FINGER LAKES INSTRUMENTATION

MADE IN USA

MICROLINE CCD CAMERA

ML4710 FI.

DATASHEET flicamera.com/models/ml4710-fi

PRODUCT PAGE

The larger pixels of the front-illuminated CCD in the ML4710 provide deep dynamic range and gather more light for improved signal-to-noise.



KEY SPECIFICATIONS

SENSOR	SIZE (MM)	RESOLUTION	PIXEL SIZE
e2v CCD47-10-1-354	13.3 X 13.3 mm (18.8 mm)	1024 x 1024	13 x 13 µm

FULL WELL	READ NOISE	DARK CURRENT	BIT DEPTH
100000 electrons	10e- @ 700 kHz; 17e- @ 2 MHz	0.2 eps at -30C	16 bit

TECHNICAL DATA

Sensor Type	Front Illuminated CCD
Active Pixels	1024 x 1024
Imaging Area (Diagonal)	13.3 X 13.3 mm (18.8 mm)
Typical Readout Noise	10e- @ 700 kHz; 17e- @ 2 MHz
Anti-Blooming	None
Max. Cooling (Air)	60°C below ambient
Dark Current (typical)	0.2 eps at -30C
Digitization Clock	700 kHz and 2 MHz digitization
Non-Linearity	<1%

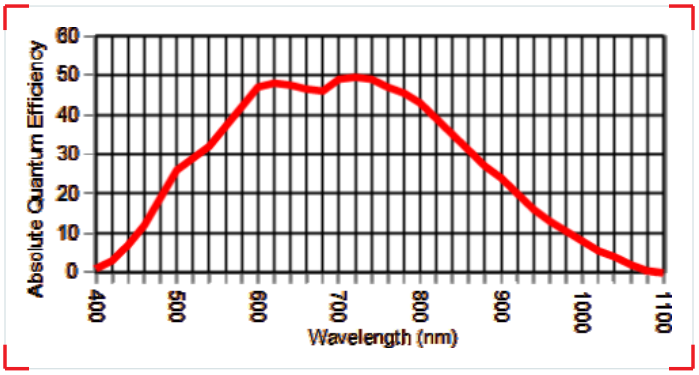
Sensor	e2v CCD47-10-1-354
Pixel Size (microns)	13 x 13 µm
Full Well Capacity (e-)	100000 electrons
Dynamic Range	79.7 dB
Cooling Method	Air (Optional liquid)
Temperature Stability	0.1°C
Interface	USB 2.0
Data Bit Depth	16 bit
Channels	1

Shutter	25mm; Optional 45mm
Subarray Readout	Standard
SDK / Software	USB2 / FLIGrab
Environment	-30°C to 45°C | 10% - 90% Relative Humidity

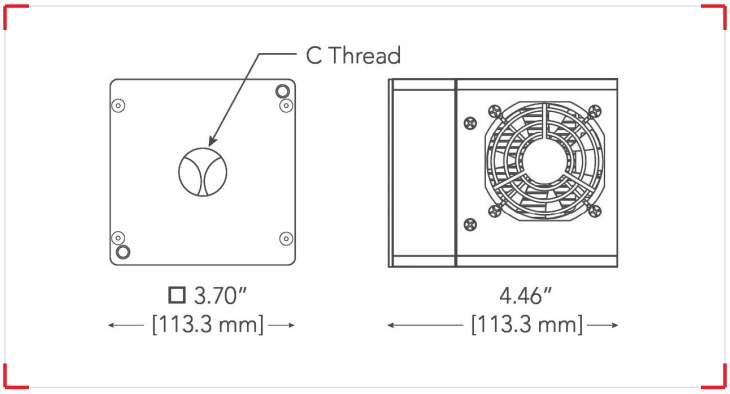
Lens Mount	Optional Nikon mount
External Trigger In/Out	Standard
Weight	2.8 lbs (1.2 kg)

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.

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