BS-1080M Motorized Zoom Measuring Video Microscope



BS-1080ML-BA4

Introduction

BS-1080M series motorized zoom measuring video microscope has motorized control of zoom magnification. These series microscopes have free calibration feature, the magnification can be shown on the screen. Working with different CCD adapters, auxiliary objectives, stands, illumination and 3D attachment, these series motorized zoom measuring video microscopes can meet most of the requirements in SMT, electronics and semiconductor areas.

Feature

1. 0.6-5.0X automatic electric zoom, smart cruise setting.

2. High precision optical system design, continuous cruise the center keep same, repeat precision can reach 0.001µm.

3. High precision electronic feedback system, No need PC. No need installing software, connect HDMI monitor directly.

4. Real time display the optical magnification and image magnification. User don't need calibrate again, measuring directly.

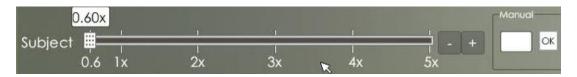
5. Modular design, various magnification CCD mount and auxiliary objective optionally, and supply different function modules, such as coaxial device, polarized coaxial device, fine focus objective device, DIC element etc.

6. Built-in smart measuring software. One click save high-definition images and measurement data, mouse operate directly, easy and convenient.

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- 7. High hardness aluminum alloy material, anodic oxidation treatment, more durable in use.
- 8. Widely used in industrial inspection, SMT, circuit board, semiconductor, biomedical and scientific research ,etc.

Main Function

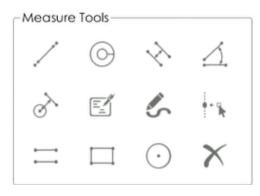


- Doubing Show				
Optics:	0.60x	Ş		
Imaging :	43.24x			

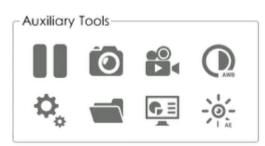
Real time display optical magnification and imaging magnification

Pre	eset pos	ition []	•		
	Set	Call	Del	Orig	in
Sc	anning	Resi	dence l	ime	

Built-in high precision electronic feedback system, Smart cruise scanning setting



Measuring function: Support point, line distance, parallel lines, circle, arc, rectangle, polygon etc.



Automatic white balance, auto exposure, auto edge improve measuring precision. Take photo and vide to U disk. Preview image online.

Optical Parameter

Model	BS-1080M	
Lens	Optical Magnification	0.6-5.0X
	Zoom method	Auto zoom
	FOV	12x6.75-1.44x0.81mm
	Total Magnification	28-240X(based on 15.6 inch monitor)
	Working Distance	86mm
Camera	Resolution	1920*1080
	Frame	60fps
	Sensor	1/2"
	Pixel Size	3.75x3.75µm
	Output	High resolution HDMI output
	Light Source	LED Ring Light with 4 Zones Control
	Measuring function	Support measuring of point, line, parallel lines, circle, arc, angle, rectangle, polygon etc.
	Save function	Take photo and video to U disk
Stand	Base size	330*300mm
	Height of post	318mm
	Focus	Coarse focus
Light	Ring light	12V 13W all in one LED ring light with 4 zones control 228PCS LED quantity
	Transmitted light	12V 5W transmitted light

Magnification	Working distance	FOV	Depth of Field	NA	Resolution
0.6X	85.6mm	12x6.75mm	3.12mm	0.021mm	0.016mm
0.8X	85.6mm	9x5.06mm	2.04mm	0.025mm	0.014mm
1.0X	85.6mm	7.2x4.05mm	1.21mm	0.033mm	0.010mm
2.0X	85.6mm	3.6x2.03mm	0.38mm	0.053mm	0.006mm
3.0X	85.6mm	2.4x1.35mm	0.20mm	0.067mm	0.005mm
4.0X	85.6mm	1.8x1.01mm	0.13mm	0.079mm	0.004mm
5.0X	85.6mm	1.5x0.81mm	0.09mm	0.090mm	0.004mm



