640 x 480 Imaging Array Size 7.4 μm Pixel Size

At 3.7 x 3.7 x 5 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 achieves a minimum of 60° C sustainable cooling without water assist. Simply set the MicroLine cooling where you want it and the camera will do the rest, quickly and without worries.

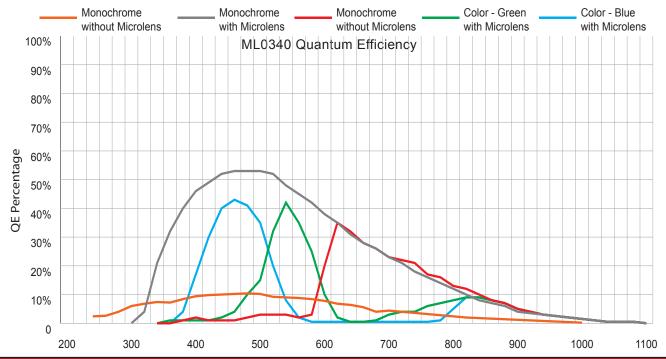


Applications

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

Features	Benefits
12 MHz Download Speed	Fast image capture with full 16-bit resolution
640 x 480 Array Size / 7.4 μm Pixel Size	Resolves fine detail
Flexible Binning and Readout	Increases frame rate
Thermoelectric Cooling to -60° C	Excellent low-noise imaging
Excellent Quantum Efficiency	High sensitivity
C-Mount and F-Mount Compatible	Offers a wide variety of optical choices
Acquisition Software	Supplied with camera and includes our open source SDK
USB 2.0 Interface	Industry standard connectivity, fast data transfer





ML0340 Specifications	
Sensor	KAI-0340
Array Size	640 x 480
Pixel Size	7.4 µm
Typical Minimum Cooling	-60° C Below Ambient
Typical Download Speed @ 16-bit	12 MHz (other speeds available)
Typical System Noise	8 e- RMS @ 12 MHz
Nonlinearity	<1%
Temperature Stability	0.1° C
Operating Environment	-30° C - 45° C 10% - 90% Relative Humidity
Sensor Manufacturer	Kodak
CCD Grades Available	Standard
CCD Type	Interline
Color/Monochrome	Color and Monochrome
Mega Pixels	.30
Sensor Diagonal	5.9 mm
Linear Full Well	40,000 e-
Typical Dark Current	<0.08 e-/pixel/sec. @ -35° C
Anti Blooming	300x
Available Shutters (Optional)	25 mm (Sensor has an electronic shutter)
Shutter MTBF	1,000,000
Remote Triggering	Standard
Power	12v
Interface	USB 2.0
Dimensions	3.70 x 3.70 x 4.77 (94 x 94 x 121.3)



