

2.3 Megapixel Scientific CMOS Microscope Camera

MDY213 / MDY213M

Description

MDY213 is a scientific grade microscope camera equipped with high performance 2.3 megapixel global shutter CMOS sensor Sony IMX249. Thanks to its 1/1.2 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 (40 fps at 2.3 MP and 1080P resolution). Featuring with low noise, excellent color reproduction, high frame rate and high sensitivity, MDY213 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.

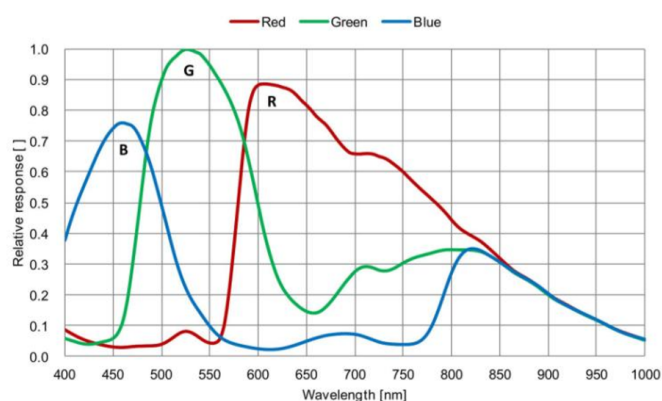
Features

- 1/1.2 inch global shutter CMOS sensor with 5.86 μm pixel size
- Super high speed USB 3.0 for both data and power
- Full resolution with up to 40 fps
- Very high dynamic range and very low dark noise value
- iWorks EX software
- Twain and DirectShow driver compatible
- Dustproof 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

Quantum Efficiency



Specifications

| Model | MDY213 / MDY213M |
|--------------------|---|
| Sensor Type | 1/1.2" Sony CMOS |
| Resolution | 1920H x 1200V (2.3 MP) |
| Pixel Size | 5.86 μm x 5.86 μm |
| Frame Rate | 40 fps (1920 x 1200) |
| Filter | 650nm IR Cut-off Filter |
| Optical Mount | C Mount |
| Shutter Type | Global |
| Exposure Time | 20 μs ~ 40s |
| 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 C |
| Storage Temp. | -20~60 C |
| Dimension | 90.3mm x 90.3mm x 31mm |
| Weight | 500g |

Dimensions (mm)

