

## 1. BS-1055 Monocular Video Microscope



BS-1055A/B

### Introduction

BS-1055 Series Monocular Video Microscopes provide high resolution and sharp stereoscopic images. This series microscopes are designed for the applications in the fields of machine vision, industrial inspection and scientific research. Modularization product portfolio and excellent optical performance make them a better choice in these areas.

### Features

#### 1. Zoom ratio

Zoom ratio 1:7.1, zoom range 0.7X-5X, standard working distance 85mm, can meet the requirement of machine vision conventional imaging.

#### 2. Compact design

Compact design, so that all functions are concentrated in a tube, it is very suitable for the small installation space in modern equipment.

#### 3. Diverse accessories

Adopt modular design, various additional accessories are optional to make the microscope a powerful device for your jobs. There are a variety of auxiliary lens and C-mount eyepiece adapter for option. There are also coaxial light source and metallurgical objectives to meet different sample observation needs.

## Application

BS-1055 series Monocular Video Microscope are widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board inspection area and so on. Widely used in electric equipment, semi-conductor, LCD and LED, for digital image observation, inspection and measurement.

## Specification

Item	Specification	BS-1055A	BS-1055B	BS-1055C	BS-1055D
Optical System	Infinite apochromatic parallel optical system	●	●	●	●
Zoom Lens	Optical zoom magnification: 0.7X-5.0X (without click stop)	●		●	
	Optical zoom magnification: 0.7X-5.0X (with click stop)		●		●
Zoom ratio	1:7.1	●	●	●	●
Viewing head	Monocular tube with 10X/18mm eyepiece	○	○	○	○
Objective Angle Device	Objective angle device 90°, inverted image	○	○	○	○
	Objective angle device 90°, erect image	○	○	○	○
Mounting Size	Φ50mm	●	●	●	●
LCD Digital Camera	BLC-480A LCD digital camera with HDMI2.0, USB3.0 and WIFI multi output, 60fps@4K or 60fps@1080P, can capture 8M (3840*2160) pictures, 4K videos and do measurement, control with mouse. With 13.3 inch LCD screen, resolution 1920*1080.	○	○	○	○
	BLC-480B LCD digital camera with HDMI2.0, USB2.0 and WIFI multi output, 30fps@4K or 60fps@1080P, can capture 8M (3840*2160) pictures, 4K videos and do measurement, control with mouse. With 13.3 inch LCD screen, resolution 1920*1080.	○	○	○	○
	BLC-580A LCD digital camera with HDMI2.0, USB, LAN and WIFI multi output, 60fps@4K or 60fps@1080P, can capture 8M (3840*2160) pictures, 4K videos and do measurement, control with mouse. With 13.3 inch LCD screen, resolution 1920*1080.	○	○	○	○
	BLC-580AF LCD digital camera with HDMI2.0, USB and WIFI multi output, with built-in Auto Focus system, 60fps@4K or 60fps@1080P, can capture 8M (3840*2160) pictures, 4K videos and do measurement, control with mouse. With 13.3 inch LCD screen, resolution 1920*1080.	○	○	○	○
C-mount Adapter	0.3X C-mount adapter	○	○	○	○
	0.5X C-mount adapter	●	●	●	●
	1.0X C-mount adapter	○	○	○	○
Auxiliary Lens	1.0X Auxiliary Objective	●	●	●	●
	0.3X Auxiliary Objective	○	○	○	○

