | 2X/NA=0.06, WD=5.0mm. With frosted glass accessories | | ○ | ○ | ○ |
| | | 4X/NA=0.1, WD=15mm | ● | ○ | ○ | |
| | | 10X/NA=0.25, WD=10.8mm | ● | ○ | ○ | |
| | | 20X/NA=0.4, WD=1.5mm | ● | ○ | ○ | |
| | | 40X/NA=0.65, WD=0.8mm | ● | ○ | ○ | |
| | | 60X/NA=0.85, WD=0.3mm | ● | ○ | ○ | |
| | | 100X/NA=1.25, WD=0.21mm | ● | ○ | ○ | |
| | Infinity Semi-Apochromatic Fluorescence Objectives | 4X/NA=0.13, WD=16.4mm | | ○ | ○ | ○ |
| | | 10X/NA=0.3, WD=8.1mm | | ○ | ○ | ○ |
| | | 20X/NA=0.5, WD=2mm | | ○ | ○ | ○ |
| | | 40X/NA=0.75, WD=0.74mm | | ○ | ○ | ○ |
| | | 100X/NA=1.28, WD=0.14mm | | ○ | ○ | ○ |
| | Infinity Plan Apochromatic Objectives | 1.25X/NA=0.04, WD=4.8mm | | ○ | ○ | ○ |
| | | 2X/NA=0.08, WD=6.2mm. With frosted glass accessories | | ○ | ○ | ○ |
| | | 4X/NA=0.16, WD=12.8mm | | ○ | ● | ● |
| | | 10X/NA=0.4, WD=3.2mm | | ○ | ● | ● |
| | | 20X/NA=0.75, WD=0.6mm | | ○ | ● | ● |
| | | 40X/NA=0.95, WD=0.15mm | | ○ | ● | ● |
| | | 60X/NA=0.9, WD=0.26mm | | ○ | ○ | ○ |
| | | 60X/NA=1.25, WD=0.14mm | | ○ | ○ | ○ |
| | 100X/NA=1.35, WD=0.13mm | | ○ | ● | ● | |
| Infinity Plan Apochromatic Positive Phase Contrast Objectives | 4X/NA=0.16, WD=12.8mm | | ○ | ○ | ○ | |
| | 10X/NA=0.4, WD=3.2mm | | ○ | ○ | ○ | |
| | 20X/NA=0.75, WD=0.6mm | | ○ | ○ | ○ | |
| | 40X/NA=0.95, WD=0.15mm | | ○ | ○ | ○ | |
| | 60X/NA=0.9, WD=0.26mm | | ○ | ○ | ○ | |
| | 100X/NA=1.35, WD=0.13mm | | ○ | ○ | ○ | |
| Nosepiece | Inward quintuple bright field nosepiece, with DIC slot | | ○ | ○ | ○ | |
| | Inward sextuple bright field nosepiece, with DIC slot | | ● | ● | ● | |
| | Inward sextuple bright field nosepiece, with DIC slot, with brightness memory function | | ○ | ○ | ○ | |
| | Inward septuple bright field nosepiece, with DIC slot | | ○ | ○ | ○ | |

| | | | | |
|--|--|---|---|---|
| Frame | Biological transmitted frame with low position coaxial focusing mechanism, coarse range: 25mm, fine precision: 0.001mm, with upper limit and tension adjustment. Built-in 100-240V wide voltage system, intensity adjustable by digital set and reset, with brightness setting button and reset button, built-in transmitted filters (LBD/ND6/ND25). | • | • | • |
| | Biological transmitted frame with low position coaxial focusing mechanism, coarse range: 25mm, fine precision: 0.001mm, with upper limit and tension adjustment. Intensity adjustable by digital set and reset, with brightness setting button and reset button, built-in transmitted filters (LBD/ND6/ND25), with ECO system and brightness memory function. (External wide voltage transformer required) | ○ | ○ | ○ |
| | Biological transmitted frame with low position coaxial focusing mechanism, coarse range: 25mm, fine precision: 0.001mm, with upper limit and tension adjustment. External 100-240V wide voltage system, intensity adjustable by digital set and reset, with brightness setting button and reset button, built-in transmitted filters (LBD/ND6/ND25). | ○ | ○ | ○ |
| | External wide voltage transformer, input 100V-240V, output 12V/11.5A | ○ | ○ | ○ |
| Stage | Double layers mechanical stage, size: 187mm*168mm; moving range: 80mm*55mm, precision: 0.1mm. Two-way linear drive; X, Y moving hand wheel in right or left hand, tension adjustable. | • | • | • |
| Condenser | Swing-out type achromatic condenser, NA 0.9 | • | • | ○ |
| | Abbe condenser, NA 1.1, with variable aperture diaphragm | ○ | ○ | ○ |
| | Condenser with 3 small holes and 5 large holes. 3 adjustable center small holes can be used to install phase contrast rings, 2 adjustable center large holes can be used to install both dark field rings or DIC rings, and the other 3 large holes can only be used to install DIC rings. | ○ | ○ | • |
| | Small condenser lens (Low magnification), NA 0.2 | ○ | ○ | ○ |
| | Small condenser lens (Dry), NA 0.9 | ○ | ○ | • |
| | Small condenser lens (Oil), NA 1.4 | ○ | ○ | ○ |
| | 10X aperture kit | ○ | ○ | ○ |
| | 20X/40X/60X aperture kit | ○ | ○ | ○ |
| | 100X aperture kit | ○ | ○ | ○ |
| | 4X aperture kit | ○ | ○ | ○ |
| | Black field kit (Dry) (applicable to objectives with NA<=0.75) | ○ | ○ | ○ |
| Black field kit (Oil) (applicable to objectives with NA<=0.95) | ○ | ○ | ○ | |
| DIC | Transmitted DIC kit | ○ | ○ | • |
| | 10X transmitted DIC ring | ○ | ○ | • |
| | 20X transmitted DIC ring | ○ | ○ | • |

| | | | | |
|--------------------------|---|---|---|---|
| | 40X/60X transmitted DIC ring | ○ | ○ | ● |
| | Transmitted analyzer ring | ○ | ○ | ● |
| Transmitted Illumination | 12V/100W halogen illuminator, filament center preset | ● | ● | ● |
| | 12V/100W halogen lamp | ● | ● | ● |
| | Wide band 3W LED light house (color temperature 4000±100K) | ○ | ○ | ○ |
| Filters | Attenuation filter (Transmittance 25%) | ○ | ○ | ○ |
| | Attenuation filter (Transmittance 50%) | ○ | ○ | ○ |
| | Frosted glass accessories, for 2X objectives | ○ | ○ | ○ |
| Adapter | 0.35X C-mount adapter, focus adjustable (Not recommended for fluorescence / metallographic / polarizing / multi person viewing) | ○ | ○ | ○ |
| | 0.5X C-mount adapter, focus adjustable | ○ | ○ | ○ |
| | 0.65X C-mount adapter, focus adjustable | ○ | ○ | ○ |
| | 1X C-mount adapter | ○ | ○ | ○ |
| Other Accessories | Telescope (Φ30) | ○ | ○ | ○ |
| | High precision micrometer, 0.01mm increment | ○ | ○ | ○ |
| | Fluorescent free oil 30ml | ○ | ○ | ○ |
| | Internal hexagonal Spanner M4 | ● | ● | ● |
| | Internal hexagonal Spanner M5 | ○ | ○ | ○ |

BS-2082BF, BS-2082BF(LED)

| Item | Specification | BS-2082BF | BS-2082BF(LED) |
|----------------|--|-----------|----------------|
| Optical System | Infinite color corrected optical system | ● | ● |
| Viewing Head | 30° inclined infinity trinocular head, inverted image, interpupillary distance: 50-76mm, splitting ratio R:T=0:100 or 20:80 or 100:0 | ● | ● |
| | 30° inclined infinity trinocular head, erect image, interpupillary distance: 50-76mm, splitting ratio R:T=100:0 or 0:100 | ○ | ○ |
| | 5-35° adjustable, inverted image, tilting trinocular head, interpupillary distance: 50-76mm, splitting ratio R:T=100:0 or 50:50 or 0:100 | ○ | ○ |
| | 30° inclined binocular head, inverted image, 360° rotatable, fixed eyepiece tube, interpupillary distance: 54-75mm | ○ | ○ |
| | 30° inclined binocular head, erect image, 360° rotatable, fixed eyepiece tube, interpupillary distance: 54-75mm | ○ | ○ |
| Eyepiece | High eye point wide field plan eyepiece PL10X/25mm, with adjustable diopter | ● | ● |
| | High eye point wide field plan eyepiece PL10X/25mm, with micrometer and adjustable diopter | ○ | ○ |
| | High eye point wide field plan eyepiece PL10X/22mm, with adjustable diopter | ○ | ○ |
| | High eye point wide field plan eyepiece PL10X/22mm, with stop screw and adjustable diopter | ○ | ○ |
| | High eye point wide field plan eyepiece PL10X/23mm, with adjustable diopter | ○ | ○ |

