

ProLine PL16801

Quality. Cooled. Cameras.

4096 x 4096 Imaging Array

9 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 8 MHz Digitization

Fast Image capture with full 16-bit resolution

4096 x 4096 Array with 9 μm pixels

Resolves fine detail

Flexible binning and readout

Increases frame rate

Thermoelectric Cooling to 50°C Below Ambient

Excellent low-noise imaging

Excellent quantum efficiency

High sensitivity for fast image acquisition

Optional Nikon F-mount and Canon EOS mount

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

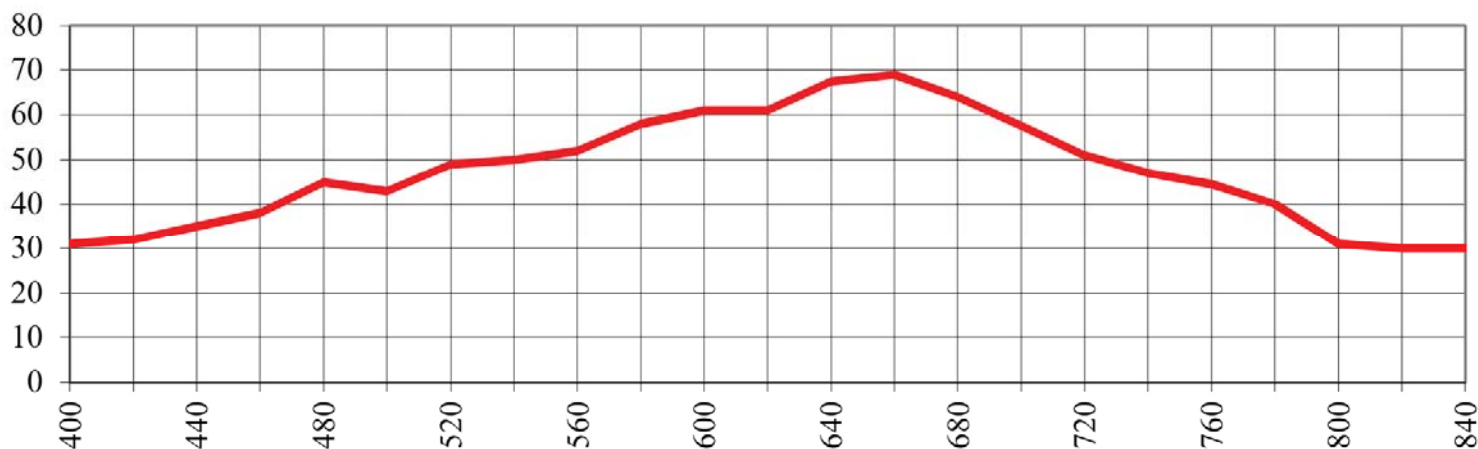
Because Your Image Depends On It.

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Sensor Specifications (from manufacturer)

Sensor	On Semi KAF-16801	Sensor Size	36.8 X 36.8 mm	Megapixels	16.8
Pixels	4096 x 4096	Sensor Diagonal	52 mm	Video Size (inch)	3.3
Pixel Size	9 μ m	CCD Variants			
Full Well Capacity	100000 electrons	CCD Grades	1, 2		
Color Options	Monochrome	Anti-Blooming	None		
CCD Type	Front Illuminated				

Sensor Quantum Efficiency (Absolute)



Camera Performance

Typical Maximum Cooling	50°C below ambient	Dark Current (typical)	<0.02 electrons/pixel/sec at -30°C
Temperature Stability	0.1°C	Cooling Method	Air (Optional liquid)
Digitization Speed	1 MHz, 8 MHz		
Typical System Noise	9 e- RMS @ 1 MHz; 17 e- at 8 MHz	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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