	0.4X Auxiliary Objective	○	○	○	○
	0.5X Auxiliary Objective	○	○	○	○
	0.6X Auxiliary Objective	○	○	○	○
	0.75X Auxiliary Objective	○	○	○	○
	1.5X Auxiliary Objective	○	○	○	○
	2.0X Auxiliary Objective	○	○	○	○
Infinite LWD Plan Achromatic Metallurgical Objective (MA200A)	5X/ NA=0.12, WD=26.1mm	○	○	○	○
	10X/ NA=0.25, WD=20.2mm	○	○	○	○
	20X/ NA=0.4, WD=8.8mm	○	○	○	○
	40X/ NA=0.6, WD=3.98mm	○	○	○	○
	50X/ NA=0.7, WD=3.68mm	○	○	○	○
	60X/ NA=0.75, WD=1.22mm	○	○	○	○
	60X/ NA=0.75, WD=3.18mm	○	○	○	○
	80X/ NA=0.8, WD=1.25mm	○	○	○	○
100X/ NA=0.85, WD=0.4mm	○	○	○	○	
Infinite LWD Plan Apochromatic Objectives (LWD M APO200A)	2X/ NA=0.055, WD=34.6mm	○	○	○	○
	3.5X/ NA=0.1, WD=40.93mm	○	○	○	○
	5X/ NA=0.13, WD=44.5mm	○	○	○	○
	10X/ NA=0.28, WD=34mm	○	○	○	○
	20X/ NA=0.29, WD=31mm	○	○	○	○
50X/ NA=0.42, WD=20.1mm	○	○	○	○	
Infinite LWD Plan Apochromatic Objectives (LWD M APO200B)	2X/ NA=0.075, WD=50mm	○	○	○	○
	4X/ NA=0.15, WD=36mm	○	○	○	○
	4.5X/ NA=0.18, WD=38mm	○	○	○	○
	20X/ NA=0.35, WD=29mm	○	○	○	○
Coaxial light Device	Coaxial device, does not include light source	○	○	●	●
	Polarized coaxial device, does not include light source	○	○	○	○
Ring Light	BAL-80A LED Ring light, brightness adjustable	○	○	○	○
	BAL-52AP LED polarizing ring light, brightness adjustable	○	○	○	○
	BAL-52ASL LED side ring light, brightness adjustable	○	○	○	○
	BAL-228A Four-zone lighting control separately big area LED ring light	○	○	○	○
	BAL-228AG LED four-zone ring light with frosted glass	○	○	○	○
	BAL-16P LED polarizing ring light, brightness adjustable	○	○	○	○
BAL-52A LED Ring light, brightness adjustable	○	○	○	○	
Back Light	BTL-60A LED back light	○	○	○	○
Point Light	BPL-3A LED point light, 3W, brightness adjustable.	○	○	●	●
	BPL-3MC LED multi color point light, 3W, white, purple, blue, yellow, red, green and mixed light, brightness adjustable	○	○	○	○
	BPL-4A LED point light with numerically adjustable light adapter, 4W, brightness adjustable	○	○	○	○

Bar Light	BBL-5A bar LED illuminator, 60 LED, 12V/5W	○	○	○	○
Cold Light Source	BSL-3B LED light source with dual goose neck light guide, 6.5W	○	○	○	○
	BSL-15A-2 Cold LED light source with Dual Light Guide, 15W LED lamp	○	○	○	○
	BSL2-150A-2 Cold light source with Dual Light Guide, 21V/150W Halogen lamp	○	○	○	○
Stage	BMS-302 X-Y moving stage	○	○	○	○
	BMS-303 X-Y moving stage	○	○	○	○
	BMS-311 X-Y measuring stage	○	○	○	○
	BMS-316A X-Y measuring stage	○	○	○	○
	BMS-316B X-Y measuring stage	○	○	○	○
	BMS-400A large working stage	○	○	○	○
	BMS-260A XY working stage	○	○	○	○
Connecting Ring	Metallurgical objective adapter (used to connect metallurgical objectives onto the zoom body)	○	○	○	○
Nosepiece	3 holes nosepiece, 20.3mm thread	○	○	○	○
	4 holes nosepiece, 20.3mm thread	○	○	○	○
	4 holes nosepiece, 26mm thread	○	○	○	○
Stand and focus Arm	BA1 Round type column plain stand with coarse focus arm. Stroke: 50mm.	○	○	○	○
	BA2 Round type column plain stand with coarse focus arm, transmitted 12V/5W LED illumination, brightness adjustable. Stroke: 50mm.	○	○	○	○
	BA3 Round type column plain stand with coarse and fine focus arm. Stroke: 67mm, fine precision: 0.002mm.	○	○	○	○
	BA4 Round type column plain stand with coarse and fine focus arm, transmitted 12V/5W LED illumination, brightness adjustable. Stroke: 67mm, fine precision: 0.002mm.	○	○	○	○
	BA5 Square type column plain stand with coarse focus arm. Stroke: 150mm.	○	○	○	○
	BA6 Square type column plain stand with coarse focus arm, transmitted 12V/5W LED illumination, brightness adjustable. Stroke: 150mm.	○	○	○	○
	BA7 Square type column plain stand with coarse and fine focus arm. Stroke: 260mm, fine precision: 0.002mm.	○	○	○	○
	BA8 Square type column plain stand with coarse and fine focus arm, transmitted 12V/5W LED illumination, brightness adjustable. Stroke: 260mm, fine precision: 0.002mm.	○	○	○	○
	BA9 multi-angle column plain stand with coarse focus	○	○	○	○