| | | | | |
|-------------------------|--|--|---|---|
| | High eye point wide field plan eyepiece PL10X/23mm, with micrometer and adjustable diopter | | ○ | ○ |
| Objectives | Infinity Plan Achromatic Objectives | 2X/NA=0.06, WD=5.0mm. With frosted glass accessories | ○ | ○ |
| | | 4X/NA=0.1, WD=15mm | ○ | ○ |
| | | 10X/NA=0.25, WD=10.8mm | ○ | ○ |
| | | 20X/NA=0.4, WD=1.5mm | ○ | ○ |
| | | 40X/NA=0.65, WD=0.8mm | ○ | ○ |
| | | 60X/NA=0.85, WD=0.3mm | ○ | ○ |
| | | 100X/NA=1.25, WD=0.21mm | ○ | ○ |
| | Infinity Semi-Apochromatic Fluorescence Objectives | 4X/NA=0.13, WD=16.4mm | ● | ● |
| | | 10X/NA=0.3, WD=8.1mm | ● | ● |
| | | 20X/NA=0.5, WD=2mm | ● | ● |
| | | 40X/NA=0.75, WD=0.74mm | ● | ● |
| | | 100X/NA=1.28, WD=0.14mm | ● | ● |
| | Infinity Plan Apochromatic Objectives | 1.25X/NA=0.04, WD=4.8mm | ○ | ○ |
| | | 2X/NA=0.08, WD=6.2mm. With frosted glass accessories | ○ | ○ |
| | | 4X/NA=0.16, WD=12.8mm | ○ | ○ |
| | | 10X/NA=0.4, WD=3.2mm | ○ | ○ |
| | | 20X/NA=0.75, WD=0.6mm | ○ | ○ |
| | | 40X/NA=0.95, WD=0.15mm | ○ | ○ |
| | | 60X/NA=0.9, WD=0.26mm | ○ | ○ |
| | | 100X/NA=1.35, WD=0.13mm | ○ | ○ |
| | Infinity Plan Apochromatic Positive Phase Contrast Objectives | 4X/NA=0.16, WD=12.8mm | ○ | ○ |
| | | 10X/NA=0.4, WD=3.2mm | ○ | ○ |
| | | 20X/NA=0.75, WD=0.6mm | ○ | ○ |
| | | 40X/NA=0.95, WD=0.15mm | ○ | ○ |
| 60X/NA=0.9, WD=0.26mm | | ○ | ○ | |
| 100X/NA=1.35, WD=0.13mm | | ○ | ○ | |
| Nosepiece | Inward quintuple bright field nosepiece, with DIC slot | ○ | ○ | |
| | Inward sextuple bright field nosepiece, with DIC slot | ● | ○ | |
| | Inward sextuple bright field nosepiece, with DIC slot, with brightness memory function | ○ | ● | |
| | Inward septuple bright field nosepiece, with DIC slot | ○ | ○ | |
| Frame | Fluorescence transmitted frame with low position coaxial focusing mechanism, coarse range: 25mm, fine precision: 0.001mm, with upper limit and tension adjustment. Built-in 100-240V wide voltage system, intensity adjustable by digital set and reset, with brightness setting button and reset button, built-in transmitted filters (LBD/ND6/ND25). | ● | | |
| | Fluorescence transmitted frame with low position coaxial focusing mechanism, coarse range: 25mm, fine precision: 0.001mm, with upper | ○ | | |

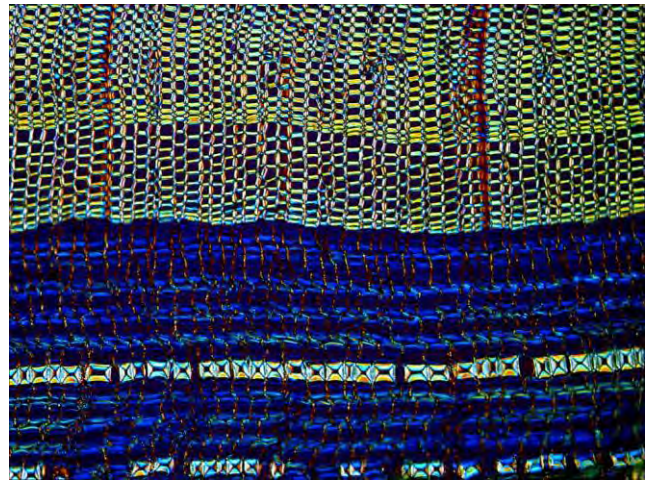
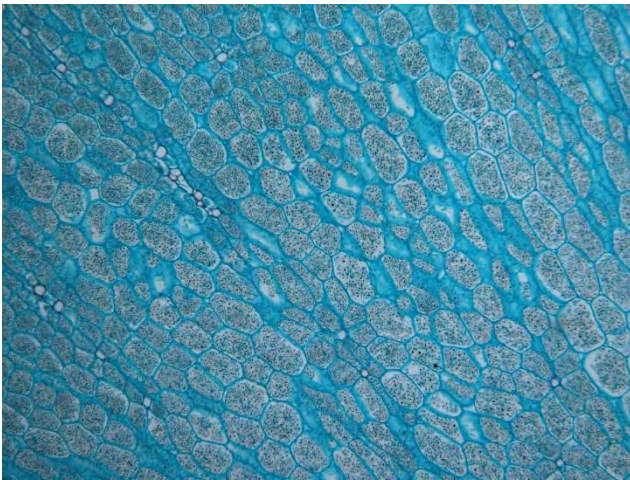
| | | | |
|--------------------------|---|---|---|
| | limit and tension adjustment. Using an external wide voltage transformer, input 100V-240V, output 12V/11.5A, intensity adjustable by digital set and reset, built-in transmission light filters (LBD, ND6, ND25), with ECO system and brightness memory function (transmission). (External wide voltage transformer required) | | |
| | Compound eye lighting system, low position coaxial focusing mechanism, coarse range: 25mm, fine precision: 0.001mm, with upper limit and tension adjustment. External wide voltage transformer, input 100V-240V, output 15V/2.67A, continuous adjustable light intensity, with brightness memory function (transmission), unified power supply for upper and lower light sources. | | • |
| | External wide voltage transformer, input 100V-240V, output 12V/11.5A | ○ | |
| Stage | Double layers mechanical stage, size: 187mm*168mm; moving range: 80mm*55mm, precision: 0.1mm. Two-way linear drive; X, Y moving hand wheel in right or left hand, tension adjustable. | • | • |
| Condenser | Swing-out type achromatic condenser, NA 0.9 | • | |
| | Abbe condenser, NA 1.1, with variable aperture diaphragm | | • |
| | Condenser with 3 small holes and 5 large holes. 3 adjustable center small holes can be used to install phase contrast rings, 2 adjustable center large holes can be used to install both dark field rings or DIC rings, and the other 3 large holes can only be used to install DIC rings. | ○ | ○ |
| | Small condenser lens (Low magnification), NA 0.2 | ○ | ○ |
| | Small condenser lens (Dry), NA 0.9 | ○ | ○ |
| | Small condenser lens (Oil), NA 1.4 | ○ | ○ |
| | 10X aperture kit | ○ | ○ |
| | 20X/40X/60X aperture kit | ○ | ○ |
| | 100X aperture kit | ○ | ○ |
| | 4X aperture kit | ○ | ○ |
| | Black field kit (Dry) (applicable to objectives with NA<=0.75) | ○ | ○ |
| | Black field kit (Oil) (applicable to objectives with NA<=0.95) | ○ | ○ |
| DIC | Transmitted DIC kit | ○ | ○ |
| | 10X transmitted DIC ring | ○ | ○ |
| | 20X transmitted DIC ring | ○ | ○ |
| | 40X/60X transmitted DIC ring | ○ | ○ |
| | Transmitted analyzer ring | ○ | ○ |
| Transmitted Illumination | 12V/100W halogen illuminator, filament center preset | • | |
| | 12V/100W halogen lamp | • | |
| | Wide band 3W LED light house (color temperature 4000±100K) | | • |
| Filters | Attenuation filter (Transmittance 25%) | ○ | |
| | Attenuation filter (Transmittance 50%) | • | |
| | Frosted glass accessories, for 2X objectives | ○ | ○ |

| | | | |
|----------------------------------|--|---|---|
| Fluorescent Module | Disc-shaped reflective fluorescent illuminator with 6 holes, with variable aperture and field diaphragm, center adjustable, with filter slots and polarizer slots, with fluorescence light barrier | • | |
| | Four channel LED fluorescent illuminator, including 365/460/525/625nm four excitation channels, channel trigger control<500ms, independent and controllable light intensity, 10W high-power LED, designed for a lifespan of over 20000 hours, supporting SDK control. With fluorescence light barrier. | | • |
| | 100W mercury lamp house, reflector pre centering | • | |
| | Power box for mercury lamp | • | |
| | 100W DC mercury lamp | • | |
| | UV fluorescent module, EX: AT375/28X, Φ25mm; BS: AT415DC, 25.5*36*1mm; EM: AT460/50M, Φ25mm (for Disc-shaped reflective fluorescent illuminator with 6 holes) | • | |
| | UV fluorescent module, EX: 375/28, Φ25mm; DM: 415, 25.7*36*1mm; EM: 460/50M, Φ25mm (for Disc-shaped reflective fluorescent illuminator with 6 holes) | ○ | |
| | V fluorescent module, EX: AT435/20X, Φ25mm; BS: AT455DC, 25.5*36*1mm; EM: AT480/30M, Φ25mm (for Disc-shaped reflective fluorescent illuminator with 6 holes) | ○ | |
| | B fluorescent module, EX: AT480/30X, Φ25mm; BS: AT505DC, 25.5*36*1mm; EM: AT535/40M, Φ25mm (for Disc-shaped reflective fluorescent illuminator with 6 holes) | • | |
| | B fluorescent module, EX: 480/30, Φ25mm; DM: 505, 25.5*36*1mm; EM: 535/40, Φ25mm (for Disc-shaped reflective fluorescent illuminator with 6 holes) | ○ | |
| | G fluorescent module, EX: AT560/40X, Φ25mm; BS: AT600DC, 25.5*36*1mm; EM: AT635/60M, Φ25mm (for Disc-shaped reflective fluorescent illuminator with 6 holes) | • | |
| | G fluorescent module, EX: 560/40, Φ25mm; DM:595, 25.5*36*1mm; EM: 635/60, Φ25mm (for Disc-shaped reflective fluorescent illuminator with 6 holes) | ○ | |
| | RI fluorescent module, EX: AT620/50X, Φ25mm; BS: AT655DC, 25.5*36*1mm; EM: AT690/50M, Φ25mm (for Disc-shaped reflective fluorescent illuminator with 6 holes) | ○ | |
| | B1 band pass filter LED fluorescent module, for LED fluorescent lamp with a center wavelength of 470nm | | • |
| | G1 band pass filter LED fluorescent module, for LED fluorescent lamp with a center wavelength of 560nm | | • |
| | UV1 band pass filter LED fluorescent module, for LED fluorescent lamp with a center wavelength of 385nm | | • |
| | B4 long pass filter LED fluorescent module, for LED fluorescent lamp with a center wavelength of 455nm | | ○ |
| Fluorescence centering objective | • | | |

