OPTICAL MICROSCOPE

- > METROLOGY Optical Microscopes come with new innovative design in structural quality, functionality, and accuracy, a total upgrade to satisfy your upmost demand.
- High resolution, sharp image, wide-view eyepiece with adjustable focus. Easy to observe, and operate.
- Multiple modules configuration, can be configured with varies accessories for special requirements, such as data transfer, file editing, geometric element measuring.
- Image data can be imported to computer for saving file, editing, transfer, and calculations.
 End result can be printed.



- Applications: Inspection & Analysis Zoology, Phytology, Entomology, Histology, Mineralogy, Archaeology, Geology, Biochemistry, Biology, Agriculture, Forestry, Medical service, Hospital, School education, Eyeglass, Textile, Chemical, Jewelry, Electronics, Metal & non-metal, Industry product, Authenticating documents, Currencies, Jewelries and etc.
- Assembling & Measuring IC electronic, Lead frame, Semiconductor, PC board, Film, Screen printing, Wire-cut EDM, Rubber, Plastic, Precise mold, Dies, Press, Spring, Screw, Tool, Valve, Camera, Bicycle, Motor.

Eyepiece



Model No.	Description
OP-EL10S	10X Small type
OP -EL10L	10X Large type
OP -EL10G1	10X Cross line
OP -EL10G2	10X Cross line with 10mm scale
OP -EL10G3	10X Cross line with angle & radius scale
OP -EL15	15X
OP -EL15 (HM)	15X (for HM only)
OP -EL20	20X

Small vise



Model No.	Description
OP-VS	Clamp length: max.18mm

■ V-clamp



Model No.	Description
OP-VC	Clamp dia. : max.Φ18mm

Objective lens



Model No.	Description
OP-OL0.3	0.3X (For FM/ZM/M/L)
OP-OL0.5	0.5X (For FM/ZM/M/L)
OP-OL0.6	0.6X (For X/S)
OP-OL1.5	1.5X (For FM/ZM/M/L)
OP-OL2.0	2.0X (For FM/ZM/M/L)



Model No.	Description
OP-CCDH	1/3" High resolution color CCD Pixels: 811(H)*508(V) 0.41M
OP-CCDS	1/3" Super high resolution color CCD Pixels: 1280(H)*1024(V) 1.3M

■ Image capture units



Model No.	Description
OP-IC	With cable & software



XY axis-measuring table



Model. No	Measuring Range
OP-XY22	50*50mm

*With rotary table 360°

Micrometer head



Model No.	Description
OP-MH25	25*25 / 0.01mm
OP-MH50	50*50 / 0.01mm
OP-30F	25*25 / 0.001mm / 0.00005"
OP-31F	50*50 / 0.001mm / 0.00005"

Cross-line generator



Model No.	Description
OP-CG2	Multi-line style & color,
	auto-edge.

X-Y stage



Model No.	Description
OP-STAGE1	75*50mm Flat plate
OP-STAGE2	75*50mm Light unit
OP-STAGE3	300*250mm Flat plate
OP-STAGE4	300*250mm Light unit

*With XY coaxial adjustment knob

Rotary table



Model No.	Description
OP-RT4	Ф100mm
OP-RT6	Φ150mm
OP-RT8	Ф200mm
OP-RT10	Ф250mm
OP-RT12	Ф300mm

*With base plate



Lamp



Model No.	Description
OP-5WBF	5W Fluorescent bulb (Base)
OP-8WCF	5W Fluorescent bulb (Circular)
OP-15WBT	15W Tungsten bulb (Base)
OP-15WTC	15W Tungsten bulb (Cup)

Illuminators







OP-8W

OP-150WD

OP-LEDDS



Model No.

OP-LEDB

OP-LEDDS





OP-8W	8W Circular fluorescent light			
OP-150WD	150W Double optical fiber			
OP-150WC	150W Circular optical fiber			
OP-LED	LED circular light			
OP-LED4	Four -zone LED circular light			
OP-LEDGF	EDGF LED ground glass filter (for OP-LED only)			

Description

2"x2" LED back light

24V DC4W LED dual spot light



Standard glass scale

- High quality optical glass
- Laser calibration/system uncertainty : $(0.2+1.5/1000*L)\mu m$
- Glass expansion co-effcients: $7.2*10^{-6}$ (-60°C~+20°C) $7.6*10^{-6}$ (20°C~120°C)





