

# ProLine CCD Camera

## PL23042 MB

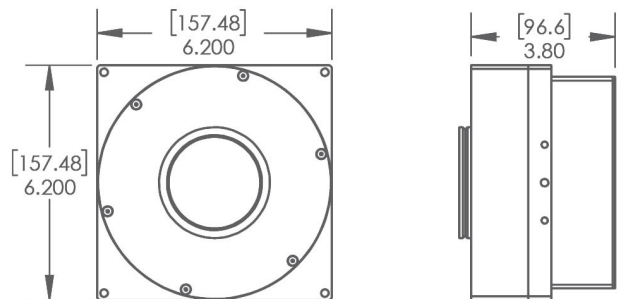
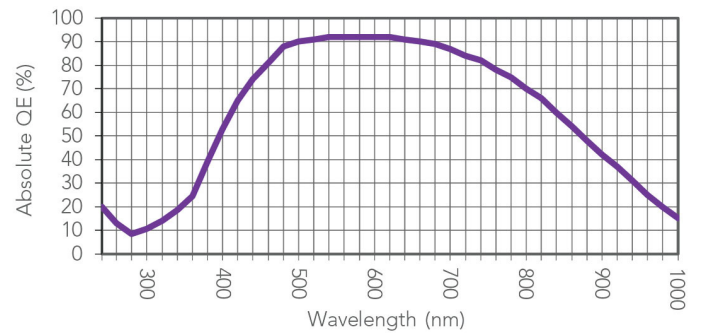
The ProLine PL23042 offers an outstanding combination of high quantum efficiency, deep full well capacity, excellent cooling, and large imaging area.

### Technical Data

Sensor Type	Back illuminated CCD
Sensor	e2v CCD230-42
Active Pixels	2048 x 2048
Pixel Size (microns)	15 x 15 $\mu\text{m}$
Imaging Area (Diagonal)	30.7 X 30.7 mm (43.4 mm)
Full Well Capacity	150000 electrons
Typical_Readout Noise	13e- @ 500 kHz; 22e- @ 3 MHz
Typical Gain	1.85e-/ADU
Dynamic Range	80.9 dB
Anti-Blooming	None
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	50°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	0.2 eps at -30C
Interface	USB 2.0
Digitization Clock	500 kHz & 3 MHz
Data Bit Depth	16 bit
Non-Linearity	<1%
Channels	1
Shutter	65 mm
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
Power	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.



### Absolute Quantum Efficiency



See [www.flicamera.com](http://www.flicamera.com) for alternate configurations