

MicroLine CCD Camera

ML4710 AM

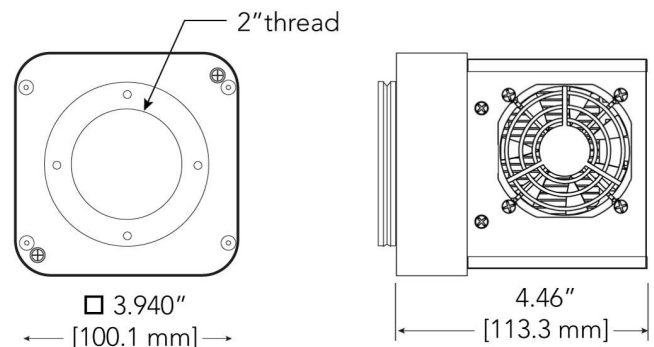
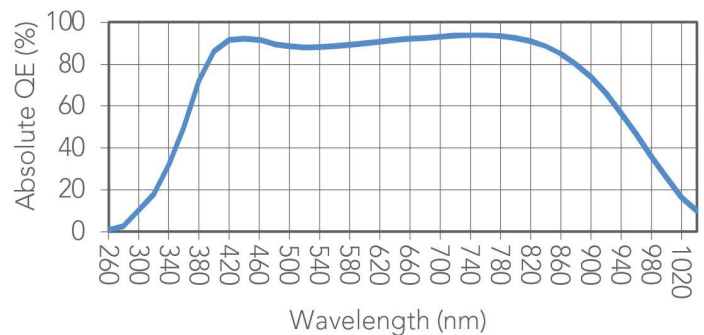
This version of the ML4710 uses a back-illuminated CCD on deep depletion silicon with an enhanced multilayer coating, giving high quantum efficiency across the visible and into the near infrared. Deep depletion silicon has substantially higher dark current than standard silicon.

Technical Data

Sensor Type	Back Illuminated Deep Depletion CCD
Sensor	e2v CCD47-10-1-197 (AM2, NIMO)
Active Pixels	1024 x 1024
Pixel Size (microns)	13 x 13 μm
Imaging Area (Diagonal)	13.3 X 13.3 mm (18.8 mm)
Full Well Capacity	100000 electrons
Typical_Readout Noise	11 e- RMS @ 700 kHz; 17e- at 2 MHz
Typical Gain	1.3 e-/counte-/ADU
Dynamic Range	78.9 dB
Anti-Blooming	None
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	65°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	23 eps at -35C
Interface	USB 2.0
Digitization Clock	700 kHz, 2 MHz
Data Bit Depth	16 bit
Non-Linearity	<1%
Channels	1
Shutter	25 mm; optional 45 mm
Lens Mount	C-mount; optional Nikon
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 hold current: 1.0-2.0A



Absolute Quantum Efficiency



See www.flicamera.com for alternate configurations