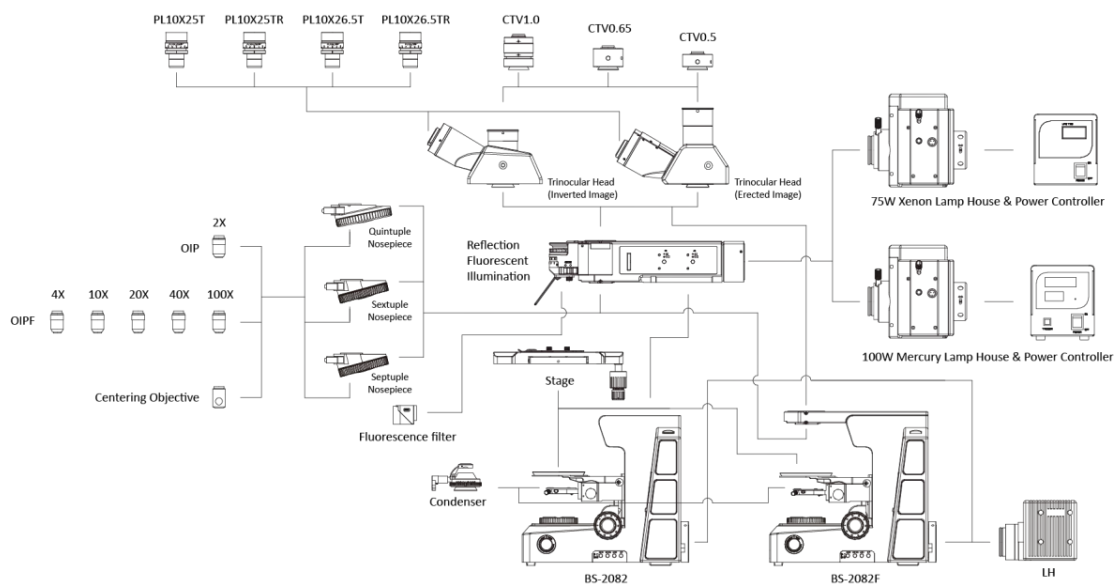
| | | | |
|-------------------|---|---|---|
| Adapter | 0.35X C-mount adapter, focus adjustable (Not recommended for fluorescence / metallographic / polarizing / multi person viewing) | ○ | ○ |
| | 0.5X C-mount adapter, focus adjustable | ○ | ○ |
| | 0.65X C-mount adapter, focus adjustable | ○ | ○ |
| | 1X C-mount adapter | ○ | ○ |
| Other Accessories | Telescope (Φ30) | ○ | ○ |
| | High precision micrometer, 0.01mm increment | ○ | ○ |
| | Fluorescent free oil 30ml | ● | ● |
| | Internal hexagonal Spanner M4 | ● | ● |
| | Internal hexagonal Spanner M5 | ● | ○ |

Note: ● Standard Outfit, ○ Optional

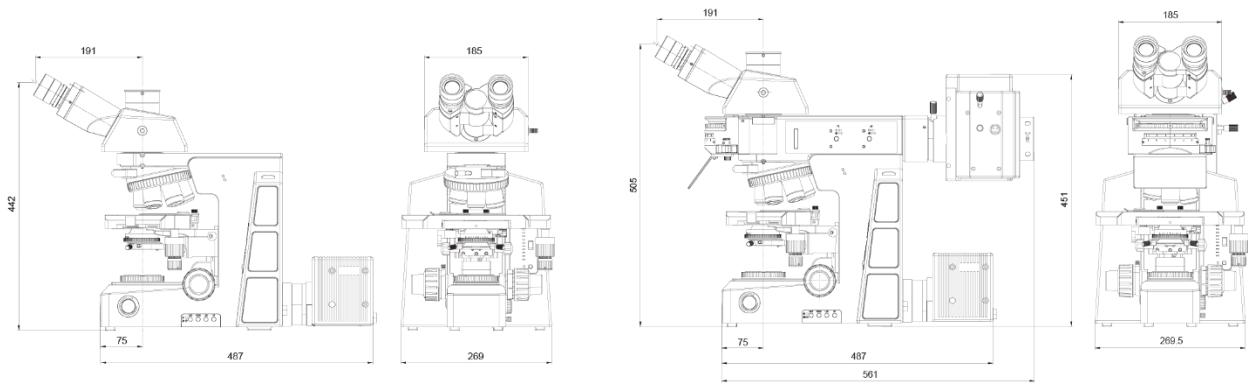
Sample Image



System Diagram



Dimension



Unit: mm

42. BS-2083 Research Biological Microscope



BS-2083



BS-2083F

Introduction

BS-2083 biological microscope has been designed to present a safe, comfortable and precision observation experience. The motorized nosepiece and condenser will make your works easier. With perfectly performed structure, high-definition optical image and ergonomical operating system, BS-2083 realizes professional analysis and meets all the needs of research in biological, medical, life science and other fields.

Features

1. Sapphire Glass Stage Insert.



Mechanical stage with sapphire glass insert is durable, never could be scratched and allows users to clear the stage easily.

2. Put Slide by One Hand.



It is easy for users to put slides by one hand due to the special designed slide clip.

3. Image Capture Button.



There is a cable from the microscope, the cable could be connected to the digital camera, after connection, just press the "CAPTURE" button at the right side of the microscope base, then you could capture the image easily.

4. Tilting Trinocular Head.



- (1) The eye tube can be adjusted from 0°-35°.
- (2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
- (3) The beam splitter has 3-position (100:0, 20:80, 0:100).
- (4) The splitter bar can be assembled on the either side according to user's requirements.

5. Low-Position Focusing System.



Very precise coaxial focusing system with fine division of 1 μ m, it comes with low-position coarse and fine focusing knobs, the ergonomic design provides comfortable experience for users.

6. Motorized Objective Change.



Objectives could be switched by simply pressing the buttons. Users could also self-define two of the most commonly used objectives and switch between them with the green button. The illumination has connection with the objective, when the objective is changed, the light intensity will also be changed accordingly.

7. Nosepiece Rotating Buttons.



This microscope has the function of motorized rotating nosepiece with the 2 buttons.

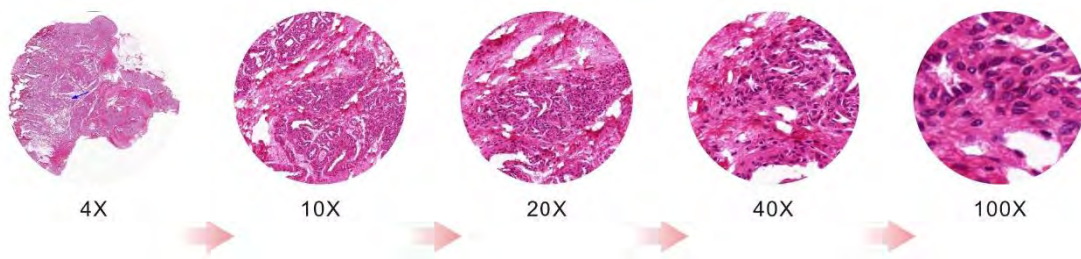
8. Motorized Swing-out Condenser.



The top-lens on the condenser will be automatically swing-in or swing-out according to the objective lens that is selected.

9. Light Intensity Management.

The illumination has connection with the objective, when the objective is changed, the light intensity will also be changed accordingly. Thus, from low to high magnification, the field of view maintains the same brightness. There is no need to manually adjust the intensity of the light and also reduce eye fatigue. The long-life LED light source ensures uniform brightness while is easy to maintain.



Application

This microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specification

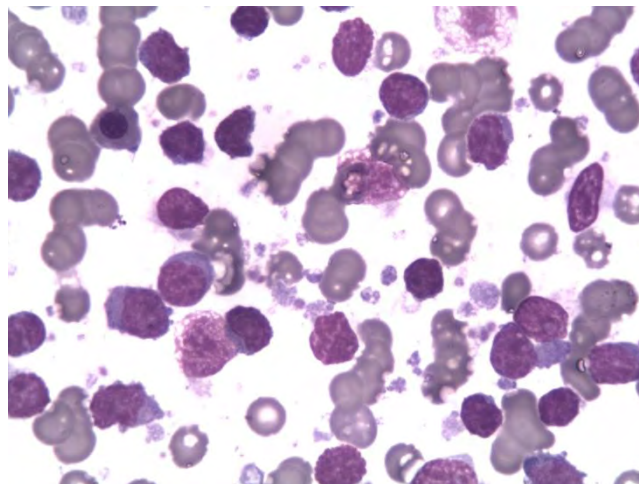
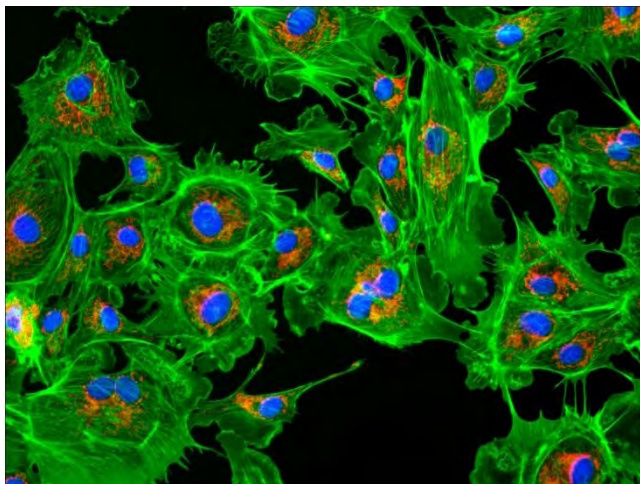
| Item | Specification | BS-2083 | BS-2083F |
|----------------|---|---------|----------|
| Optical System | NIS60 Infinite Color Corrected Optical System | • | • |
| Viewing Head | Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100 | • | • |

