5 Megapixel Scientific CMOS Microscope Camera
MDY513 / MDY513M

Description

MDY513 is a scientific grade microscope camera equipped with high performance 5 megapixel global shutter CMOS sensor Sony IMX264. Thanks to its 2/3 inch sensor we can get a larger field of view. The USB 3.0 interface and 64 Mb buffer memory ensure the camera can stably run at a extremely high frame rate (39fps at 5 MP and 58 fps at 1080P). 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. MDY513 is perfect suitable for applications under low light conditions and in microscopy such as chemiluminescence, gel imaging, fluorescence imaging, DIC, living cells imaging and immunohistochemistry.

Rhythm
MDY513

USB 3.0

Features

- 2/3" global shutter CMOS sensor with 3.45 μm pixel size
- Super high speed USB 3.0 for both data and power
- Full resolution with up to 39 fps
- Very high dynamic range and very low dark noise value
- 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 / Dark field
- Histology
- Pathology
- Cytology
- GFP, FISH, NIR, FRET
- Metrology
- Life science
- Material science
- Semiconductor Inspection
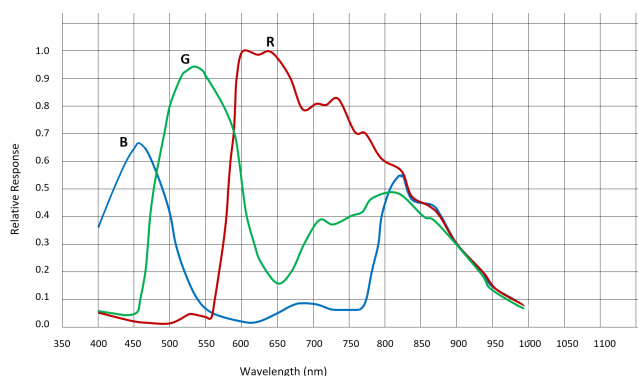
Specifications

Model	MDY513 / MDY513M
Sensor Type	2/3" Sony CMOS
Resolution	2448H x 2048V (5MP)
Pixel Size	3.45 μm x 3.45 μm
Frame Rate	39 fps (2448 x 2048)
Filter	650nm IR Cut-off Filter
Optical Mount	C Mount
Shutter Type	Global
Exposure Time	46 μs ~ 10s
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	<2.5W, Standby: 1.5W
Power Supply	USB 5.0V
Working Temp.	0~50℃
Storage Temp.	-20~60℃
Dimension	90.3mm x 90.3mm x 31mm
Weight	500g

Quantum Efficiency

Dimensions (mm)