

20 Megapixel Scientific CMOS Microscope Camera

MDY2003

Description

MDY2003 is a scientific grade microscope camera equipped with high performance and super high resolution 20 megapixel CMOS sensor. Thanks to its 1 inch sensor we can get the largest field of view. The USB 3.0 interface and 64 Mb buffer memory ensure the camera can stably run at a high frame rate (10fps at 20MP). Featuring with low noise, excellent color reproduction, high frame rate and high sensitivity, its imaging quality can be comparable to that of digital SLR camera. The anodizing aluminum housing is effective for anti-static. MDY2003 is a good choice for various applications in life science and industrial inspections especially for high resolution and high definition.

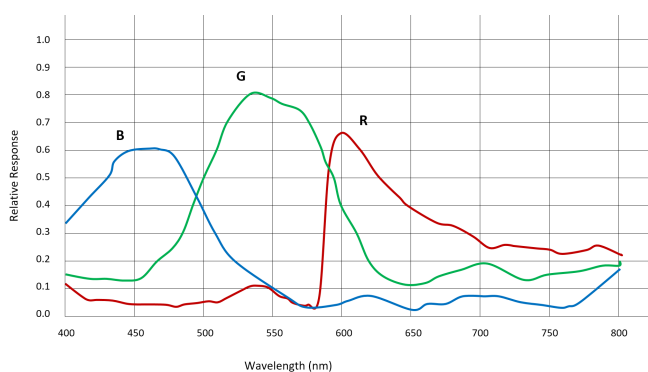
Features

- 1 inch rolling shutter sensor with 2.4 μm pixel size
- Super high speed USB 3.0 for both data and power
- Full resolution (20 MP) with up to 10 fps
- iWorks EX software
- 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

Quantum Efficiency



Specifications

Model	MDY2003
Sensor Type	1" Sony CMOS
Resolution	5472H x 3678V (20MP)
Pixel Size	2.4 μm x 2.4 μm
Frame Rate	22 fps (5472 x 3678)
Filter	650nm IR Cut-off Filter
Optical Mount	C Mount
Shutter Type	Rolling
Exposure Time	38 μs ~60s
Exposure Control	Auto/ Manual/ Regional Exposure
White Balance	Auto/ Manual / Regional
Spectral Response	380~650nm (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

Dimensions (mm)

