

MicroLine CCD Camera

ML4240 FI

The larger pixels of the front-illuminated CCD in the ML4240 FI provide deep dynamic range and gather more light for improved signal-to-noise.

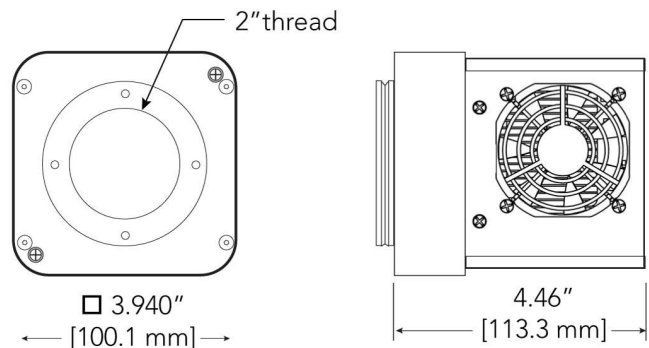
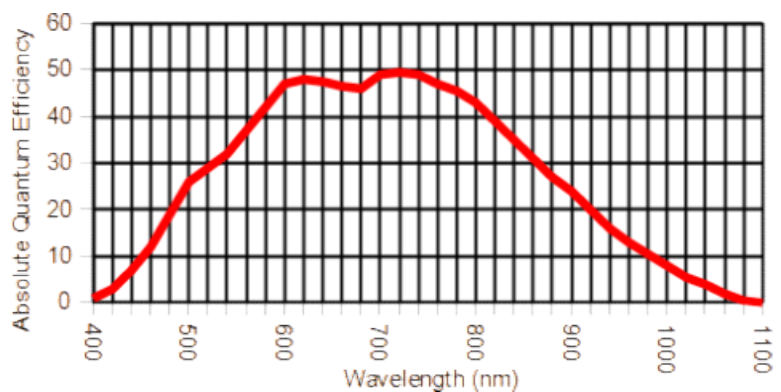
Technical Data

Sensor Type	Front-illuminated CCD
Sensor	e2v CCD42-40-1-383
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	11 e- @ 700 kHz; 17 e- @ 2 MHz
Dynamic Range	78.9 dB
Anti-Blooming	NA
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	58°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	0.25 eps at -30C
Interface	USB 2.0
Digitization Clock	700 kHz and 2 MHz
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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