FINGER LAKES INSTRUMENTATION

PROLINE CCD CAMERA

PL23042.

DATASHEET flicamera.com/models/pl23042

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 CCD230-42	30.7 X 30.7 mm (43.4 mm)	2048 x 2048	15 x 15 µm

FULL WELL	READ NOISE	DARK CURRENT	BIT DEPTH
150000 electrons	13e- @ 500 kHz; 22e- @ 3 MHz	0.2 eps at -30C	16

TECHNICAL DATA

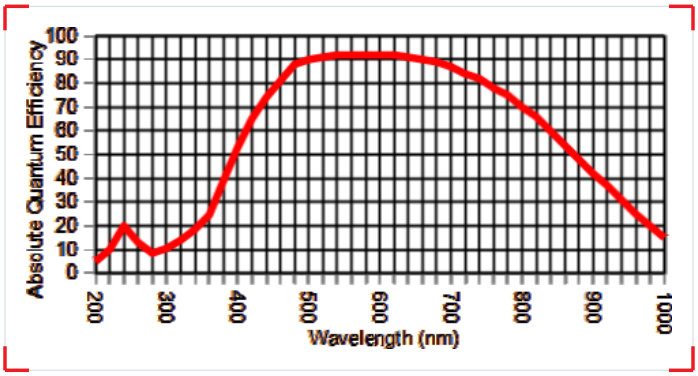
Sensor Type	Back illuminated CCD
Active Pixels	2048 x 2048
Imaging Area (Diagonal)	30.7 X 30.7 mm (43.4 mm)
Typical Readout Noise	13e- @ 500 kHz; 22e- @ 3 MHz
Anti-Blooming	None
Max. Cooling (Air)	50°C below ambient
Dark Current (typical)	0.2 eps at -30C
Digitization Clock	500 kHz & 3 MHz
Non-Linearity	<1%
Shutter	65 mm

Sensor	e2v CCD230-42
Pixel Size (microns)	15 x 15 µm
Full Well Capacity (e-)	150000 electrons
Dynamic Range	80.9 dB
Cooling Method	Air (Optional liquid)
Temperature Stability	0.1°C
Interface	USB 2.0
Data Bit Depth	16
Channels	1
Lens Mount	Optional Nikon F-mount or Canon EOS

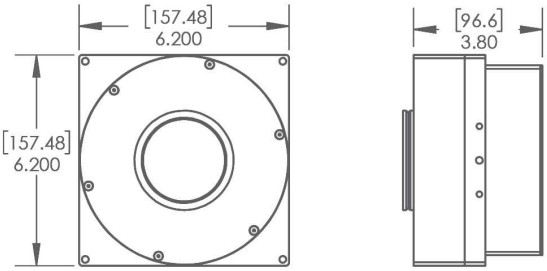
Subarray Readout	Standard	**External Trigger In/Out**	Standard
SDK / Software	USB2 / FLIGrab	**Weight**	5.6 lbs (2.5 kg)
Environment	-30°C to 45°C | 10% - 90% Relative Humidity		

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%: 4.6A. Shutter open: 4A pulse for 100msec. Shutter held open, add 0.22A.

FINGER LAKES INSTRUMENTATION · MADE IN USA

Request a quote for PL23042

REQUEST A QUOTE

flicamera.com/models/pl23042 · USA 585-624-3760