

MicroLine CCD Camera

ML4720

The ML4720 uses a back-illuminated frame transfer CCD. Half of the sensor is covered with a metal mask; half is exposed to light. The exposed side of the sensor is centered in the camera aperture. The image is shifted under the mask in about 10 milliseconds.

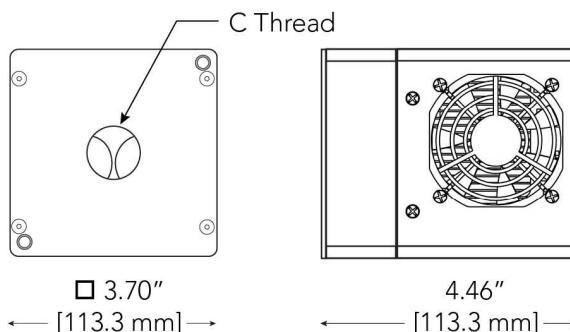
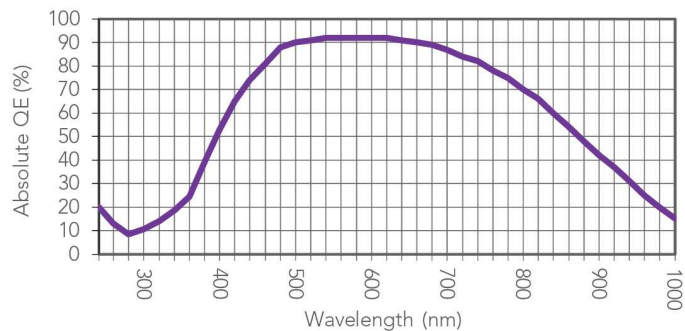
Technical Data

Sensor Type	Back Illuminated Frame Transfer CCD
Sensor	e2v CCD47-20-1-339 (MB)
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 (e-)	13e- at 500 kHz; 18e- at 2 MHz
Typical Gain	2.4e-/ADU
Dynamic Range	79.7 dB
Anti-Blooming	None
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	55°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	0.3 eps at -30C
Interface	USB 2.0
Digitization Clock	500 kHz and 2 MHz per channel
Data Bit Depth	16 bit
Non-Linearity	<1%
Channels	2 (optional 1)
Shutter	Optional 25mm
Lens Mount	C-mount; Nikon or Canon mount
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



MADE IN USA

Finger Lakes Instrumentation
www.flicamera.com
USA 585-624-3760