| | | | | |
|------------------------------------|---|--|---|---|
| | Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100 | ○ | ○ | |
| | Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm | ○ | ○ | |
| Eyepiece | Super wide field plan eyepiece SW10X/25mm, diopter adjustable | ● | ● | |
| | Super wide field plan eyepiece SW10X/22mm, diopter adjustable | ○ | ○ | |
| | Extra wide field plan eyepiece EW12.5X/16mm, diopter adjustable | ○ | ○ | |
| | Wide field plan eyepiece WF15X/16mm, diopter adjustable | ○ | ○ | |
| | Wide field plan eyepiece WF20X/12mm, diopter adjustable | ○ | ○ | |
| Objective | N-PLN Plan Objective | N-PLN 2X/NA=0.06, WD=7.5mm | ○ | ○ |
| | | N-PLN 4X/NA=0.10, WD=30mm | ● | ● |
| | | N-PLN 10X/NA=0.25, WD=10.2mm | ● | ● |
| | | N-PLN 20X/NA=0.40, WD=12mm | ● | ● |
| | | N-PLN 40X/NA=0.65, WD=0.7mm | ● | ● |
| | | N-PLN 100X(Oil)/NA=1.25, WD=0.2mm | ● | ● |
| | | N-PLN 50X(Oil)/NA=0.95, WD=0.19mm | ○ | ○ |
| | | N-PLN 60X/NA=0.80, WD=0.3mm | ○ | ○ |
| | N-PLN PH Plan Phase Contrast Objective | N-PLN PH 10X/NA=0.25, WD=10.2mm | ○ | ○ |
| | | N-PLN PH 20X/NA=0.40, WD=12mm | ○ | ○ |
| | | N-PLN PH 40X/NA=0.65, WD=0.7mm | ○ | ○ |
| | | N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm | ○ | ○ |
| | N-PLFN Plan Semi-apochromatic Fluorescent Objective | N-PLFN 4X/NA=0.13, WD=17.2mm | ○ | ○ |
| | | N-PLFN 10X/NA=0.30, WD=16.0mm | ○ | ○ |
| | | N-PLFN 20X/NA=0.50, WD=2.1mm | ○ | ○ |
| | | N-PLFN 40X/NA=0.75, WD=1.5mm | ○ | ○ |
| | N-PLFN PH Plan Semi-apochromatic Fluorescent Phase Contrast Objective | N-PLFN PH 10X/NA=0.30, WD=15.8mm | ○ | ○ |
| | | N-PLFN PH 20X/NA=0.50, WD=2.7mm | ○ | ○ |
| | | N-PLFN PH 40X/NA=0.75, WD=1.35mm | ○ | ○ |
| | | N-PLFN PH 100X(Oil)/NA=1.40, WD=0.18mm | ○ | ○ |
| | N-PLPN Plan Apochromatic Objective | N-PLPN 10X/NA=0.30, WD=15.8mm | ○ | ○ |
| | | N-PLPN 10X/NA=0.45, WD=4.0mm | ○ | ○ |
| | | N-PLPN 20X/NA=0.75, WD=1.1mm | ○ | ○ |
| N-PLPN 40X/NA=0.95, WD=0.21mm | | ○ | ○ | |
| N-PLPN 60X(Oil)/NA=1.42, WD=0.25mm | | ○ | ○ | |
| | N-PLPN 100X(Oil)/NA=1.45, WD=0.13mm | ○ | ○ | |
| Nosepiece | Motorized Backward Sextuple Nosepiece (with DIC slot) | ● | ● | |
| Condenser | Swing-out type condenser N.A.0.9/0.25(Auto) | ● | ● | |
| | Turret Phase Contrast Condenser | ○ | ○ | |
| | Dark-field Condenser (Dry), used for objectives lower than 100X | ○ | ○ | |
| | Dark-field Condenser (Oil), used for 100X objective | ○ | ○ | |
| | 3W S-LED lamp, center pre-set, intensity adjustable | ● | ● | |

| | | | |
|--|---|---|---|
| Transmitted Illumination | 12V/100W halogen lamp, center pre-set, intensity adjustable | ○ | ○ |
| Focusing | Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 35mm | ● | ● |
| Stage | Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slides holder, Right or left handle); precision: 0.1mm; with Sapphire Crystal Glass Insert | ● | ● |
| | Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slides holder, Right or left handle); precision: 0.1mm | ○ | ○ |
| DIC Kit | 10X DIC Objective Lens | ○ | ○ |
| | 20X DIC Objective Lens | ○ | ○ |
| | Polarizer for DIC Kit | ○ | ○ |
| | DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece | ○ | ○ |
| | DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece | ○ | ○ |
| | DIC Turret Condenser | ○ | ○ |
| Reflected Fluorescence Illuminator (with mercury lamp) | Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot; with fluorescence B, G filters | ○ | ● |
| | 100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable. | ○ | ● |
| | Digital power controller, wide voltage 100-240VAC | ○ | ● |
| | ND6/ND25 Filter | ○ | ○ |
| | U, V, R, FITC, DAPI, TRITC, Auramine, mCherry, FL-BG fluorescent filters | ○ | ○ |
| Reflected Fluorescent Attachment (with LED lamps) | LED Reflected Fluorescent Attachment, Turret with 6-position for filter block cubes, including B, G fluorescent filters and B, G, U, R LED lamps (the LED lamps can be used for B, G, U, R, FITC, DAPI, TRITC fluorescent filters), there are 4 positions for the LED lamps | ○ | ○ |
| | U, R, FITC, DAPI, TRITC fluorescent filters | ○ | ○ |
| Other Accessories | 0.5X, 1X C-mount Adapter | ○ | ○ |
| | Dust Cover | ● | ● |
| | Power Cord | ● | ● |
| | Cedar Oil 5ml | ● | ● |
| | Simple Polarizing kit | ○ | ○ |
| | Calibration slide 0.01mm | ○ | ○ |
| | Multi Viewing Attachment for 2/3/5/7/10 person | ○ | ○ |

Note: ● Standard Outfit, ○ Optional

Sample Image



Accessories

1. N-PLN Series Plan Objectives.



The Plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

2. N-PLN PH Series Plan Phase Contrast Objectives.



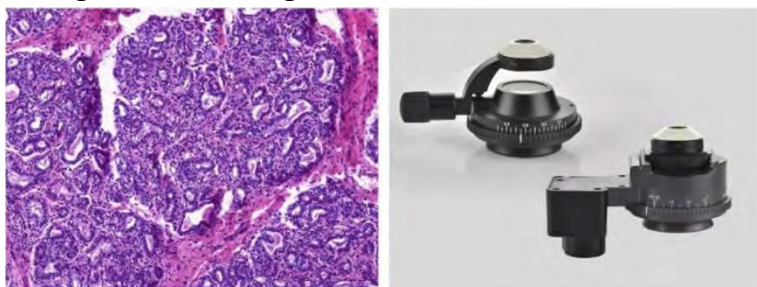
These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.



Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

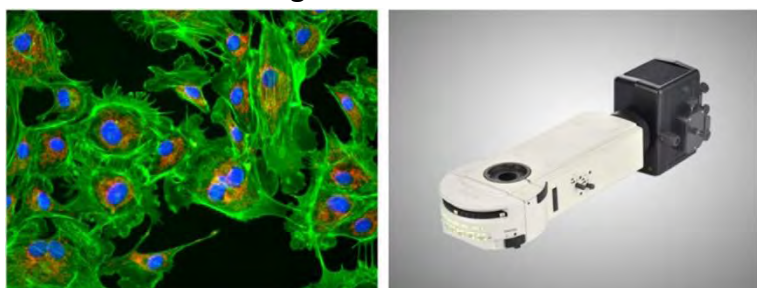
4. Bright field Viewing.



Mammary Gland (active stage)

Brighter image, high resolution and flatness, suitable for all the magnifications.

5. Fluorescent Viewing.



Arterial Cell

The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.

6. Phase Contrast Viewing.



Rat Ovarian Cell

Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

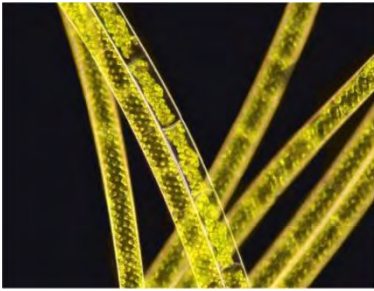
7. Polarizing Viewing.



It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

Uric Acid Crystal

8. Dark-field Viewing.



It can be used for clearly viewing of blood or flagellum etc., fine structure.

Spirogyra

9. Multi Viewing Heads.



2 Viewing heads (Face to Face)

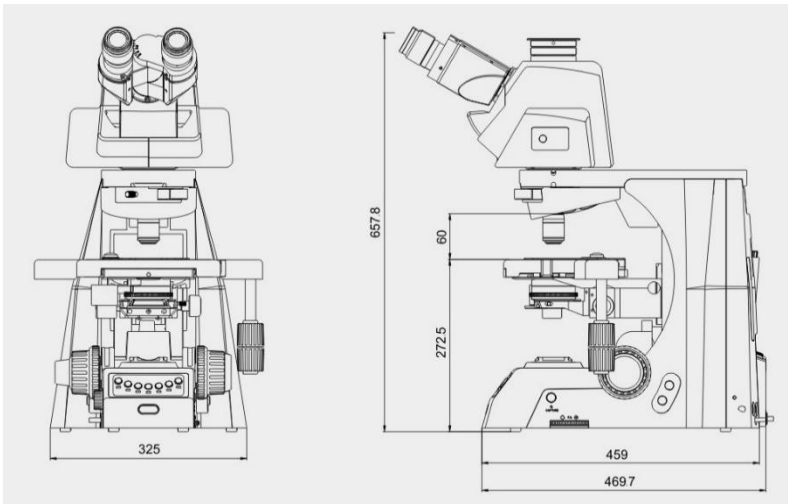


2 Viewing heads (Side to Side)



5 Viewing heads

Dimension



Unit: mm

43. BS-2084 Biological Microscope



BS-2084

Introduction

BS-2084 series biological microscope is an innovative device that combines traditional microscopy observation with modern scanning technology. It not only retains the classic functions of a microscope but also serves as a digital scanning device for slide pathology scanning, greatly enhancing the working efficiency in the fields of research and medicine.

Feature

1. High-quality real-time image acquisition



Equipped with a high-performance camera, the BS-2084 series is capable of capturing high-definition images in real-time and supports photography function, allowing users to instantly save important observation results.

2. One-button fully automatic scanning imaging



One-button full-slide imaging, providing an overview of the entire slide information. Greatly improves work efficiency, helps reduce human errors, and enhances the accuracy and reliability of data.