arm. Stroke: 60mm.				
BA10 multi-angle column plain stand with coarse and fine focus arm. Stroke: 60mm, fine precision: 0.002mm.	○	○	○	○
BA11 universal boom stand with coarse focus arm. Column height: 320mm, horizontal column length: 340mm, Φ32mm, 360° rotatable. Base size: 330mm*300mm. Stroke: 50mm.	○	○	○	○
BA12 universal boom stand with coarse and fine focus arm. Column height: 320mm, horizontal column length: 340mm, Φ32mm, 360° rotatable. Base size: 330mm*300mm. Stroke: 65mm, fine precision: 0.002mm.	○	○	○	○
BA13 Round type column large plain stand with coarse focus arm. Column height: 320mm, Φ25mm, stroke: 50mm, base size: 380mm*260mm. Gross weight: 1.5kg.	●	●	●	●
BFA-1 coarse focus arm. Stroke: 50mm.	○	○	○	○
BFA-2 coarse and fine focus arm. Stroke: 65mm, fine precision: 0.002mm.	○	○	○	○
BFA-3 multi-angle coarse focus arm, angle adjustable. Stroke: 50mm.	○	○	○	○
BFA-4 multi-angle coarse and fine focus arm, angle adjustable. Stroke: 60mm, fine precision: 0.002mm.	○	○	○	○
BFA-5 electric coarse and fine focus arm, supporting manual focusing and electric focusing. It has 5 preset positions, paired with 5 different magnification objectives. Stroke: 65mm, fine precision: 0.005mm.	○	○	○	○
BFA-6 N interface coarse focus arm. Stroke: 50mm.	○	○	○	○
BFA-7 N interface coarse and fine focus arm. Stroke: 65mm, fine precision: 0.002mm.	○	○	○	○

Note: ●Standard Outfit, ○Optional

## Accessories



C-mount adapter



Auxiliary objectives



Coaxial device



Polarized coaxial device



3 holes nosepiece



4 holes nosepiece(20.3mm thread)



4 holes nosepiece(26mm thread)



Objective angle device 90°(inverted image)



Objective angle device 90°(erect image)



Monocular tube eyepiece



two output C-mount



BS-1055A/B with 1.0X C-mount adapter and coaxial device



BS-1055C/D with 1.0X C-mount adapter

## 2. BS-1055LCD1 All-in-One Video Microscope



BS-1055LCD1

### Introduction

BS-1055LCD1 All-in-One Video Microscope adapts unique all-in-one design, simple and convenient to install and use. No need to install software, connected to HDMI monitor directly. BS-1055LCD1 provides high-definition images. This microscope is designed for the applications in the fields of machine vision, industrial inspection and scientific research. Modularization product portfolio and excellent optical performance make them a better choice in these areas.

### Features

#### 1. Zoom ratio

Zoom ratio 1:7.1, zoom range 0.7X-5X, standard working distance 86mm, can meet the requirement of machine vision conventional imaging.

#### 2. All-in-one design

Unique all-in-one machine design, simple and convenient to install and use. No need to install software, connected HDMI monitor directly. 11.6-inch 1080P LCD monitor with arm stand, angle adjustable.

