FINGER LAKES INSTRUMENTATION

MADE IN USA

MICROLINE CCD CAMERA

ML4710 MB.

DATASHEET flicamera.com/models/ml4710-mb

PRODUCT PAGE

The back-illuminated CCD in the ML4710 has exceptionally high quantum efficiency. Larger pixels provide deep dynamic range and gather more light for improved signal-to-noise. Available with midband, broadband, or UV coating on the sensor.



KEY SPECIFICATIONS

SENSOR	SIZE (MM)	RESOLUTION	PIXEL SIZE
e2v CCD47-10-1-353	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	0.1 eps at -40C	16 bit

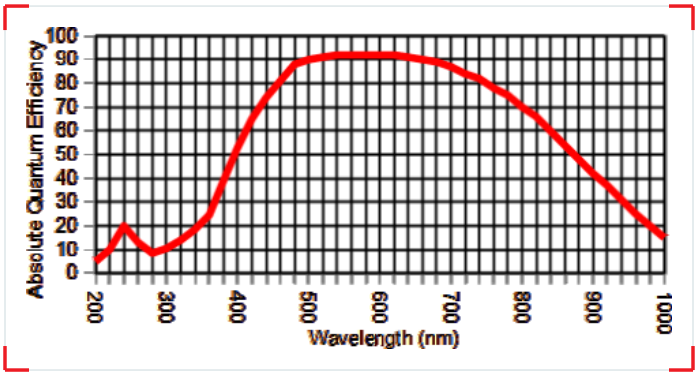
TECHNICAL DATA

Sensor Type	Back Illuminated CCD	**Sensor**	e2v CCD47-10-1-353
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- @ 700 kHz; 17e- @ 2 MHz	**Dynamic Range**	79.7 dB
Anti-Blooming	None	**Cooling Method**	Air (Optional liquid)
Max. Cooling (Air)	60°C below ambient	**Temperature Stability**	0.1°C
Dark Current (typical)	0.1 eps at -40C	**Interface**	USB 2.0
Digitization Clock	700 kHz and 2 MHz digitization	**Data Bit Depth**	16 bit
Non-Linearity	<1%	**Channels**	1

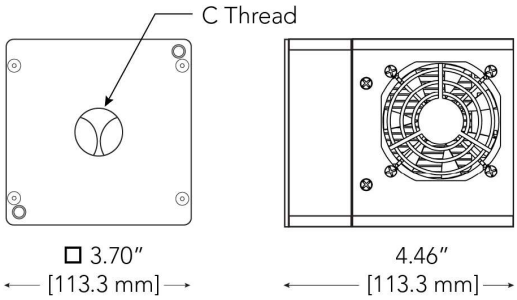
Shutter	25mm	**Lens Mount**	C-mount; Optional Nikon
Subarray Readout	Standard	**External Trigger In/Out**	Standard
SDK / Software	USB2 / FLIGrab	**Weight**	2.8 lbs (1.2 kg)
Environment	-30°C to 45°C | 10% - 90% Relative Humidity		

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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