

ProLine PL4240 UV

Quality. Cooled. Cameras.

2048 x 2048 Imaging Array

13.5 μm Pixel Size

ProLine sets the standards in key performance areas that include: download speeds, cooling, low noise operation, anti-ghosting technology, image quality, and linearity. ProLine download speeds are fast while maintaining low noise frame quality. ProLine achieves outstanding cooling without water assist. simply set the ProLine cooling where you want it and the camera will do the rest -- quickly and without worries. ProLine frame quality is second to none thanks to careful design, implementation, and setup. All cameras are assembled in our clean room under exacting conditions and must pass a battery of tests before being shipped.



Features

Benefits

Up to 2 MHz Download Speed

Fast Image capture with full 16-bit resolution

2048 x 2048 Array with 13.5 μm pixels

Resolves fine detail

Flexible binning and readout

Increases frame rate

Thermoelectric Cooling to 60°C Below Ambient°C Below

Excellent low-noise imaging

Excellent quantum efficiency

High sensitivity for fast image acquisition

F-mount available

Wide variety of optical choices

Acquisition software included

Ease of integration with open source SDK

USB 2.0 interface

Industry standard connectivity; fast data transfer



Engineering Excellence

Because Your Image Depends On It.

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*Due to continuous development, all specifications subject to change without notice.

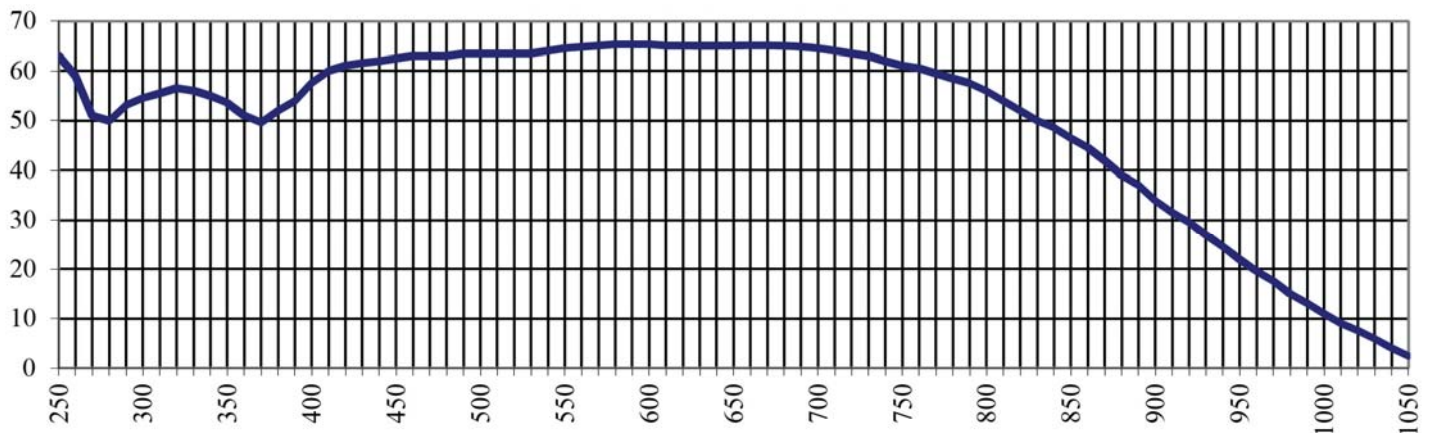
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Sensor Specifications (from manufacturer)

Sensor	E2V CCD42-40-1-075	Sensor Size	27.6 X 27.6 mm	Megapixels	4.2
Pixels	2048 x 2048	Sensor Diagonal	39 mm	Video Size (inch)	2.4
Pixel Size	13.5 μ m	CCD Variants			
Full Well Capacity	100000 electrons	CCD Grades	Grade 1		
Color Options	Monochrome	Anti-Blooming	None		
CCD Type	Back Illuminated (NIMO)				

Sensor Quantum Efficiency (Absolute)



Camera Performance

Typical Maximum Cooling	60°C Below Ambient°	Dark Current (typical)	10 electrons/pixel/sec at -40°C
Temperature Stability	0.1°C	Cooling Method	Air (Optional liquid)
Digitization Speed	500 kHz (up to 6 MHz available)		
Typical System Noise	8 e- RMS @ 500 kHz	Non-Linearity	<1%
Housing Dimensions	6.2 X 6.2 X 3.8 inches (15.7 X 15.7 X 9.6 cm)	Weight	5.6 lbs (2.5 kg)
Focal Plane to Face Plate	21 mm		
Lens Mounts	Optional Nikon F-mount or Canon EOS mount		
Interface	USB 2.0	Camera Channels	1
Available Shutters	65 mm	Shutter MTBF	1000000
External Triggering	Standard		
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. Shutter held open, add 0.22A.		



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