3. Fully motorized XYZ axis manual-motorized integrated



Equipped with fully motorized X/Y/Z axis control, enabling precise and convenient sample positioning and focusing. Users can choose between manual adjustment or activate automatic scanning mode to adapt to different observation needs

4. Compound illuminating system

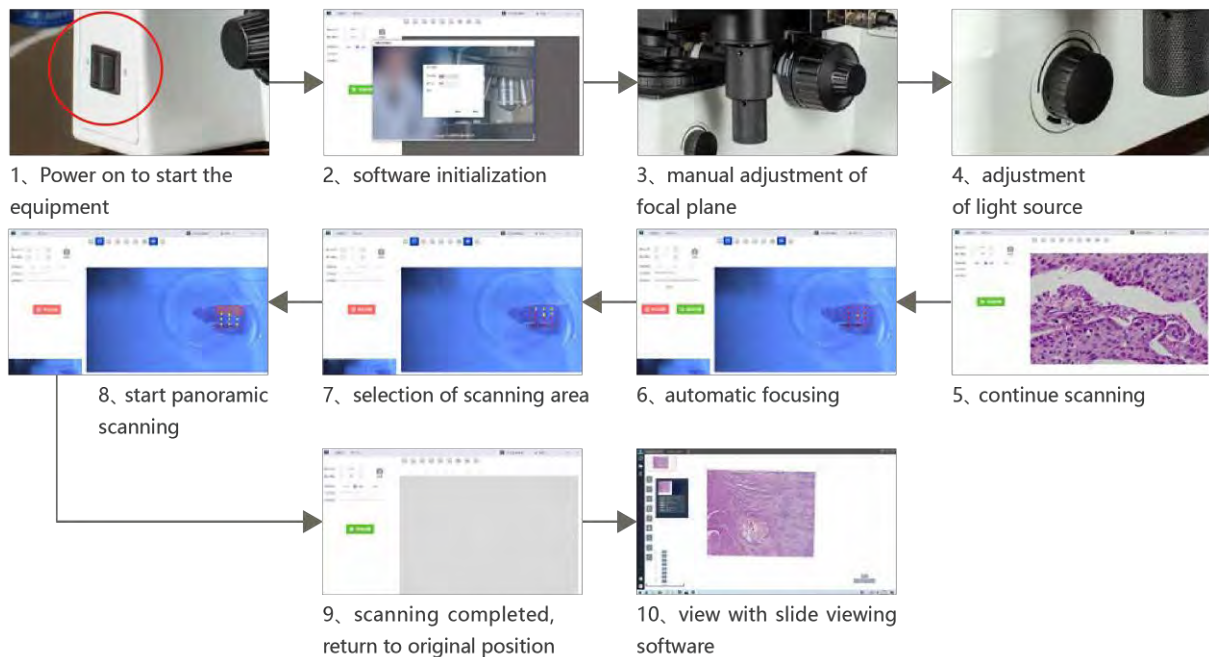
Using a compound illuminating system to enhance contrast and effectively improve the uniformity of specimen illumination, ensuring uniform brightness across the entire field of view. Even at the edges of the field of view, uniform and bright background brightness can be achieved at any magnification.

5. LED light source, safe and environmental-friendly



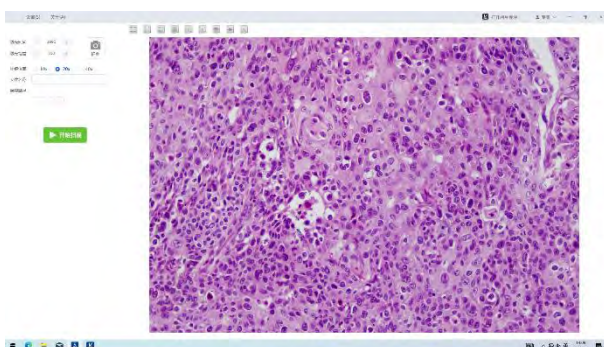
Using LED light source, environmental-friendly and energy-efficient, providing soft and non-glaring illumination. Not only does it produce ideal imaging results, but it also reduces eye fatigue and enhances the observation experience.

6. Scanning Process



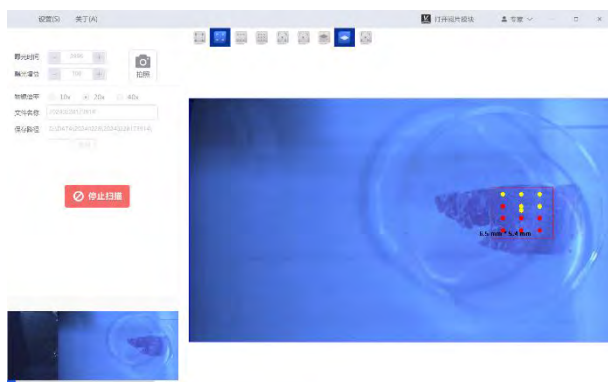
7. Concise exploration, convenient operating software

The operating software of the BS-2084 series biological microscope achieves efficient microscopic observation with its intuitive user interface and advanced software control system. It ensures the accuracy and consistency of slide sample observation. Users can easily perform operations such as autofocus, automatic white balance, and automatic scanning, previewing real-time and capturing panoramic images automatically. The software also features flexible adjustment of exposure time and gain and supports single-layer or multi-layer image scanning, meeting various microscopic observation needs.



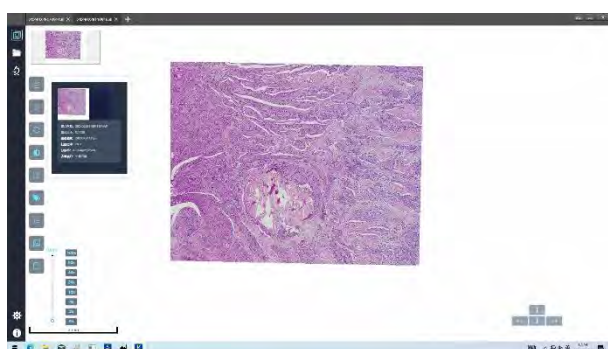
Multi-layer scanning stitching technology

By utilizing high-precision multi-layer scanning technology, it can achieve scanning of areas up to 50mm(X)*25mm(Y), automatically generating largearea sample stitching images, providing users with a broader field of view.



Automatic focusing and white balance

To ensure image quality, the software features automatic focusing, which can quickly and accurately find the optimal focal plane. Meanwhile, the automatic white balance function ensures color accuracy and consistency, allowing accurate color information to be obtained under various lighting conditions.



Automatic scanning and real-time preview

Users can observe real-time imaging of samples through the real-time preview function, facilitating the selection of regions of interest for automatic scanning, thereby saving time and improving scanning efficiency.

Exposure time and gain adjustment

Users can manually adjust the exposure time and gain according to the characteristics of the sample and imaging needs to obtain the best image quality.

Single-layer or multi-layer scanning

The software supports single-layer or multi-layer scanning, suitable for samples of different thicknesses and types, providing great flexibility and applicability.

Specification

| Item | Specification | BS-2084 | |
|----------------|--|-------------------------------|---|
| Optical System | Infinite Color Corrected Optical System | ● | |
| Viewing Head | 30° inclined infinity trinocular head, inverted image, interpupillary distance: 50-76mm, splitting ratio R:T=0:100 or 20:80 or 100:0 | ● | |
| Eyepiece | High eyepoint wide field plan eyepiece PL10X/25mm, with adjustable diopter | ● | |
| Objective | Infinity Plan Apochromatic Objectives | 4X/NA=0.16, WD=12.8mm | ○ |
| | | 10X/NA=0.4, WD=3.2mm | ○ |
| | | 20X/NA=0.75, WD=0.6mm | ● |
| | | 40X/NA=0.95, WD=0.15mm | ● |
| | | 60X/NA=0.9, WD=0.26mm | ○ |
| | | (Oil) 100X/NA=1.35, WD=0.13mm | ○ |
| | | 10X/NA=0.4, WD=3mm | ○ |

| | | | |
|--------------------------|---|-------------------------------|---|
| | Infinity Plan Super Apochromatic Objectives | 20X/NA=0.8, WD=0.6mm | ○ |
| | | 40X/NA=0.95, WD=0.18mm | ○ |
| | | (Oil) 60X/NA=1.42, WD=0.17mm | ○ |
| | | (Oil) 100X/NA=1.45, WD=0.14mm | ○ |
| Nosepiece | Inward quintuple bright field nosepiece, with DIC slot | | ● |
| Microscope Body | Compound eye lighting system, manual and automatic integrated biological frame, including low position coaxial focusing mechanism and automatic focusing mechanism, coarse range: 15mm, fine precision: 0.001mm, automatic focusing range: 3mm, repeated positioning accuracy <1um. Equipped with upper limit and tension adjustment. Brightness continuously adjustable. Including 1.3 mega-pixel macro camera for positioning in the scanning area. | | ● |
| | Wide voltage adapter, grounded, input 100V-240V, output 24V/3.75A | | ○ |
| Stage | Manual and automatic integrated three-layer composite electric stage, stage size: 260mm(X)*221mm(Y), moving range:100mm(X)*50mm(Y), positioning accuracy<5um, repetitive positioning accuracy<±3um. Maximum speed:20mm/s | | ● |
| Condenser | Long working distance abbe condenser, NA >=0.65, with variable aperture diaphragm | | ● |
| Transmitted Illumination | Wide band 3W LED lamp house (cool color, color temperature 4700-5500K) | | ● |
| Camera | 7 mega-pixel high-speed scanning camera, color camera, target size: 1.1" (14.4mm*9.9mm), frame rate: 51.4fps, resolution ratio: 3200*2200, USB 3.0, pixel size: 4.5um*4.5um | | ● |
| Software | Scanning software: Real-time image acquisition and photography. Automatic white balance, brightness adjustment and gain adjustment. Measuring, measure scaling and dimension, measurement data can be exported. PC software control of microscope electric function (X/Y/Z axis). Autofocus, stitching of up to 50mm(X)*25mm(Y) area. The software include Dongle. | | ● |
| PC | DELL Rrecision T3660. CPU: Intel i7 12700. Memory: 32GB. Graphics card: RTX1660S. Display: P2722H (Resolution rate 1920*1080). Hard disk: 1TB SATA, SSD 256 GB. Mainboard: three USB3.0 interfaces. Operating system: Windows 10X64 | | ● |
| Adapter | 1X C-mount adapter, focus adjustable | | ○ |

Note: ● Standard Outfit, ○ Optional

Accessories

1. Infinity Plan Apochromatic Objective

Infinity corrected plan apochromatic objectives correct axial chromatic aberrations in red, green, and blue light, causing them to converge on the same focal plane. They effectively correct spherical aberration in purple light, faithfully reproducing the colors of the observed objects, such as red, green, and blue. With an extra-large numerical aperture, they further enhance resolution and effective magnification.

