

**BS-1082 4K Monocular Zoom Microscope**

BS-1082

**Introduction**

BS-1082 4K Monocular Zoom Microscope adopt apochromatic high quality optical system and provide high resolution and sharp stereoscopic images. This microscope is designed for the applications in the fields of machine vision, industrial inspection and scientific research.

**Features****1. High quality optical system**

High quality optical system, better effect image with 4K camera.

**2. Durable and sturdy**

Adopt high hardness wear-resisting material, long use life.

**3. Zoom ratio**

0.3-2.5X zoom magnification, 8.3:1 big ratio. Different magnification auxiliary objective for optional: 0.3X, 0.4X, 0.5X, 0.6X, 1.5X, 2X. To meet different multiplier requirements.

## Application

BS-1082 series Monocular Zoom 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-1082
Optical System	High quality optical system	●
Zoom Lens	Optical zoom magnification: 0.3-2.5X	●
Zoom ratio	1:8.3	●
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.	○
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	○
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, $\Phi$ 32mm, 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, $\Phi$ 32mm, 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, $\Phi$ 25mm, 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

## Optical Parameter

<b>Model</b>	<b>BS-1082</b>
<b>Magnification</b>	0.3-2.5X
<b>Working distance</b>	86mm
<b>FOV</b>	25.6x14.4-3.07x1.72mm (Base on 7.68x4.32mm sensor 4K camera)
<b>NA</b>	0.021-0.090mm
<b>Resolution</b>	0.004-0.016mm
<b>Depth of field</b>	0.018-6.24mm
<b>Mount</b>	Standard C mount
<b>Install diameter</b>	50mm

## Accessories



Auxiliary objectives