3072 x 2048 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.



Applications

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

Features	Benefits
1 MHz and 7 MHz digitization	Fast Image capture with full 16-bit resolution
3072 x 2048 Array with 9 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
F-mount and Canon EOS available	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)

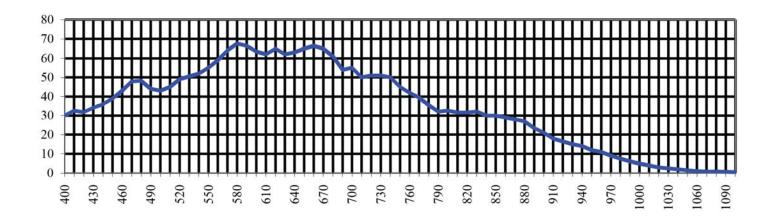
Sensor On Semi KAF-6303E

Pixels3072 x 2048Sensor Size27.6 X 18.4 mmMegapixels6.3κel Size9 μmSensor Diagonal33.1 mmVideo Size (inch)2.1

Color Options Monochrome only CCD Grades Standard

CCD Type Full frame Anti-Blooming NA

Sensor Quantum Efficiency (Absolute)



Camera Performance

Typical Maximum Cooling 55°C below ambient Dark Current (typical) 0.02 electrons/pixel/sec at -35°C

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

Digitization Speed 1 MHz and 7 MHz digitization (software selectable)

Typical System Noise 11-12e- @ 1 MHz; 18-20e- @ 7 MHz Non-Linearity <1%

Focal Plane to Face Plate 0.62" (15.7 mm) (optical)

Weight 2.8 lbs (1.2 kg)

Typical Gain Housing 3.7 X 3.7 X 4.77 inches (9.3 X 9.3 X 12.1 cm)

Lens Mounts Optional Nikon F-mount or Canon EOS

Interface USB 2.0 Camera Channels 1

Available Shutters 45 mm

External Triggering Standard 1,000,000

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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