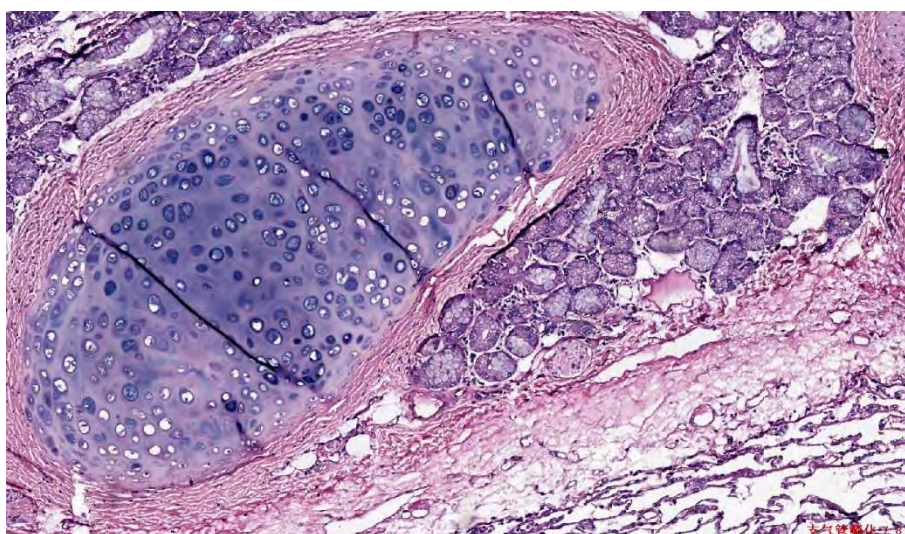
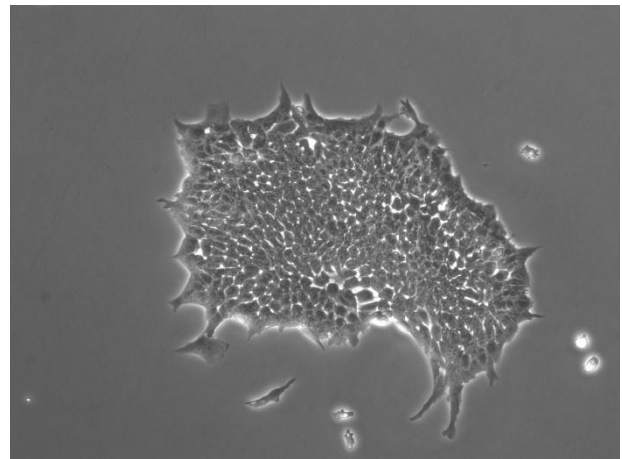
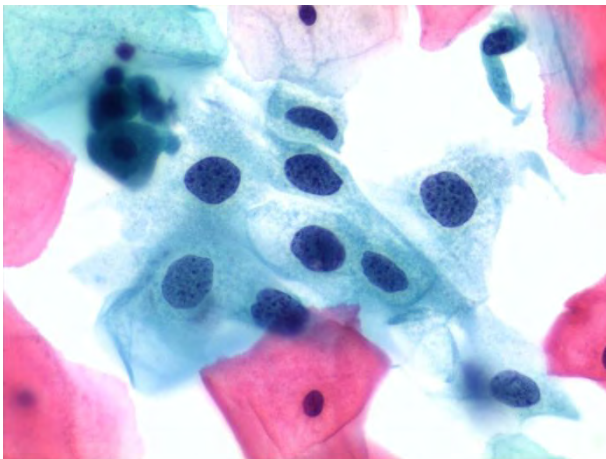


2. Infinity Plan Super Apochromatic Objective

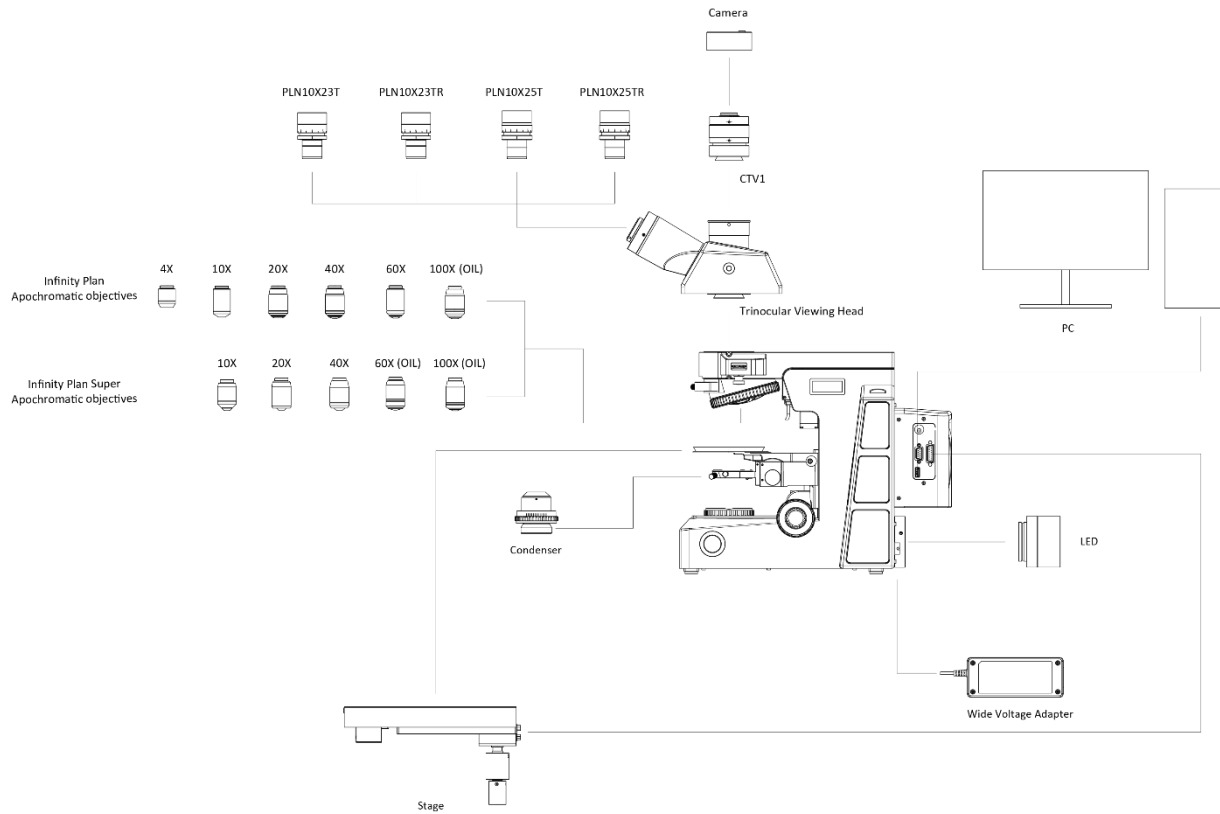
Infinity corrected plan super apochromatic objectives adopt innovative design concepts and break through the technological bottleneck of unconventional-shaped lens elements. They maximize the capture of edge light within a 45mm coaxial zone, resulting in more uniform, brighter, and higher-resolution fluorescence images under equivalent conditions.



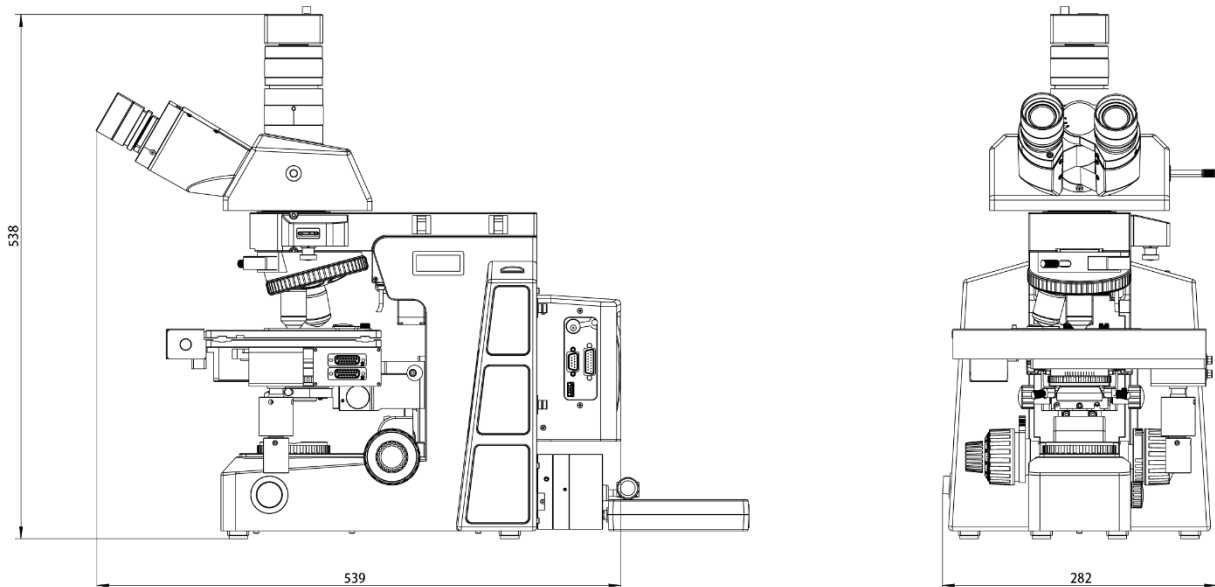
Sample Image



System Diagram



Dimension



Unit:mm

44. BS-2085 Motorized Automatic Biological Microscope



BS-2085



BS-2085F

Introduction

BS-2085 motorized automatic biological microscopes have been designed to present a safe, comfortable and precision observation experience. The motorized X-Y stage and nosepiece, auto focusing, touch screen controller and powerful software will make your works easier. The software has motion controlling, depth of field fusion, objective lens switching, brightness controlling, auto focusing, area scanning, image stitching, 3D imaging functions. Semi-APO objectives and B, G, U, V, R fluorescent filters are available for BS-2085F fluorescent automatic biological microscope. 4pcs slide can be placed on the stage for automatic scanning, a LCD touch screen in front of the microscope, which can show magnification and illumination information. With perfectly performed structure, high-definition optical image and ergonomical operations, BS-2085/BS-2085F realize professional analysis and meet all the needs of research in biological, medical, life science and other fields.

