16 Megapixel Scientific CMOS Microscope Camera

MDY1603

Description

MDY1603 is a 16 megapixel USB 3.0 microscope camera equipped with 1/2.3 inch Sony CMOS sensor IMX206. Thanks to 64 Mb built-in buffer memory, the camera can stably run at 12 frames per second at full resolution. Featuring with low noise, excellent color reproduction, high frame rate, its excellent performance makes it perfect for the applications such as microscopy, medical engineering, quality assurance and material analysis which require high resolution and high speed imaging.

It is recommended for 4K (Ultra High Definition) applications.

Rhythm
MDY1603

4K
ULTRA HD
Support 4K Output

USB 3.0

Features

- 1/2.3 inch rolling shutter sensor with 1.34 μm pixel size
- Super high speed USB 3.0 for both data and power
- Full resolution (16 MP) with up to 12 fps
- iWorks EX software
- Support 4K (ultra high definition) output
- Twain and DirectShow driver compatible
- Dust-proof structure and aluminum alloy body design
- Compatible with Windows 7, Windows 8, & Windows 10

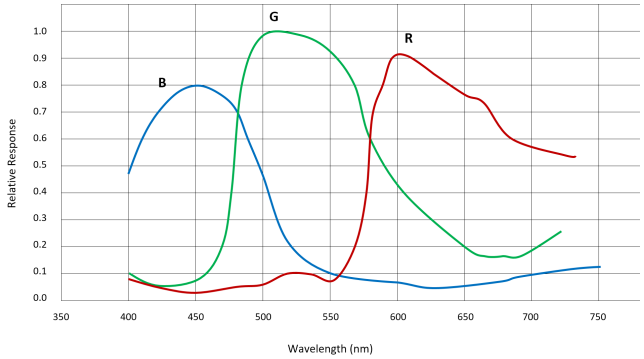
Applications

- Bright field
- Histology
- Pathology
- Cytology
- Defect Analysis
- Metrology
- Life science
- Material science
- Semiconductor Inspection
- 4K output

Specifications

Model	MDY1603
Sensor Type	1/2.3" Sony CMOS
Resolution	4608H x 3456V (16MP)
Pixel Size	1.34 μm x 1.34 μ m
Frame Rate	12 fps (4608 x 3456)
Filter	650nm IR Cut-off Filter
Optical Mount	C Mount
Shutter Type	Rolling
Exposure Time	23 μs ~10s
Exposure Control	Auto/ Manual / Regional Exposure
White Balance	Auto/ Manual / Regional
Spectral Response	400~650nm (with IR cut-off filter)
Operation System	Windows XP, 7, 8, 10
Software Interface	TWAIN, DirectShow
Data Interface	USB 3.0
Power Consumption	<3W, Standby: 1.5W
Power Supply	USB 5.0V
Working Temp.	0~50°C
Storage Temp.	-20~60°C
Dimension	90.3mm x 90.3mm x 31mm
Weight	500g

Quantum Efficiency



Dimensions (mm)