## MicroLine ML16200

### 4500 x 3600 Front Illuminated CCD

#### 6.0 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		
2 MHz & 12 MHz digitization	Fast Image capture with full 16-bit resolution		
4500 x 3600 Array with 6.0 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 F-mount lens 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		



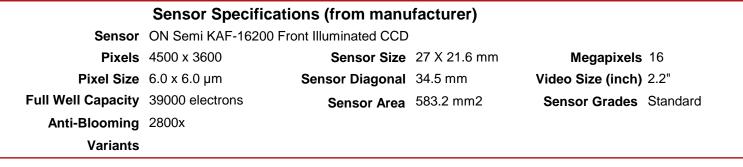
### Engineering Excellence

Because Your Image Depends On It.

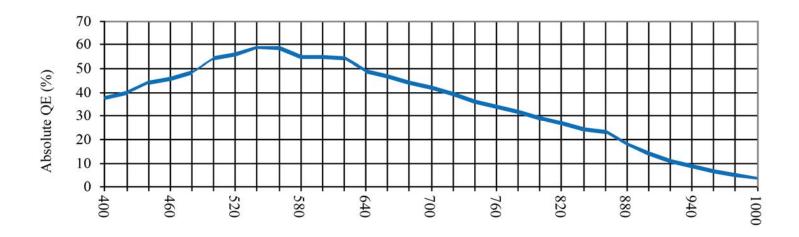
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\*Due to continuous development, all specifications subject to change without notice.

# MicroLine ML16200



#### Sensor Quantum Efficiency (Absolute)



Camera Performance					
Typical Maximum Cooling	-55°C below ambient	Dark Current (typical)	0.015 eps at -25°	С	
Temperature Stability	0.1°C Cooling Method	Air (Optional liquid)			
Digitization Speed	2 MHz and 12 MHz Focus mode	(software selectable)			
Typical System Noise	6 e- RMS @ 2 MHz; 11.5 e- at 1	2 MHz	Non-Linearity	<1%	
Focal Plane to Face Plate	15.4 mm		Typical Gain	0.6 e- / count	
	3.7 X 3.7 X 4.77 inches (9.3 X 9.	3 X 12.1 cm)		2.8 lbs (1.2 kg)	
Lens Mounts	F-Mount				
Interface	USB 2.0 Cam	era Channels 1			
Available Shutters	45 mm				
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 ope	en: 4A pulse for 100msec.	Shutter held ope	n, add 0.22A.	



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