

MicroLine CCD Camera

ML4240 MB

The MicroLine ML4240 offers an outstanding combination of high quantum efficiency, large dynamic range, deep full well capacity, excellent cooling, and large imaging area, all in a compact form factor.

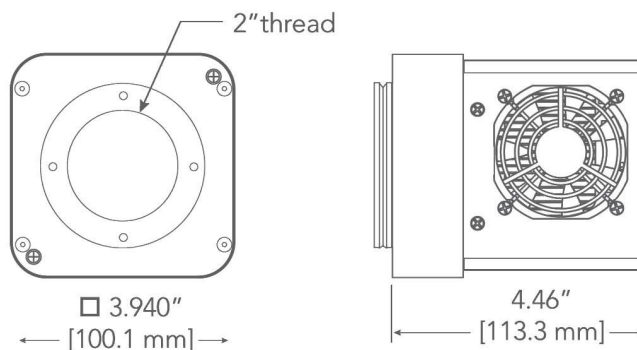
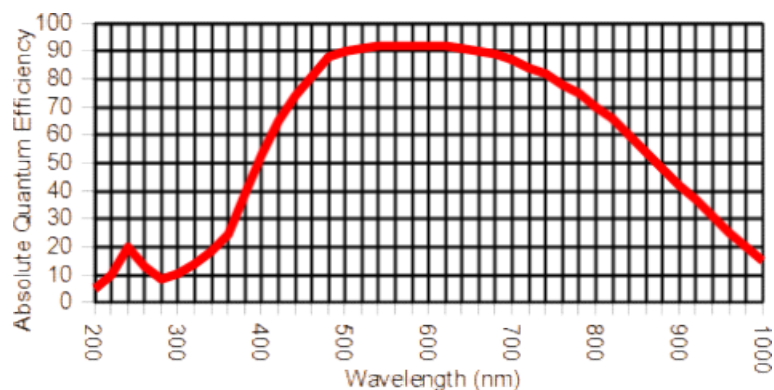
Technical Data

Sensor Type	Back Illuminated CCD
Sensor	e2v CCD42-40-1-368 (Midband)
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	9 e- at 500 kHz; 14 e- at 2 MHz
Dynamic Range	80.6 dB
Anti-Blooming	None
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	55°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	0.2 eps at -30C
Interface	USB 2.0
Digitization Clock	500 kHz and 2MHz
Data Bit Depth	16 bit
Non-Linearity	<1%
Channels	1 (optional 2)
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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