3056 x 3056 Imaging Array

12 µm Pixel Size

ProLine sets the standards in key performance areas that include: download speeds, cooling, low noise operation, anti-ghosting technology, image quality, and linearity. ProLine download speeds are fast while maintaining low noise frame quality. ProLine achieves outstanding cooling without water assist. simply set the ProLine cooling where you want it and the camera will do the rest -- quickly and without worries. ProLine frame quality is second to none thanks to careful design, implementation, and setup. All cameras are assembled in our clean room under exacting conditions and must pass a battery of tests before being shipped.



Features	Benefits
Up to 8 MHz Digitization Speed	Fast Image capture with full 16-bit resolution
3056 x 3056 Array with 12 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 Nikon F-Mount or Canon 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



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Sensor Specifications (from manufacturer)

Sensor On Semi KAF-09000

 Pixels
 3056 x 3056
 Sensor Size
 36.6 X 36.6 mm
 Megapixels
 9.3

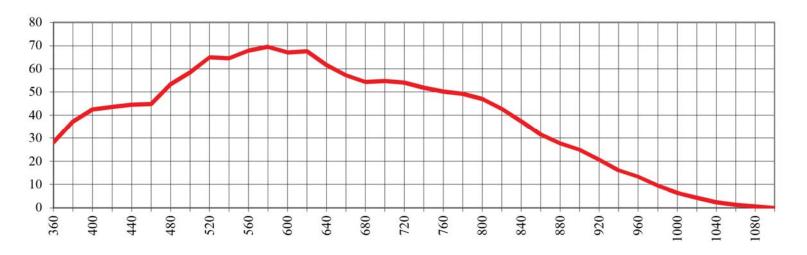
Pixel Size12 μmSensor Diagonal51.7 mmVideo Size (inch)3.2

Full Well Capacity 110000 electrons CCD Variants

Color Options Monochrome CCD Grades Standard

CCD Type Front Illuminated **Anti-Blooming** > 100X saturation

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, 8 MHz

Typical System Noise 10e- @ 1 MHz; 15e- @ 8 MHz Non-Linearity <1%

Housing Dimensions 6.2 X 6.2 X 3.8 inches (15.7 X 15.7 X 9.6 cm) Weight 5.6 lbs (2.5 kg)

Focal Plane to Face Plate 21 mm

Lens Mounts Optional Nikon F-mount or Canon EOS mount

Interface USB 2.0 Camera Channels 1

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%: 4.6A. Shutter open: 4A pulse for 100msec. Shutter held open, add 0.22A.



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