FINGER LAKES INSTRUMENTATION

MICROLINE CCD CAMERA

ML4240 MB.

DATASHEET flicamera.com/models/ml4240-mb

PRODUCT PAGE

MADE IN USA

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.



KEY SPECIFICATIONS

SENSOR	SIZE (MM)	RESOLUTION	PIXEL SIZE
e2v CCD42-40-1-368 (Midband)	27.6 X 27.6 mm (39.1 mm)	2048 x 2048	13.5 x 13.5 µm

FULL WELL	READ NOISE	DARK CURRENT	PEAK Q.E.
100000 electrons	9 e- at 500 kHz; 14 e- at 2 MHz	0.2 eps at -30C	96%

TECHNICAL DATA

Sensor Type	Back Illuminated CCD
Active Pixels	2048 x 2048
Imaging Area (Diagonal)	27.6 X 27.6 mm (39.1 mm)
Typical Readout Noise	9 e- at 500 kHz; 14 e- at 2 MHz
Anti-Blooming	None
Max. Cooling (Air)	55°C below ambient
Dark Current (typical)	0.2 eps at -30C
Digitization Clock	500 kHz and 2MHz
Non-Linearity	<1%

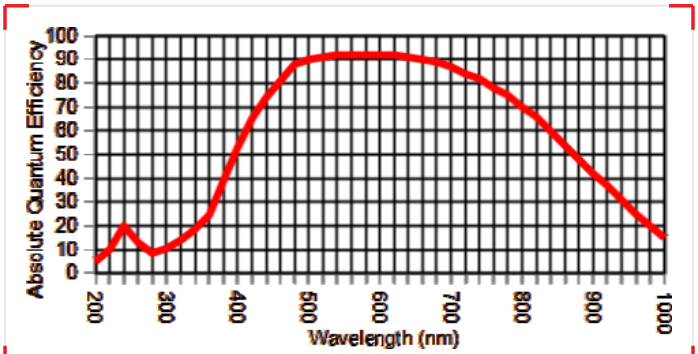
Sensor	e2v CCD42-40-1-368 (Midband)
Pixel Size (microns)	13.5 x 13.5 µm
Full Well Capacity (e-)	100000 electrons
Dynamic Range	80.6 dB
Cooling Method	Air (Optional liquid)
Temperature Stability	0.1°C
Interface	USB 2.0
Data Bit Depth	16 bit
Channels	1 (optional 2)

Shutter	45 mm
Lens Mount	Optional Nikon or Canon
External Trigger In/Out	Standard
Weight	2.8 lbs (1.2 kg)
Peak QE	96%

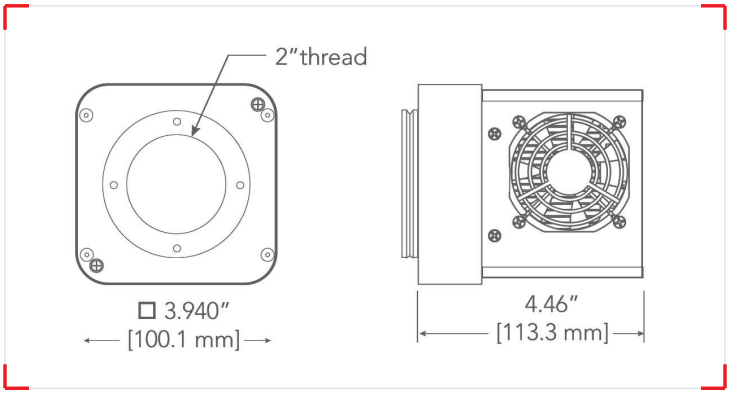
Default BFD	Short
Subarray Readout	Standard
SDK / Software	USB2 / FLIGrab
Environment	-30°C to 45°C | 10% - 90% Relative Humidity

TECHNICAL FIGURES

Absolute quantum efficiency



Mechanical outline



NOTES AND OPERATING CONDITIONS

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.

Default BFD: optical back focal distance of the default configuration, measured from the flat part of the front flange (not including the dovetail) to the sensor. It varies with the flange chosen.

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Request a quote for ML4240 MB

REQUEST A QUOTE

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MECHANICAL DRAWING

DEFAULT CONFIGURATION (Other Flanges Available)