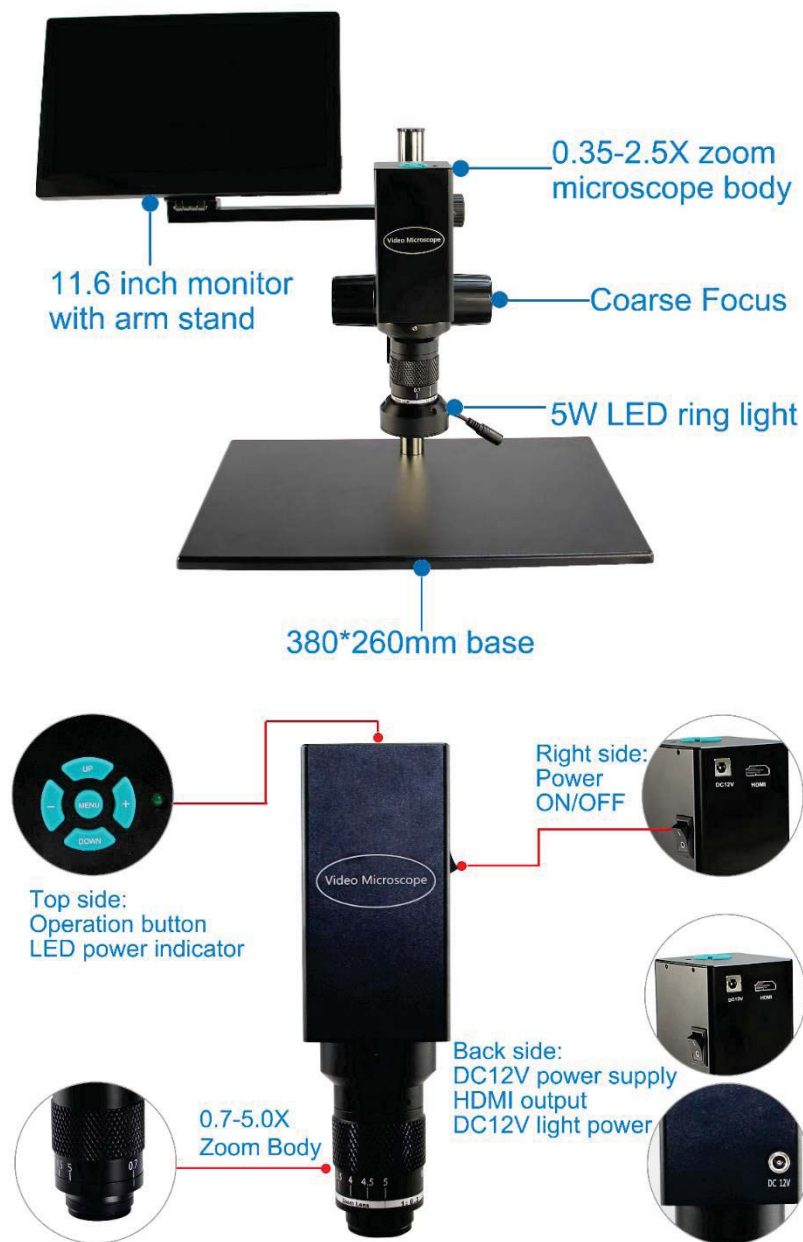
### 3. Excellent Imaging

BS-1055LCD1 adopts zoom optical system, high definition and excellent focus alignment. 1920\*1080 full HDMI image output with excellent color reduction. Equipped with 5W LED ring light, 0-100% brightness adjustable.

### Application

BS-1055LCD1 All-in-One Video Microscope is widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board inspection area and so on. Widely used in electric equipment, semi-conductor, LCD and LED, for digital image observation, inspection and measurement.

### Product Details



## Operation buttons



- Menu: Open Menu/Confirm
- UP: Up button
- Down: Down button
- +: Add button
- : Reduce button

## Basic functions

Auto White balance

Auto exposure

	P	AE	WB
Contrast	☉		11
Saturability	S		49
Red gain	R		41
Green gain	G		20
Blue gain	B		52
Brightness	☀		10
Wide dynamic	HDR	★ ★ ★ ★ ★	1
Crosshair/grid lines		+ #	
Setting the lines	#	1	■ ↕
Sharpness			SE 3

## Specification

Item	Specification	BS-1055LCD1
Zoom Lens	0.7X-5.0X zoom lens with 0.5X C-mount	•
Zoom ratio	1:7.1	•
Mounting Size	Φ50mm	•
Built-in Camera	1/2" SONY CMOS with HDMI output, 2.0 mega-pixels, resolution: 1920*1080, pixel size: 3.75μm*3.75μm.	•

