ProLine PL4710

1024 x 1024 Imaging Array

13 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
750 kHz and 2 MHz digitization	Fast Image capture with full 16-bit resolution
1024 x 1024 Array with 13 µm pixels	Resolves fine detail
Flexible binning and readout	Increases frame rate
Thermoelectric Cooling to 60°C Below Ambient	Excellent low-noise imaging
Excellent quantum efficiency	High sensitivity for fast image acquisition
Optional Nikon F-mount or Canon EOS lens 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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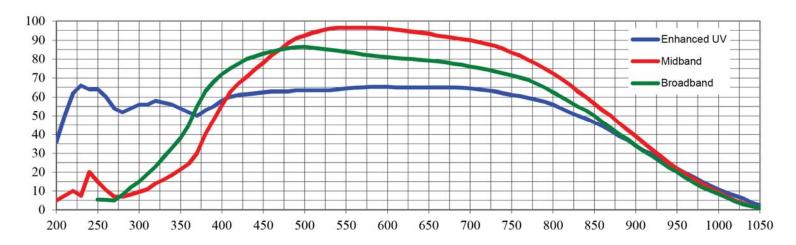
ProLine PL4710

Quality. Cooled. Cameras.

Sensor Specifications	(from manufacturer)
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Sensor	e2v CCD47-10-1-353			
Pixels	1024 x 1024	Sensor Size	13.3 X 13.3 mm	Megapixels 1
Pixel Size	13 µm	Sensor Diagonal	18.8 mm	Video Size (inch) 1.2
Full Well Capacity	100000 electrons	CCD Variants	MB (353);BB (371);	UV (373)
Color Options	Monochrome only	CCD Grades	1	
CCD Type	Full frame	Anti-Blooming	NA	





Camera Performance						
Typical Maximum Cooling		al) 0.05 electrons/pixel/sec a	at -40°C			
Temperature Stability	0.1°C Cooling Method Air (Optional lic	quid)				
Digitization Speed	750 kHz & 2 MHz					
Typical System Noise	9 e- @ 750 kHz; 15 e- @ 2 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	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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*Due to continuous development,all specifications subject to change without notice.