

MicroLine CCD Camera

ML4240 DD

This version of the ML4240 uses a back-illuminated sensor on deep depletion silicon, giving high quantum efficiency across the visible and into the near infrared. Deep depletion silicon has substantially higher dark current than standard silicon.

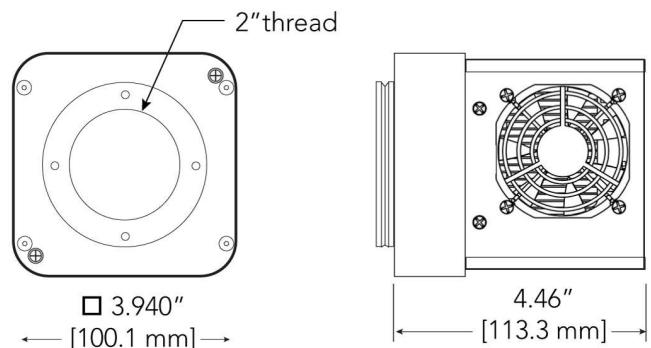
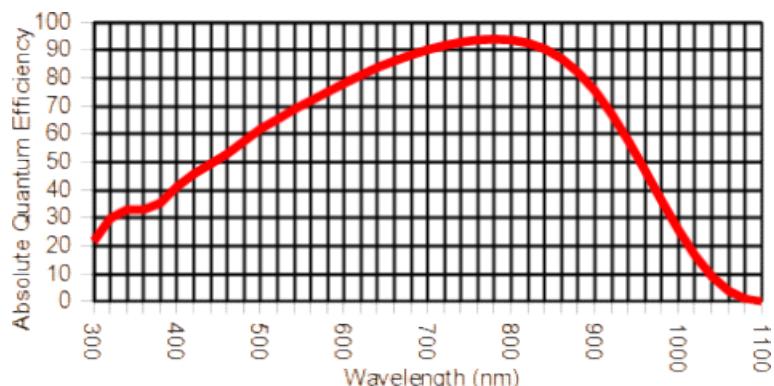
Technical Data

Sensor Type	Back Illum. Deep Depletion (NIMO) CCD
Sensor	e2v CCD42-40-1-169
Active Pixels	2048 x 2048
Pixel Size (microns)	13.5 x 13.5 μm
Imaging Area (Diagonal)	27.6 X 27.6 mm (39.1 mm)
Full Well Capacity (e-)	100000 electrons
Typical Readout Noise	13 e- at 500 kHz; 16 e- at 2 MHz
Dynamic Range	77.4 dB
Anti-Blooming	None
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	55°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	15 eps at -40C
Interface	USB 2.0
Digitization Clock	500 kHz and 2MHz (up to 2 channels)
Data Bit Depth	16 bit
Non-Linearity	<1%
Channels	1
Shutter	45 mm
Lens Mount	Optional Nikon or Canon
Subarray Readout	Standard
External Trigger In/Out	Standard
SDK / Software	USB2 / FLIGrab
Weight	2.8 lbs (1.2 kg)
Environment	-30°C to 45°C 10% - 90% Relative Humidity
Power	

12V (100-240V AC to 12V DC power supply included). With TEC off: <1A. TEC at 100%: 4.4A. Shutter open: 4A pulse for 100msec. Shutter held open, add 0.22A.



Absolute Quantum Efficiency



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