

MSC-M(C)42-1-A

Mono and Color Camera

Spectral Devices offers monochrome and color cameras designed with CMOS global shutter sensors for high-speed imaging applications. Full-frame video can be captured at up to 94 FPS in 8-bit mode. Video at several thousand FPS can be captured for smaller regions of interest. Cameras have a 12-bit mode for higher dynamic range imaging. The cameras are USB3 Vision-compliant offering many software choices including graphical, command-line, MATLAB, and LabVIEW applications. Drivers and SDKs are available for both Windows and Linux. No external power supply is needed as power is supplied by the USB3 cable. Accepts C-mount, 25 mm, and 1-inch optical filters. Compact, lightweight, and designed for demanding imaging applications.



FEATURES:

- High Performance CMOS Sensor
- Global Shutter – up to 94 FPS
- USB3 Vision Compliant
- Compact and Lightweight
- Low Power Requirement

SPECIFICATIONS:

- Lens Mount: C-mount
- Interface: USB3 Vision
- Standard: GenICam
- Maximum Bit Depth: 12 bit
- Shutter: Global Shutter
- Sensor Type: CMOS
- Capture Method: Area
- Sensor Model: CMV4000
- Sensor Format: 1-inch
- Sensor Resolution: 4.2 MP
- Sensor Pixels: 2048 x 2048
- Pixel Size (H x V): 5.5 x 5.5 (µm)
- Sensitivity: 400-1000 nm
- Dynamic Range: 60 dB
- Dark Noise: 13 e⁻ (RMS)
- Dark Current: 125 e⁻/s (25 ° C)
- Power Requirement: USB 3.0 interface
- Size: 56 mm x 50 mm x 52 mm (WxHxD)
- Weight: 200 g
- Case: 6061 Aluminium
- Mounting Points: 12 x ¼-20, 12 x M3, 4 x 4-40 for 30 mm cage optics