Product Pictures



BS-1080ML-BA1L





BS-1080M Main body

BS-1080MC Main body(With coaxial device)

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BS-1080ML-BA2

BS-1080ML-BA2L

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BS-1080ML-BA3

BS-1080ML-BA4



BS-1080ML-BA9



BS-1080ML-BA9L



Digital Camera Diagram



Optional Accessories



Model	Name	Specification
CCD adapter		
BM108021	0.3X CCD mount	Standard C-mount
BM108022	0.45XCCD mount	Standard C-mount
BM108023	0.5X CCD mount	Standard C-mount
BM108024	0.67XCCD mount	Standard C-mount
BM108025	0.75X CCD mount	Standard C-mount
BM108026	1X CCD mount	Standard C-mount
BM108027	1.5X CCD mount	Standard C-mount
BM108028	2X CCD mount	Standard C-mount
BM108029	3X CCD mount	Standard C-mount
Auxiliary object	tive	
BM108030	0.3X Auxiliary objective	Use with 1X objective, working distance 270mm
BM108031	0.4X Auxiliary objective	Use with 1X objective, working distance 195mm
BM108032	0.5X Auxiliary objective	Use with 1X objective, working distance 160mm
BM108033	0.6X Auxiliary objective	Use with 1X objective, working distance 130mm
BM108034	0.75X Auxiliary objective	Use with 1X objective, working distance 105mm
BM108035	1.5X Auxiliary objective	Use with 1X objective, working distance 50mm
BM108036	2.0X Auxiliary objective	Use with 1X objective, working distance 39mm
BM108047	Coaxial device	Use with φ11mm LED point light
BM108048	Polarized coaxial device	Use with φ11mm LED point light
BM108049	11mm LED point light	3W, brightness adjustment, used for LC6511 and LC6511P
BM108050	11mm LED point light with Program controlled	3W, brightness adjustment, used for LC6511 and LC6511P
Infinity Plan Ad	chromatic Objective	
BM108037	Infinity Plan Achromatic Objective	Mag. 5X; Numerical Aperture:0.12; W.D. 26.1mm
BM108038	Infinity Plan Achromatic Objective	Mag. 10X; Numerical Aperture:0.25; W.D. 20.2mm
BM108039	Infinity Plan Achromatic Objective	Mag. 20X; Numerical Aperture:0.40; W.D. 8.8mm
BM108040	Infinity Plan Achromatic Objective	Mag. 40X; Numerical Aperture:0.60; W.D. 3.98mm
BM108041	Infinity Plan Achromatic Objective	Mag. 50X; Numerical Aperture:0.7; W.D. 3.68mm
BM108042	Infinity Plan Achromatic Objective	Mag. 60X; Numerical Aperture:0.75; W.D. 1.22mm

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BM108043	Infinity Plan Achromatic	Mag.60X; Numerical Aperture:0.7; W.D. 3.18mm	
	Objective		
BM108044	Infinity Plan Achromatic	Mag.80X; Numerical Aperture:0.8; W.D. 1.25mm	
	Objective		
BM108045	Infinity Plan Achromatic	Mag.100X; Numerical Aperture:0.85; W.D. 0.4mm	
BIVI108045	Objective		
95mm M Plan Apo Objective			
BM108046	95mm M Plan Apo Objective	Mag.: 2X; N.A.: 0.055; W.D: 34.6mm	
BM108047	95mm M Plan Apo Objective	Mag.: 3.5X; N.A.: 0.1; W.D: 40.93mm;	
BM108048	95mm M Plan Apo Objective	Mag.: 5X; N.A.: 0.13; W.D: 44.5mm	
BM108049	95mm M Plan Apo Objective	Mag.: 10X; N.A.: 0.28; W.D: 34mm	
BM108050	95mm M Plan Apo Objective	Mag.: 20X; N.A.: 0.29; W.D: 31mm	
BM108051	95mm M Plan Apo Objective	Mag.: 50X; N.A.: 0.42; W.D: 20.1mm	