

MicroLine ML8051

Quality. Cooled. Cameras.

3296 x 2472 Imaging Array

5.5 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.



Applications

- Digital Radiography
- Astronomy
- Bioluminescence
- Chemiluminescence
- Gel Documentation
- Forensic Imaging
- Satellite Imaging
- Low Light Level Imaging

Features	Benefits
1.5 MHz & 12 MHz Digitization	Fast Image capture with full 16-bit resolution
3296 x 2472 Array with 5.5 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 Micro 4/3; Nikon F-mount; Canon EOS	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.

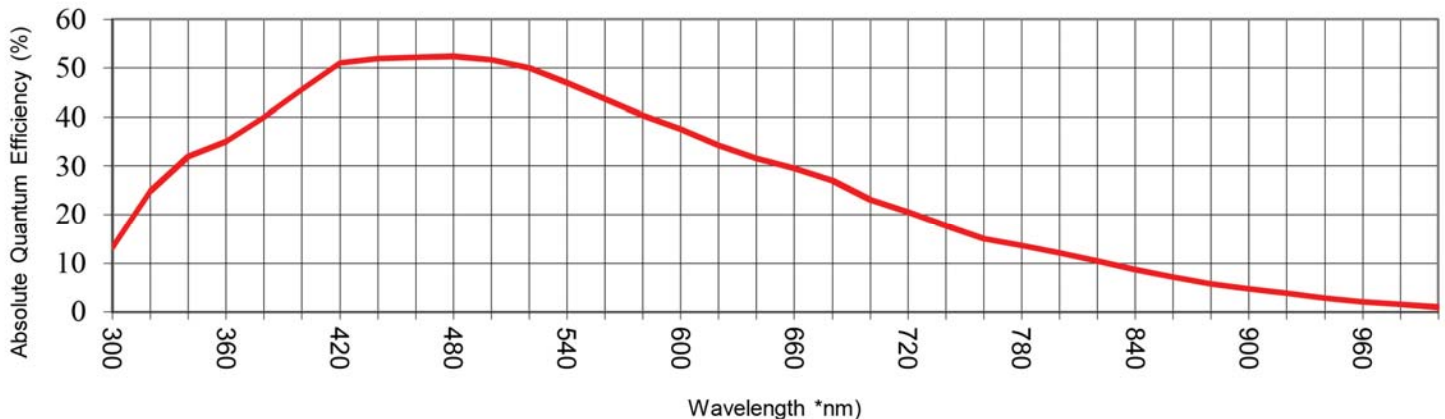
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*Due to continuous development, all specifications subject to change without notice.

Sensor Specifications (from manufacturer)

Sensor	On Semi KAI-08051	Sensor Size	18.1 X 13.5 mm	Megapixels	8
Pixels	3296 x 2472	Sensor Diagonal	22.5 mm	Video Size (inch)	1.4
Pixel Size	5.5 μ m	CCD Variants			
Full Well Capacity	20,000 electrons	CCD Grades	Standard		
Color Options	Mono or Color	Anti-Blooming	300x		
CCD Type	Interline transfer				

Sensor Quantum Efficiency (Absolute)



Camera Performance

Typical Maximum Cooling	55°C below ambient	Dark Current (typical)	0.001 electrons/pixel/sec at -30°C
Temperature Stability	0.1°C	Cooling Method	Air (Optional liquid)
Digitization Speed	1.5 MHz & 12 MHz (optional two channels @ 10 MHz each)		
Typical System Noise	3.5e- RMS @ 1.5 MHz; 6e- RMS @ 12 MHz	Non-Linearity	<1%
Focal Plane to Face Plate	15.7 mm optical	Weight	2.8 lbs (1.2 kg)
Typical Gain		Housing	3.7 X 3.7 X 4.77 inches (9.3 X 9.3 X 12.1 cm)
Lens Mounts	Optional Micro 4/3; Nikon F-mount; Canon EOS		
Interface	USB 2.0	Camera Channels	1 (optional 2)
Available Shutters	Electronic shutter standard; optional 25 or 45 mm		
External Triggering	Standard		1000000
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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