ProLine PL16801

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		



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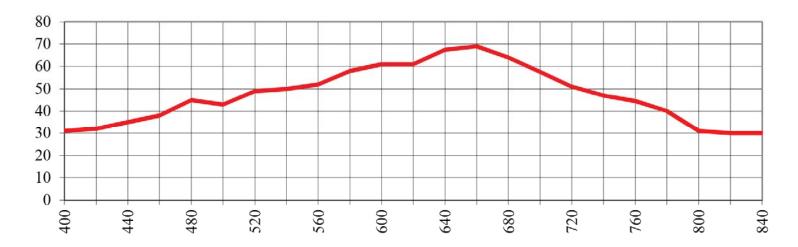
ProLine PL16801

Quality. Cooled. Cameras.

Sensor Specifications (from manufacturer)

Sensor	On Semi KAF-16801				
Pixels	4096 x 4096	Sensor Size	36.8 X 36.8 mm	Megapixels 1	16.8
Pixel Size	9 µm	Sensor Diagonal	52 mm	Video Size (inch) 3	3.3
Full Well Capacity	100000 electrons	CCD Variants			
Color Options	Monochrome	CCD Grades	1, 2		
CCD Type	Front Illuminated	Anti-Blooming	None		

Sensor Quantum Efficiency (Absolute)



Camera Performance							
Typical Maximum Cooling	50°C below ambient	Dark Current (typical) <0.02	electrons/pixel/sec	c at -30°C			
Temperature Stability	0.1°C Cooling Me	thod 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	t −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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*Due to continuous development, all specifications subject to change without notice.