FINGER LAKES INSTRUMENTATION

MADE IN USA

MICROLINE CCD CAMERA

ML4720 MB.

DATASHEET flicamera.com/models/ml4720-mb

PRODUCT PAGE

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.



KEY SPECIFICATIONS

SENSOR	SIZE (MM)	RESOLUTION	PIXEL SIZE
e2v CCD47-20-1-339 (MB)	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	13e- at 500 kHz; 18e- at 2 MHz	0.3 eps at -30C	16 bit

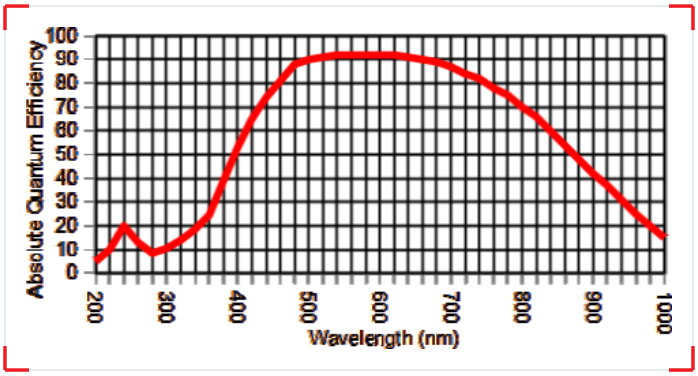
TECHNICAL DATA

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 (e-)**	100000 electrons
Typical Readout Noise	13e- at 500 kHz; 18e- at 2 MHz	**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)

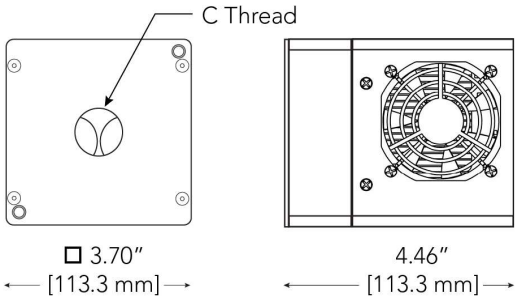
Shutter	Optional 25mm	**Lens Mount**	C-mount; Nikon or Canon mount
Subarray Readout	Standard	**External Trigger In/Out**	Standard
SDK / Software	USB2 / FLIGrab	**Weight**	2.8 lbs (1.2 kg)
Environment	-30°C to 45°C | 10% - 90% Relative Humidity		

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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