

4008 x 2672 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

1 MHz and 12 MHz Digitization

Fast Image capture with full 16-bit resolution

4008 x 2672 Array with 9 μm pixels

Resolves fine detail

Flexible binning and readout

Increases frame rate

Thermoelectric Cooling to 55°C Below Ambient

Excellent low-noise imaging

Excellent quantum efficiency

High sensitivity for fast image acquisition

Optional Nikon F-mount or 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

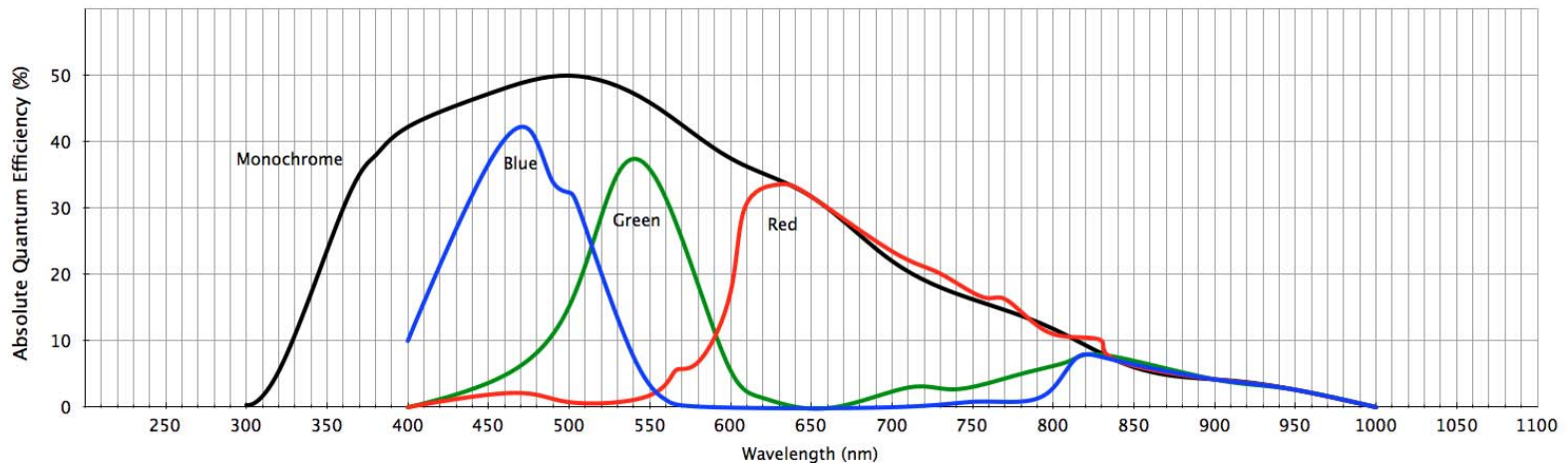
Because Your Image Depends On It.

1250 Rochester St.
Lima NY 14485 · USA
585 624 3760
sales@flicamera.com
www.flicamera.com

Sensor Specifications (from manufacturer)

Sensor	On Semi KAI-11002	Sensor Size	36 X 24 mm	Megapixels	10.7
Pixels	4008 x 2672	Sensor Diagonal	43.2 mm	Video Size (inch)	2.7
Pixel Size	9 μ m	CCD Variants			
Full Well Capacity	60000 electrons	CCD Grades	0, 1, 2		
Color Options	Color and Monochrome	Anti-Blooming	1000x		
CCD Type	Interline Transfer				

Sensor Quantum Efficiency (Absolute)



Camera Performance

Typical Maximum Cooling	55°C below ambient	Dark Current (typical)	<.005 electrons/pixel/sec at -30°C
Temperature Stability	0.1°C	Cooling Method	Air (Optional liquid)
Digitization Speed	1 MHz & 12 MHz		
Typical System Noise	9e- @ 1 MHz; 16e- @ 12 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	Optional 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.		



Engineering Excellence

Because Your Image Depends On It.

1250 Rochester St.
Lima NY 14485 · USA
585 624 3760
sales@flicamera.com
www.flicamera.com