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.



Features	Benefits
	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 55°C Below Ambient°C Below	Excellent low-noise imaging
Excellent quantum efficiency	High sensitivity for fast image acquisition
	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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Sensor Specifications (from manufacturer)

Sensor On Semi KAF-16801

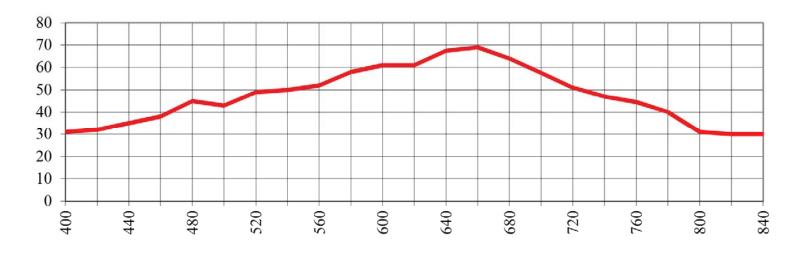
Pixels 4096 x 4096 Sensor Size 36.8 X 36.8 mm Megapixels 16.8 Video Size (inch) 3.3

Pixel Size 9 µm Sensor Diagonal 52 mm

CCD Variants Full Well Capacity 100,000 electrons

Color Options Monochrome **CCD Grades** Standard **CCD Type** Front Illuminated Anti-Blooming None

Sensor Quantum Efficiency (Absolute)



Camera Performance

Typical Maximum Cooling 55°C Below Ambient° Dark Current (typical) <0.01 electrons/pixel/sec at -35°C

Temperature Stability 0.1°C Cooling Method Air (Optional liquid)

Digitization Speed 1 MHz, 8 MHz

Typical System Noise 9 e- RMS @ 1 MHz Non-Linearity <1%

Housing Dimensions 3.7 X 3.7 X 4.77 inches (9.3 X 9.3 X 12.1 cm) Weight 2.8 lbs (1.2 kg)

Focal Plane to Face Plate 30.23 mm

Lens Mounts F-Mount

Interface USB 2.0 **Camera Channels**

Available Shutters 65 mm Shutter MTBF 1000000

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 open: 4A pulse for 100msec. Shutter held open, add 0.22A.



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