Model No.	Range	Graduation	Accuracy	Size (LxWxT)
OP-SS4	100mm	0.5mm or 1mm	±1.7um	130x36x5mm
OP-SS6	150mm		±1.8um	180x36x5mm
OP-SS8	200mm		±1.9um	230 x36x5mm
OP-SS10	250mm		±2.0um	280 x36x5mm
OP-SS12	300mm		±2.1um	330 x36x5mm
OP-SS16	400mm		±2.3um	430 x36x5mm
OP-SS20	500mm		±2.5um	530 x36x5mm

	Model No.	Range	Graduation	Accuracy	Size (LxWxT)
	OP-SS24	600mm		±2.7um	630 x36x5mm
	OP-SS28	700mm		±2.9um	730 x36x5mm
	OP-SS32	800mm	1mm	±3.1um	830 x36x5mm
]	OP-SS36	900mm		±3.3um	930 x36x5mm
	OP-SS40	1000mm		±3.5um	1030 x36x5mm

Reading glass scale

Specially designed with a standard scale to calibrate the lens magnification accuracy of optical projector

Model No.	Range	Graduation	Accuracy	Size (LxWxT)
OP-RS310	310mm		±20um	340x28x4.5
OP-RS360	360mm	0.5mm		390x28x4.5
OP-RS410	410mm			440x28x4.5

Standard glass checker



Model No.	Range	Graduation	Accuracy	Size (LxWxT)
OP-CP814	X: 140mm/6" Y: 80mm/3"	1mm	4um	170x100x5mm

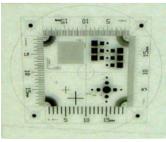
0.01mm

0.01mm

Graduation

0.05mm & 0.1mm

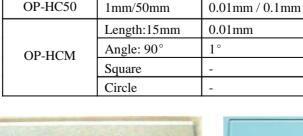
High magnification calibration glass scale







1mm/100/0.01mm



Range

1mm 1mm

10mm

OP-HC10

Model No.

OP-HC1

OP-HC10



Size (LxWxT)

75x25x1.8mm

42x42x1.8mm

OP-HC50



Linear scale





Model No.	Range (mm)	Model No.	Range (mm)	Model No.	Range (mm)
OP-LS50	50	OP-LS300	300	OP-LS800	800
OP-LS100	100	OP-LS400	400	OP-LS900	900
OP-LS150	150	OP-LS500	500	OP-LS1000	1000
OP-LS200	200	OP-LS600	600	OP-LS1500	1500
OP-LS250	250	OP-LS700	700	OP-LS2000	2000

^{*}Resolution: 0.005mm \ 0.001mm \ 0.0005mm \ 0.0001mm by requirement

2D Microprocessor digital readout



OP-ES2 Simple X-Y axis digital display **OP-ES3** Simple X-Y-Z axis digital display



OP-ES92 X-Y axis 2D geometric measuring function



OP-ES93 X-Y-Z axis 2D geometric measuring function



OP-ES15 X-Y axis 2D geometric measuring function (for projectors)















Circle

Line

Point

Distance

Angle

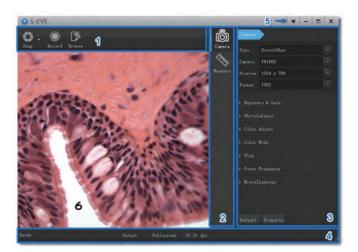
Intersection Perpendicular Print

OPTICAL MICROSCOPE

■ HDMI Measuring Camera



OP-HMC309M



Software Interface:

- 2. Camera and measurement 1. Toolbar
- 3. Control panel 4. Status bar
- 5. Main menu 6. Image window

Camera Application:

Scientific research, education teaching \(\) demonstration \(\) academic exchanges, digital laboratory, medical research, Industrial visual, PCB examination, IC quality control, medical treatment, pathological observation, food microbial colony observation and counting, Aerospace, military high sophisticated weapons

Camera Features:

SONY imx335 sensor, Sensor size:1/2.8", Pixel size: 2um*2um Video resolution: 1080p (1920x1080) Photo resolution: 5Mp (2560x1920) Max preview & recording frame rate: 60fps Mouse control, Real time measurement Support USB drive storage and external SD card storage HDMI output Picture and video can be replay on the monitor without computer Power in: DC-12V/1A Dimensions: 50*50*58mm Net weight: 0.3kg

Camera function:

Exposure, Gain, Contrast, Saturation, Brightness, Sharpness, White balance, Color temperature adjustable, Zoom in & out, Image flip, Mono image, Freeze, Gridlines, Image comparison, Strong measuring functions

Measuring software function:













Line

Break line



Polygon

Circle

Two Points circle















Three points circle

Arc

Angel Perpendicular Delete

Delete all

Export