Features

1. Adopt line motor and screw driving mode.



Low-hand electric focusing mechanism, independent operation of left and right hand wheels, three speed adjustment, focusing range 30mm, repeat positioning accuracy: 0.1µm.

2. Tilting Trinocular Head is optional.



- (1) The eye tube can be adjusted from 0°-35°.
- (2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
- (3) The beam splitter has 3-position (100:0, 20:80, 0:100).
- (4) The splitter bar can be assembled on the either side according to user's requirements.

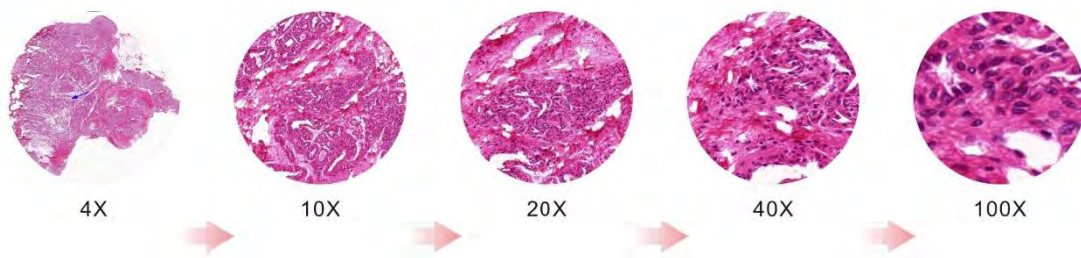
3. Nosepiece Rotating Buttons.



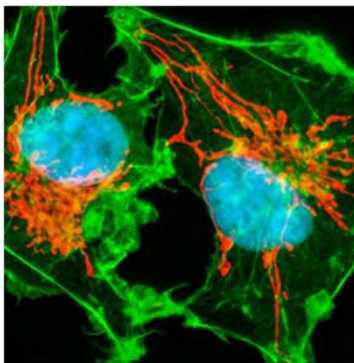
This microscope has the function of motorized rotating nosepiece with the 2 buttons.

4. Light Intensity Management.

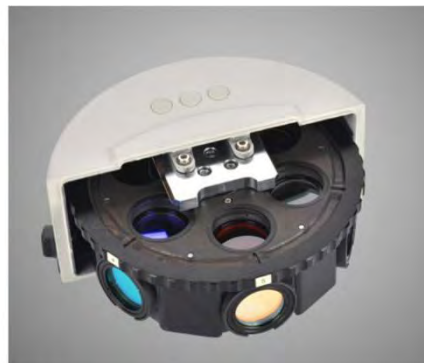
With motorized and coded nosepiece, when the objective is changed, the light intensity will also be changed accordingly. Thus, from low to high magnification, the field of view maintains the same brightness. There is no need to manually adjust the intensity of the light and also reduce eye fatigue. The long-life LED light source ensures uniform brightness while is easy to maintain.



5. 6-Position Turret for fluorescent filter blocks.



Animal Fiber Cell



All the fluorescent filter blocks use the high-performance filter lens. Up to 6 filter blocks can be installed in the turret, that allows users to view different stained specimens with a turret.

6. Can be controlled by the control handle and software.



Control Handle

This microscope can realize LED brightness, objective lens switching, auto focus, and electric adjustment of X-Y-Z axis through the software and control handle. The software can realize depth of field fusion, objective lens switching, brightness control, auto focus, area scanning, image stitching, 3D imaging and other functions.

Application

This motorized automatic microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

Specification

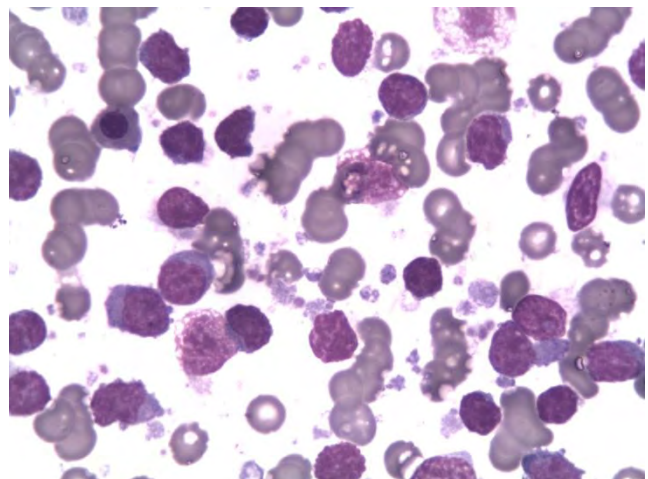
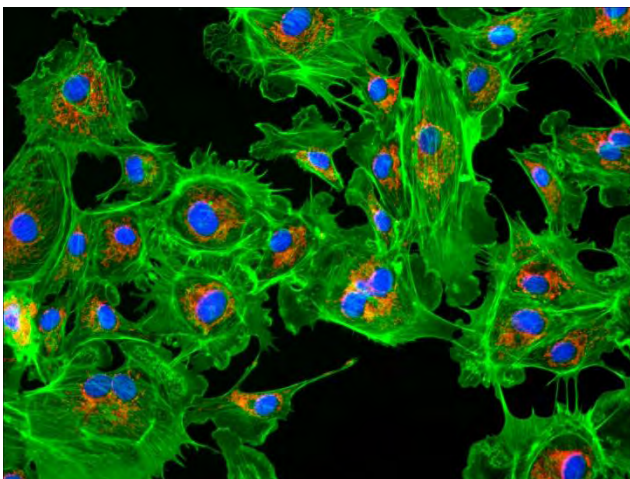
| Item | Specification | BS-2085 | BS-2085F | |
|----------------|---|-----------------------------------|----------|---|
| Optical System | NIS60 Infinite Color Corrected Optical System | ● | ● | |
| Viewing Head | Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100 | ● | ● | |
| | Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100 | ○ | ○ | |
| | Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm | ○ | ○ | |
| Eyepiece | Super wide field plan eyepiece SW10X/25mm, diopter adjustable | ● | ● | |
| | Super wide field plan eyepiece SW10X/22mm, diopter adjustable | ○ | ○ | |
| | Extra wide field plan eyepiece EW12.5X/17.5mm, diopter adjustable | ○ | ○ | |
| | Wide field plan eyepiece WF15X/16mm, diopter adjustable | ○ | ○ | |
| | Wide field plan eyepiece WF20X/12mm, diopter adjustable | ○ | ○ | |
| Objective | N-PLN Plan Objective | N-PLN 2X/NA=0.06, WD=7.5mm | ○ | ○ |
| | | N-PLN 4X/NA=0.10, WD=30mm | ● | ● |
| | | N-PLN 10X/NA=0.25, WD=10.2mm | ● | ● |
| | | N-PLN 20X/NA=0.40, WD=12mm | ● | ● |
| | | N-PLN 40X/NA=0.65, WD=0.7mm | ● | ● |
| | | N-PLN 100X(Oil)/NA=1.25, WD=0.2mm | ● | ● |

| | | | | |
|-------------------------------------|---|---|---|---|
| | | N-PLN 50X(Oil)/NA=0.95, WD=0.19mm | ○ | ○ |
| | | N-PLN 60X/NA=0.80, WD=0.3mm | ○ | ○ |
| | | N-PLN-I 100X (Oil, with Iris Diaphragm)/ NA=0.5-1.25, WD=0.2mm | ○ | ○ |
| | N-PLN PH Plan Phase Contrast Objective | N-PLN PH 10X/NA=0.25, WD=10.2mm | ○ | ○ |
| | | N-PLN PH 20X/NA=0.40, WD=12mm | ○ | ○ |
| | | N-PLN PH 40X/NA=0.65, WD=0.7mm | ○ | ○ |
| | | N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm | ○ | ○ |
| | N-PLFN Plan Semi-apochromatic Fluorescent Objective | N-PLFN 4X/NA=0.13, WD=17.2mm | ○ | ○ |
| | | N-PLFN 10X/NA=0.30, WD=16.0mm | ○ | ○ |
| | | N-PLFN 20X/NA=0.50, WD=2.1mm | ○ | ○ |
| | | N-PLFN 40X/NA=0.75, WD=1.5mm | ○ | ○ |
| | | N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm | ○ | ○ |
| | N-PLFN PH Plan Semi-apochromatic Fluorescent Phase Contrast Objective | N-PLFN PH 10X/NA=0.30, WD=15.8mm | ○ | ○ |
| | | N-PLFN PH 20X/NA=0.50, WD=2.7mm | ○ | ○ |
| | | N-PLFN PH 40X/NA=0.75, WD=1.35mm | ○ | ○ |
| | | N-PLFN PH 100X(Oil)/NA=1.40, WD=0.18mm | ○ | ○ |
| | N-PLPN Plan Apochromatic Objective | N-PLPN 10X/NA=0.45, WD=4.0mm | ○ | ○ |
| N-PLPN 20X/NA=0.75, WD=1.1mm | | ○ | ○ | |
| N-PLPN 40X/NA=0.95, WD=0.21mm | | ○ | ○ | |
| N-PLPN 60X(Oil)/NA=1.42, WD=0.25mm | | ○ | ○ | |
| N-PLPN 100X(Oil)/NA=1.45, WD=0.13mm | | ○ | ○ | |
| Nosepiece | Motorized Backward Sextuple Nosepiece (with DIC slot) | ● | ● | |
| Condenser | Universal Condenser (4X-100X) | ● | ● | |
| | Turret Phase Contrast Condenser | ○ | ○ | |
| | Dark-field Condenser (Dry), used for objectives lower than 100X | ○ | ○ | |
| | Dark-field Condenser (Oil), used for 100X objective | ○ | ○ | |
| Transmitted Illumination | 3W S-LED lamp, center pre-set, intensity adjustable | ● | ● | |
| | 12V/100W halogen lamp, center pre-set, intensity adjustable | ○ | ○ | |
| Focusing | Low-hand Motorized auto focusing mechanism, independent operation of left and right hand wheels, three-speed speed adjustment, focusing range 30mm, repeat positioning accuracy: 0.1μm, motorized escape and recovery mechanism | ● | ● | |
| Stage | High-precision motorized X-Y double layers mechanical stage, size 275 X 239 X 44.5 mm; travel: X axis, 125mm; Y axis, 75mm. Repeat positioning accuracy ±1.5μm, maximum speed 20mm/s | ● | ● | |
| DIC Kit | 10X DIC Objective Lens | ○ | ○ | |
| | 20X DIC Objective Lens | ○ | ○ | |
| | Polarizer for DIC Kit | ○ | ○ | |
| | DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece | ○ | ○ | |
| | DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece | ○ | ○ | |
| | DIC Turret Condenser | ○ | ○ | |
| Reflected Fluorescence | Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot; with fluorescence B, G filters | ○ | ● | |

