MicroLine ML4240

2048 x 2048 Imaging Array

13.5 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	
750 kHz and 2 MHz digitization	Fast Image capture with full 16-bit resolution	
2048 x 2048 Array with 13.5 µm pixels	Resolves fine detail	
Flexible binning and readout	Increases frame rate	
Thermoelectric Cooling to 58°C Below Ambient	Excellent low-noise imaging	
Excellent quantum efficiency	High sensitivity for fast image acquisition	
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	



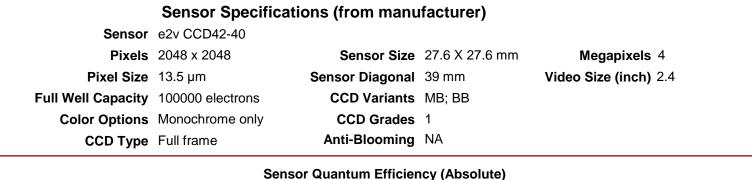
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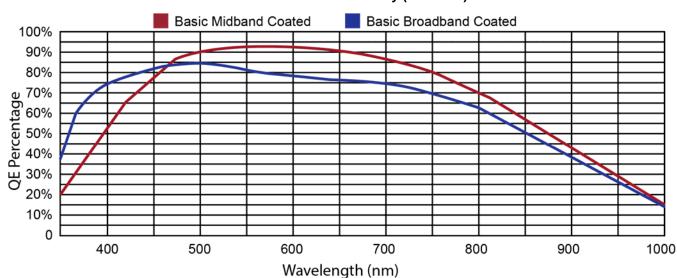
Because Your Image Depends On It.

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

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	Camora Bo	rformanco			
Camera Performance					
Typical Maximum Cooling	58°C below ambient Da	ark Current (typical) 0.2 electro	ns/pixel/sec at -30°C		
Temperature Stability	0.1°C Cooling Met	hod Air (Optional liquid)			
Digitization Speed	750 kHz and 2 MHz (up to 2	2 channels at 3 MHz each)			
Typical System Noise	9 e- @ 500 kHz; 14 e- @ 2	MHz	Non-Linearity <1%		
Housing Dimensions	3.7 X 3.7 X 4.77 inches (9.3	3 X 9.3 X 12.1 cm)	Weight 2.8 lbs (1.2 kg)		
Focal Plane to Face Plate	15.7 mm				
Lens Mounts	Optional Nikon F-mount and Canon EOS lens adapters				
Interface	USB 2.0	Camera Channels 1 (optional 2	2)		
Available Shutters	43 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. Shutte	er open: 4A pulse for 100msec.	Shutter held open, add 0.22A.		



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