



# MICROSCOPIC CAMERA LUMC-B1 SERIES

## Microscopic camera LUMC-B10

Microscopic camera LUMC-B10 is adopted with digital image CMOS sensor Sony IMX253, used to improve low light performance and obtain high resolution images. Its image analysis software includes image previewing, capturing, analyzing, processing and sharing to give user the latest image processing experience.

### Features

- 12 MP with USB 3.0 specification
- CMOS sensor, Sony IMX253 type
- C-mount fitting attachment
- Aluminum alloy shell with PCB components design
- 40 frames per second for smooth live images
- Manual or automatic white area balance
- Progressive scanning mode
- Image analysis software with modular design

### Applications

Used for microscopic imaging, visual inspection, and measurement of test specimen across life science, gemology, archeology, forensic science and other industries.

## Specifications

Model no.	LUMC-B10
Sensor type	CMOS sensor, Sony IMX253
Camera Type	Black & white or colored camera
Sensor size	1"
Resolution	12 MP
Pixel size	3.1×3.1 μm
Total active pixels	4090×3072
Frame rate	40 fps at 4090×3072
Scan method	Progressive scan mode
Exposure time	10 μs to 600 minutes
Exposure control	Manual/Auto/Area Exposure
Shutter	ESR & global reset
Dynamic range	66 dB
SNR	24 dB
Spectral response range	350 to 1100 nm
Data interface	USB 3.0, up to 56 kbps, 1.8 meter cable
Power	DC 12V ± 5%
Current	Appx. 500 mA
White balance	Manual/Auto/Area white balance
Product indicator	Power LED , RS 485 communication light
Mount	C- mount
Working temperature	0 to 60 °C
Working Humidity	0 to 85 % RH
Product Dimension	29×29×60 mm
Gross Weight	700 g

### Standard Accessories

Accessories No.	Name
1	1.8 meters USB 3.0 cable
2	Drive & application CD

### Optional Accessories

Accessories No.	Name
1	PCI-E USB3.0 card
2	USB3.0- Optical fiber
3	USB3.0- Converter cable

## Microscopic camera LUMC-B11, LUMC-B12

Microscopic camera LUMC-B11 and LUMC-B12 adopted with digital CMOS Sony IMX sensor, are used to improve low light performance & obtain high resolution images. Its image analysis software includes image previewing, capturing, analysis, processing, sharing function, to give user the latest image processing experience.

### Features

- 2.3 MP/ 3.0 MP with USB 3.0 specification
- CMOS Sony IMX(185/123) sensor type
- C-mount fitting attachment
- Aluminum alloy shell with PCB design
- 20/30 frames per second for smooth live images
- Manual or automatic white area balance
- Progressive scanning mode
- Image analysis software with modular design

### Applications

Used for microscopic imaging, visual inspection, and measurement of test specimen across life science, gemology, archeology, forensic science and other industries.

## Specifications

Model no.	LUMC-B11	LUMC-B12
Sensor type	CMOS Sony IMX185 sensor	CMOS Sony IMX123 sensor
Sensor size	1/1.9"	1/ 2.8"
Camera type	Colored camera	
Resolution	2.3 MP	3 MP
Pixel size	3.75×3.75 μm	
Total active pixels	1952×3072	2048×1536
Frame rate	30 fps at 1952×3072 (12 bit)	20 fps at 2048×1536 (12 bit)
Scan method	Progressive scan mode	
Exposure time	28 μs to 1.8 s	
Exposure control	Manual/Auto/Area Exposure	
Shutter	ESR & global reset	Rolling Shutter
Dynamic range	64 dB	
SNR	41 dB	
Spectral response range	400 to 1000 nm	
Data interface	USB 3.0, up to 5 Gbps, 3 m cable	
Power	DC 5V ± 5%	
Current	Appx. 500 mA	Appx. 250 mA
White balance	Manual/Auto/Area white balance	
Product indicator	Power LED, RS 485 communication light	
Less mount	CS interface mount	
Working temperature	0 to 60 °C	
Working Humidity	0 to 85 % RH	
Product Dimension	29×29×60 mm	60×60×45 mm
Gross Weight	450 g	

### Standard Accessories

Accessories No.	Name
1	1.8 meters USB 3.0 cable
2	Drive & application CD

### Optional Accessories

Accessories No.	Name
1	PCI-E USB3.0 card
2	USB3.0- Optical fiber
3	USB3.0- Converter cable