

MicroLine CCD Camera

ML4720 UV

The ML4720 UV 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 moved from the exposed side to the masked side in about 10 milliseconds. The UV version of this sensor cannot operate in inverted mode; dark current is much higher than the midband and broadband versions (see separate data sheet).

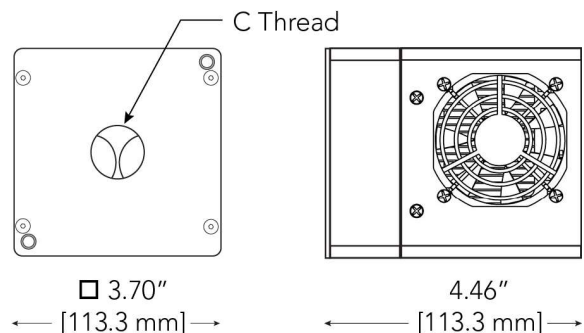
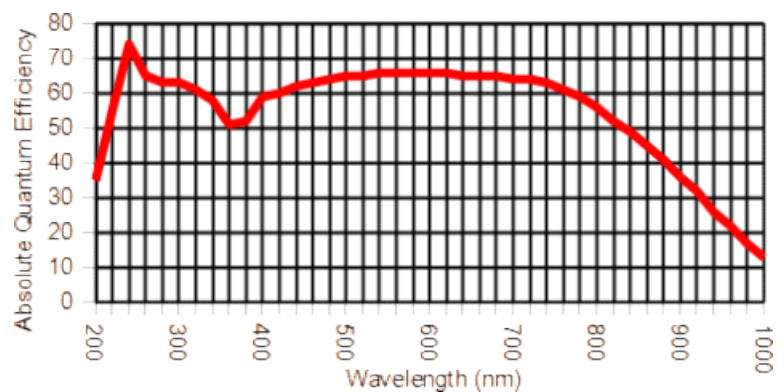
Technical Data

Sensor Type	Back Illuminated Frame transfer CCD
Sensor	e2v CCD47-20-1-170 (UV)
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 (e-)	100000 electrons
Typical_Readout Noise	10e- at 500 kHz; 16e- at 4 MHz
Dynamic Range	79.7 dB
Anti-Blooming	NA
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	55°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	15 eps at -30C
Interface	USB 2.0
Digitization Clock	500 kHz and 4 MHz per channel
Data Bit Depth	16 bit
Non-Linearity	<1%
Channels	2 (optional 1)
Shutter	Optional 25 mm
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.



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