MicroLine ML2020

Quality. Cooled. Cameras.

1600 x 1200 Imaging Array

7.4 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.



Shown with C-mount; other mounts available

Applications

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

Features	Benefits
12 MHz dgitization (lower noise options on request)	Fast Image capture with full 16-bit resolution
1600 x 1200 Array with 7.4 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
C-mount; 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



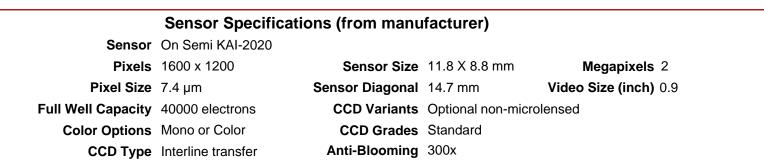
Engineering Excellence

Because Your Image Depends On It.

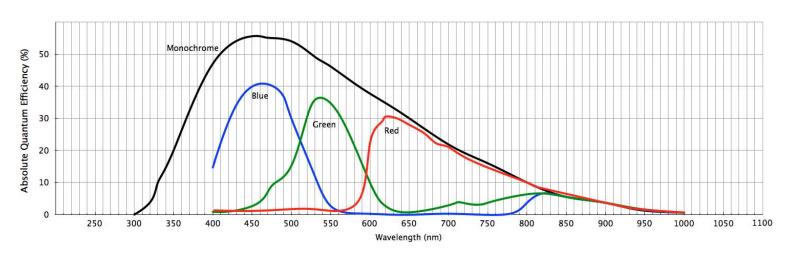
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*Due to continuous development, all specifications subject to change without notice.

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Sensor Quantum Efficiency (Absolute)



Camera Performance		
Typical Maximum Cooling	50°C below ambient Dark Current (typical) 0.002 electrons/pixel/sec at -3	30°C
Temperature Stability	0.1°C Cooling Method Air (Optional liquid)	
Digitization Speed	I 12 MHz	
Typical System Noise	e 11e- Non-Linearity <1	1%
Housing Dimensions	3 .7 X 3.7 X 4.77 inches (9.3 X 9.3 X 12.1 cm) Weight 2.8	8 lbs (1.2 kg)
Focal Plane to Face Plate	e 15.7 mm optical; 17.5 mm at C-mount	
Lens Mounts	ts C-mount; optional Nikon F-mount or Canon EOS mount	
Interface	USB 2.0 Camera Channels	
Available Shutters	No internal shutter; optional 25 mm	
External Triggering	Standard	
Environment	t -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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