

labodam

MICROSCOPIC CAMERA

LUMC-A1 SERIES



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Microscopic Camera LUMC-AI Series

Microscopic Camera LUMC-AI series comes with 2/3" CCD Sony ICX285 sensor, aluminum alloy shell and PCB design. With C-mount fitting attachment, better rate of frames readout per second, it gives better visual microscopic inspection & measurement of the specimen under study. Widely used as microscopic camera attachment across research institutes, gemology, forensic and other industries.

Features

- 1.4 MP/5.0 MP with USB 3.0 specification
- 2/3" CCD Sony ICX285 sensor type
- 400 to 1000 nm spectral response range
- Progressive scanning mode
- Automatic regional white balance
- Suitable frames per second for smooth live images

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-A10	LUMC-A11	LUMC-A12
Sensor type	CCD Sony ICX285 sensor		
Camera type	Black and white or color, Cool (to be fit for low temperature) camera	Black and white or color camera	
Sensor size		2/3"	
Resolution	1.4 MP	1.4 MP	5.0 MP
Pixel size	6.45×6.45 μm		3.45×3.45 μm
Total active pixels	1360×1040		2456×2058 (12 bit)
Frame rate, display mode	26 fps at 1360×1040, ROI mode	20 fps at 1360×1040	9 fps at 2456×2058, ROI mode
Peltier device	No		
Scan mode	Progressive scan mode		
Frame rate	26 fps @1360×1040, 40 fps @680×520		9 fps @2456×2058
Integrated filter	Yes		
Shutter	Global shut		
SNR	74 dB		
Spectral response range	400 to 1000 nm		
Refrigeration temperature	-40 °C	Nil	Nil
Data interface	USB 3.0		
Power	DC 12V ± 5%, cooler	DC 5V ± 5%	
Current	Appx. 300 mA, 4A (cooler)	Appx. 400 mA	Appx 500 mA
White balance	Automatic regional white balance		
Auto exposure control	100 μs to 30 minutes	36 μs to 30 minutes	28 μs to 1.8 seconds
Product indicator	LED		
Working temperature	0 to 60 °C	0 to 40 °C	0 to 60 °C
Working Humidity	45 to 85% RH	10 to 60 % RH	0 to 85% RH
Lens mount	C-mount		
Supported OS system	Microsoft windows XP/ Vista 7/ 8		
Dimension	190 × 150 × 90 mm		
Gross weight	450 g		