MicroLine ML16803

4096 x 4096 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.



Applications

Digital Radiography		
Astronomy		
Bioluminescence		
Chemiluminescence		

Gel Documentation Forensic Imaging Satellite Imaging Low Light Level Imaging

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
700 kHz and 2 MHz digitization	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



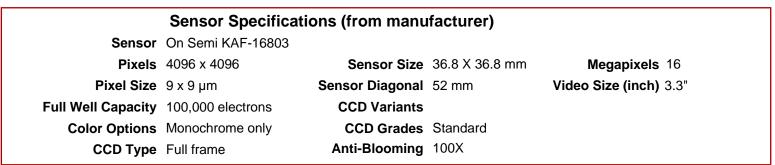
Engineering Excellence

Because Your Image Depends On It.

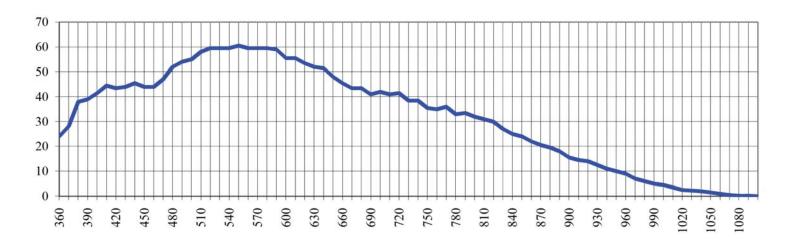
1250 Rochester St. Lima NY 14485 · USA 585 624 3760 sales@flicamera.com www.flicamera.com

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

MicroLine ML16803



Sensor Quantum Efficiency (Absolute)



Camera Performance			
Typical Maximum Cooling	50°C below ambient	Dark Current (typical) <0.01 eps at -30°C	
Temperature Stability	0.1°C Cooling Metho	d Air (Optional liquid)	
Digitization Speed	1 MHz and 8 MHz		
Typical System Noise	10 e- at 1 MHz; 15 e- at 8 MHz	Non-Linearity <1%	
Focal Plane to Face Plate	21 mm	Weight 4.5 lbs (2 kg)	
Typical Gain	1.4e-/count	Housing 5.07 X 5.07 X 5 inches (12.8 X 12.8 X 12.7 cm)	
Lens Mounts	Optional Nikon F-mount and Canon EOS mount		
Interface	USB 2.0 Ca	nera Channels 1	
Available Shutters	65 mm		
External Triggering	Standard	Shutter MTBF 1000000	
Environment	-30°C to 45°C 10% - 90% Relative Humidity		
Power	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.			



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.