

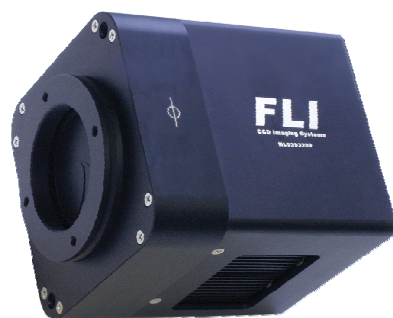
MicroLine CCD Camera

ML4240

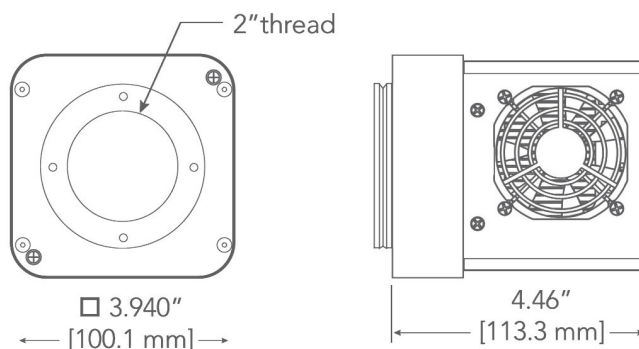
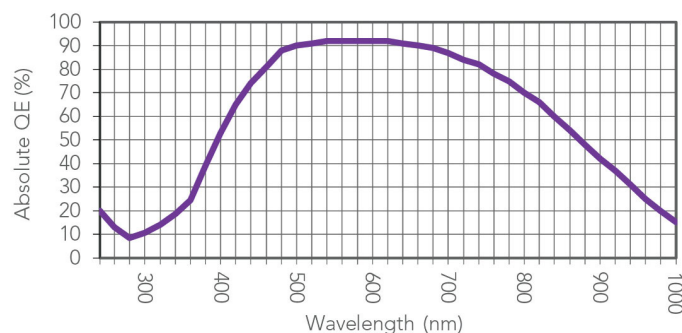
The MicroLine ML4240 offers an outstanding combination of high quantum efficiency, large dynamic range, deep full well capacity, excellent cooling, and large imaging area, all in a compact form factor.

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 μ m
Imaging Area (Diagonal)	27.6 X 27.6 mm (39 mm)
Full Well Capacity	100000 electrons
Typical_Readout Noise	9 e- at 500 kHz; 14 e- at 2 MHz
Typical Gain	1.4 e-/counte-/ADU
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



See www.flicamera.com for alternate configurations