FINGER LAKES INSTRUMENTATION

PROLINE CCD CAMERA

PL4240.

DATASHEET flicamera.com/models/pl4240

PRODUCT PAGE

MADE IN USA

ProLine sets the standards in key performance areas that include: download speeds, cooling, low noise operation, anti-ghosting technology, image quality, and linearity. ProLine frame quality is second to none thanks to careful design, implementation, and setup.



KEY SPECIFICATIONS

SENSOR	SIZE (MM)	RESOLUTION	PIXEL SIZE
e2v CCD42-40-1-368 (MB)	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	10 e- RMS @ 500 kHz; 14 e- @ 2 MHz	0.2 eps at -30C	96%

TECHNICAL DATA

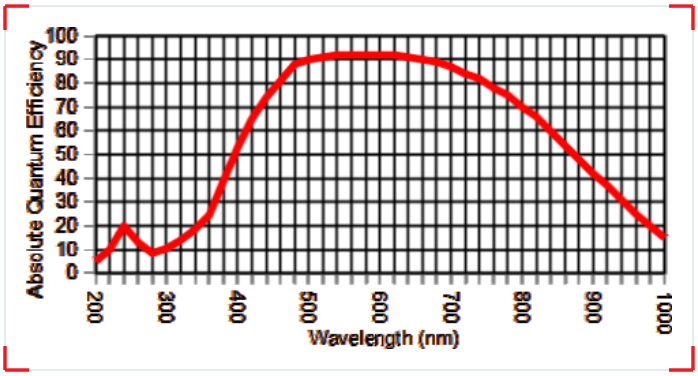
Sensor Type	Back Illuminated CCD
Active Pixels	2048 x 2048
Imaging Area (Diagonal)	27.6 X 27.6 mm (39.1 mm)
Typical Readout Noise	10 e- RMS @ 500 kHz; 14 e- @ 2 MHz
Anti-Blooming	None
Max. Cooling (Air)	60°C below ambient
Dark Current (typical)	0.2 eps at -30C
Digitization Clock	500 kHz and 2 MHz
Non-Linearity	<1%
Shutter	65 mm

Sensor	e2v CCD42-40-1-368 (MB)
Pixel Size (microns)	13.5 x 13.5 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
Channels	1
Default BFD	Long

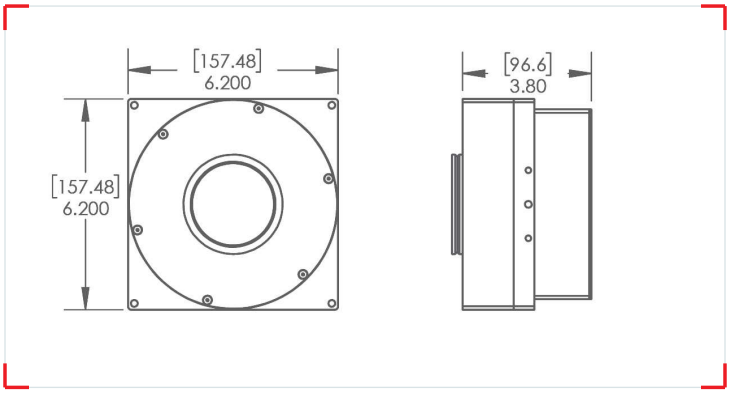
Lens Mount	Optional Nikon F-mount or Canon EOS
External Trigger In/Out	Standard
Weight	5.6 lbs (2.5 kg)
Peak QE	96%
Subarray Readout	Standard
SDK / Software	USB2 / FLIGrab
Environment	-30°C to 45°C | 10% - 90% Relative Humidity

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%: 4.6A. 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 PL4240

REQUEST A QUOTE

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