Monitor	11.6-inch LCD with arm stand, NTSC/PAL compatible, resolution: 1920*1080, brightness: 400cd	●
Auxiliary Lens	1.0X Auxiliary Objective	●
	0.3X Auxiliary Objective	○
	0.4X Auxiliary Objective	○
	0.5X Auxiliary Objective	○
	0.6X Auxiliary Objective	○
	0.75X Auxiliary Objective	○
	1.5X Auxiliary Objective	○
Coaxial light Device	Coaxial device, does not include light source	○
	Polarized coaxial device, does not include light source	○
Ring Light	BAL-80A LED Ring light, brightness adjustable	●
	BAL-52AP LED polarizing ring light, brightness adjustable	○
	BAL-52ASL LED side ring light, brightness adjustable	○
	BAL-228A Four-zone lighting control separately big area LED ring light	○
	BAL-228AG LED four-zone ring light with frosted glass	○
	BAL-16P LED polarizing ring light, brightness adjustable	○
BAL-52A LED Ring light, brightness adjustable	○	
Back Light	BTL-60A LED back light	○
Point Light	BPL-3A LED point light, 3W, brightness adjustable.	○
	BPL-3MC LED multi color point light, 3W, white, purple, blue, yellow, red, green and mixed light, brightness adjustable	○
	BPL-4A LED point light with numerically adjustable light adapter, 4W, brightness adjustable	○
Bar Light	BBL-5A bar LED illuminator, 60 LED, 12V/5W	○
Cold Light Source	BSL-3B LED light source with dual goose neck light guide, 6.5W	○
	BSL-15A-2 Cold LED light source with Dual Light Guide, 15W LED lamp	○
	BSL2-150A-2 Cold light source with Dual Light Guide, 21V/150W Halogen lamp	○
Stage	BMS-302 X-Y moving stage	○
	BMS-303 X-Y moving stage	○
	BMS-311 X-Y measuring stage	○
	BMS-316A X-Y measuring stage	○
	BMS-316B X-Y measuring stage	○
	BMS-400A large working stage	○
BMS-260A XY working stage	○	
Stand and focus Arm	BA1 Round type column plain stand with coarse focus arm. Stroke: 50mm.	○
	BA2 Round type column plain stand with coarse focus arm, transmitted 12V/5W LED illumination, brightness adjustable. Stroke: 50mm.	○
	BA3 Round type column plain stand with coarse and fine focus arm. Stroke: 67mm, fine precision: 0.002mm.	○
	BA4 Round type column plain stand with coarse and fine focus arm, transmitted 12V/5W LED illumination, brightness adjustable. Stroke: 67mm, fine precision: 0.002mm.	○
	BA5 Square type column plain stand with coarse focus arm. Stroke: 150mm.	○

BA6 Square type column plain stand with coarse focus arm, transmitted 12V/5W LED illumination, brightness adjustable. Stroke: 150mm.	○
BA7 Square type column plain stand with coarse and fine focus arm. Stroke: 260mm, fine precision: 0.002mm.	○
BA8 Square type column plain stand with coarse and fine focus arm, transmitted 12V/5W LED illumination, brightness adjustable. Stroke: 260mm, fine precision: 0.002mm.	○
BA9 multi-angle column plain stand with coarse focus arm. Stroke: 60mm.	○
BA10 multi-angle column plain stand with coarse and fine focus arm. Stroke: 60mm, fine precision: 0.002mm.	○
BA11 universal boom stand with coarse focus arm. Column height: 320mm, horizontal column length: 340mm, Φ32mm, 360° rotatable. Base size: 330mm*300mm. Stroke: 50mm.	○
BA12 universal boom stand with coarse and fine focus arm. Column height: 320mm, horizontal column length: 340mm, Φ32mm, 360° rotatable. Base size: 330mm*300mm. Stroke: 65mm, fine precision: 0.002mm.	○
BA13 Round type column large plain stand with coarse focus arm. Column height: 320mm, Φ25mm, stroke: 50mm, base size: 380mm*260mm. Gross weight: 1.5kg.	●
BFA-1 coarse focus arm. Stroke: 50mm.	○
BFA-2 coarse and fine focus arm. Stroke: 65mm, fine precision: 0.002mm.	○
BFA-3 multi-angle coarse focus arm, angle adjustable. Stroke: 50mm.	○
BFA-4 multi-angle coarse and fine focus arm, angle adjustable. Stroke: 60mm, fine precision: 0.002mm.	○
BFA-5 electric coarse and fine focus arm, supporting manual focusing and electric focusing. It has 5 preset positions, paired with 5 different magnification objectives. Stroke: 65mm, fine precision: 0.005mm.	○
BFA-6 N interface coarse focus arm. Stroke: 50mm.	○
BFA-7 N interface coarse and fine focus arm. Stroke: 65mm, fine precision: 0.002mm.	○

Note: ●Standard Outfit, ○Optional

## Accessories



Auxiliary objectives



Coaxial device



Polarized coaxial device