

MicroLine ML11002

Quality. Cooled. Cameras.

4008 x 2672 Imaging Array

9 μm Pixel Size

At 3.7 x 3.7 x 4.8 inches the MicroLine is a small camera with big camera capabilities. Each component of the MicroLine camera is designed and manufactured for a long life in the most demanding conditions. MicroLine download speeds are fast yet maintain the 16-bit resolution necessary to produce high quality images. MicroLine cameras can achieve up to 60°C below ambient cooling without water assist. Simply set the MicroLine cooling where you want it and the camera will do the rest, quickly and without worries.



Features

Benefits

2 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 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.

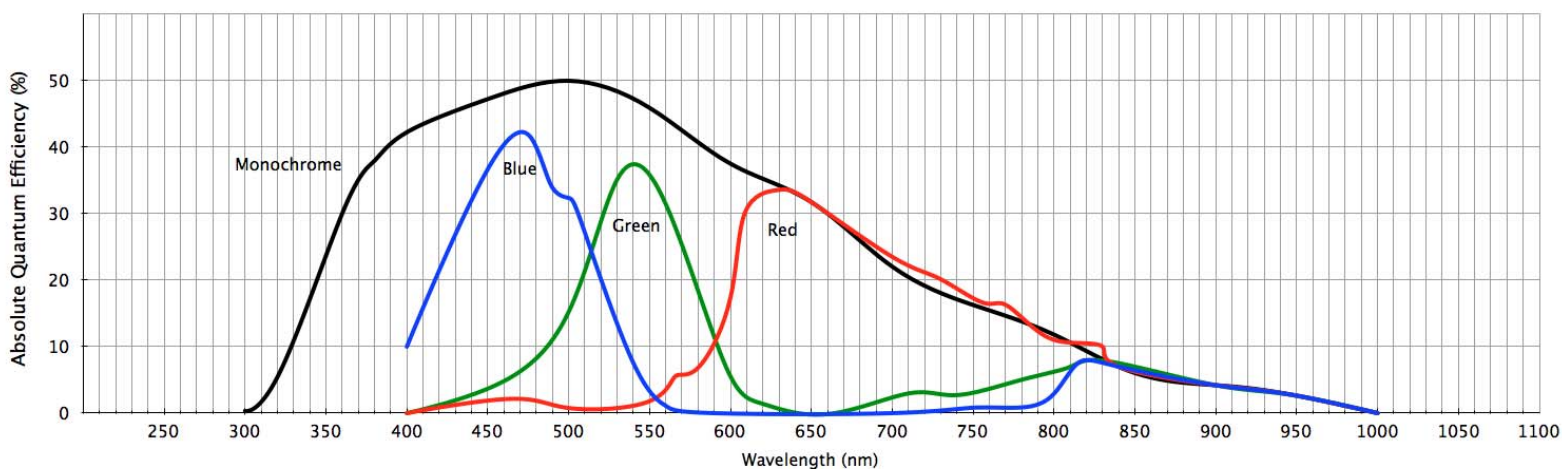
1250 Rochester St.
Lima NY 14485 · USA
585 624 3760
sales@flicamera.com
www.flicamera.com

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

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	60,000 electrons	CCD Grades	0, 1, 2		
Color Options	Mono or Color	Anti-Blooming	1000X		
CCD Type	Interline transfer				

Sensor Quantum Efficiency (Absolute)



Camera Performance

Typical Maximum Cooling	55°C below ambient	Dark Current (typical)	0.004 electrons/pixel/sec at -35°C
Temperature Stability	0.1°C	Cooling Method	Air (Optional liquid)
Digitization Speed	2 MHz and 12 MHz		
Typical System Noise	9 e- at 2 MHz; 14 e- at 12 MHz	Non-Linearity	<1%
Housing Dimensions	3.7 X 3.7 X 4.77 inches (9.3 X 9.3 X 12.1 cm)	Weight	3.96 lbs (1.8 kg)
Focal Plane to Face Plate	15.7mm (21mm with optional shutter)		
Lens Mounts	Optional Nikon F-mount or Canon EOS Mount		
Interface	USB 2.0	Camera Channels	1 (optional 2)
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%: 4.4A. Shutter open: 4A pulse for 100msec. Shutter held open, add 0.22A.		



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