| | | | |
|---------------------------------------|--|---|---|
| Illuminator (with mercury lamp) | 100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable. | ○ | ● |
| | Digital power controller, wide voltage 100-240VAC | ○ | ● |
| | ND6/ND25 Filter | ○ | ○ |
| | U, V, R, FITC, DAPI, TRITC, Auramine, mCherry, FL-BG fluorescent filters | ○ | ○ |
| Reflected LED Fluorescence Attachment | Fluorescent epi-illuminator, compound eye illumination, with UV eye protection plate | ○ | ○ |
| | Turret with 6 filter block cubes position, up to 4 fluorescent filters can be installed, with fluorescence filters (B,G fluorescent filters) | ○ | ○ |
| | 3W LED fluorescent illumination, up to 4 color fluorescent light sources can be installed, and the brightness is adjustable | ○ | ○ |
| | ND6/ND25 Filter | ○ | ○ |
| Control Handle | 3D control handle, 4 gears speed | ● | ● |
| Controller | Communication interface: USB2.0 and RS232 | ● | ● |
| Other Accessories | 0.5X C-mount Adapter | ● | ● |
| | USB3.0 Digital camera(5.0MP, Sony IMX250, 2/3" CMOS sensor, 35fps@2448x2048) | ○ | ○ |
| | 1X C-mount Adapter | ○ | ○ |
| | 0.7X C-mount Adapter | ○ | ○ |
| | Dust Cover | ● | ● |
| | Power Cord | ● | ● |
| | Cedar Oil 5ml | ● | ● |
| | Simple Polarizing kit | ○ | ○ |
| | Turret Phase Contrast attachment(condenser, objectives, telescope) | ○ | ○ |
| Calibration slide 0.01mm | ○ | ○ | |

Note: ● Standard Outfit, ○ Optional

Sample Image



Accessories

1. N-PLN Series Plan Objectives.



The Plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

2. N-PLN PH Series Plan Phase Contrast Objectives.



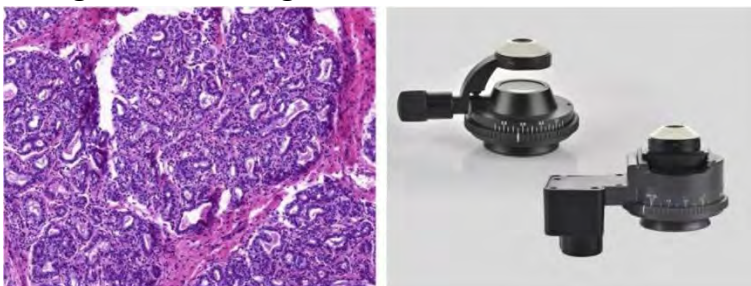
These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.



Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

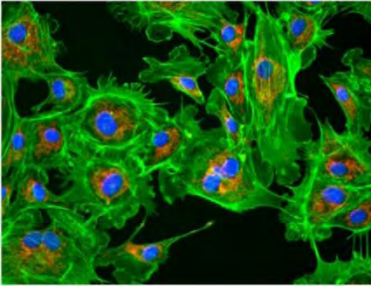
4. Bright field Viewing.



Mammary Gland (active stage)

Brighter image, high resolution and flatness, suitable for all the magnifications.

5. Fluorescent Viewing.

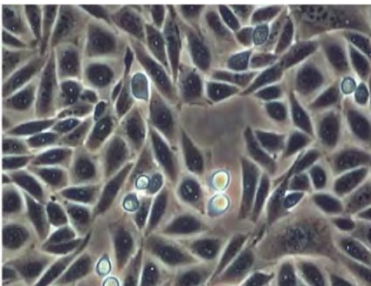


Arterial Cell



The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.

6. Phase Contrast Viewing.

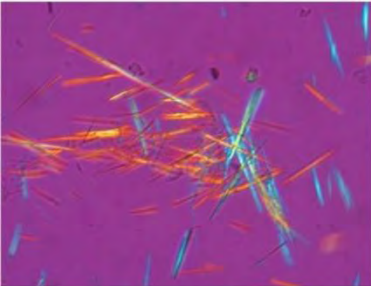


Rat Ovarian Cell

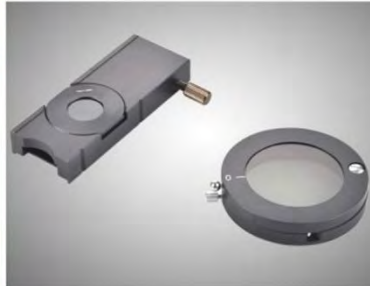


Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

7. Polarizing Viewing.

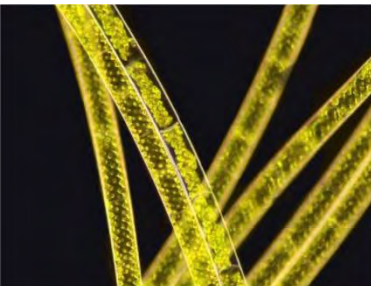


Uric Acid Crystal



It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

8. Dark-field Viewing.



Spirogyra



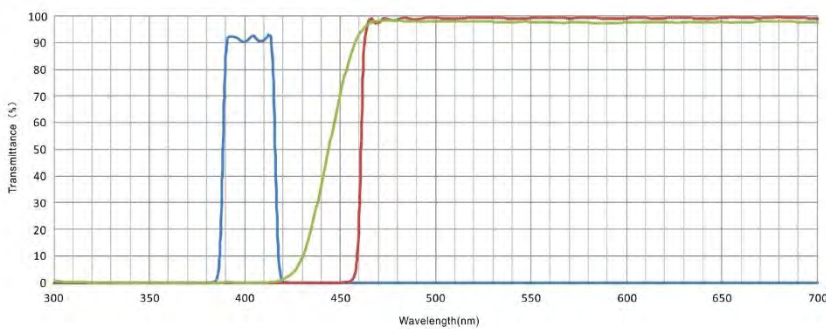
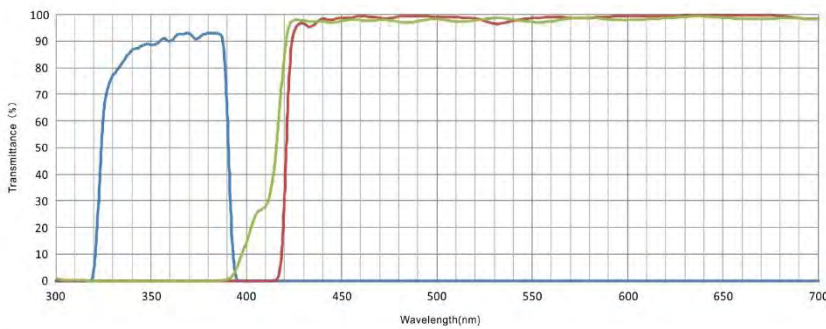
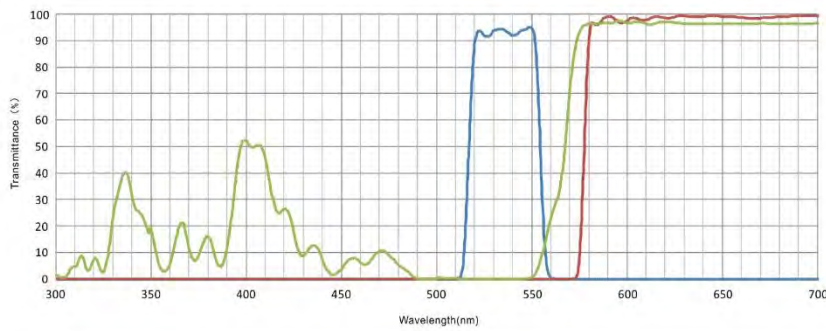
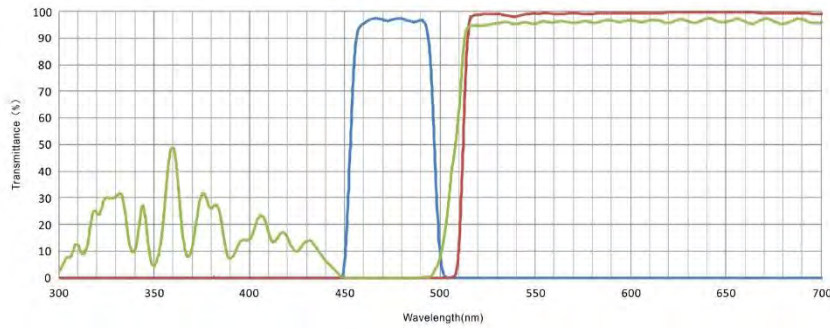
It can be used for clearly viewing of blood or flagellum etc., fine structing.

9. Fluorescent filters.



| Model | Description | Excitation | Dichroic Mirror | Barrier Filter |
|-------|-----------------------------------|---|-----------------|----------------|
| FL-B | B filter block | BP460-495 | DM505 | BA510 |
| FL-B1 | B1 filter block | BP460-495 | DM505 | BA510-550 |
| FL-G | G filter block | BP510-550 | DM570 | BA575 |
| FL-U | U filter block | BP330-385 | DM410 | BA420 |
| FL-V | V filter block | BP400-410 | DM455 | BA460 |
| FL-R | R filter block | BP620-650 | DM660 | BA670-750 |
| FL-O | Fluorescent Block without filters | Optional Excitation and Barrier Filters is Φ 25mm, Dichroic Mirror is 5.8X37.5/1mm, the filters can be installed in the block. | | |

Spectral range



Spectral range

