MicroLine CCD Camera

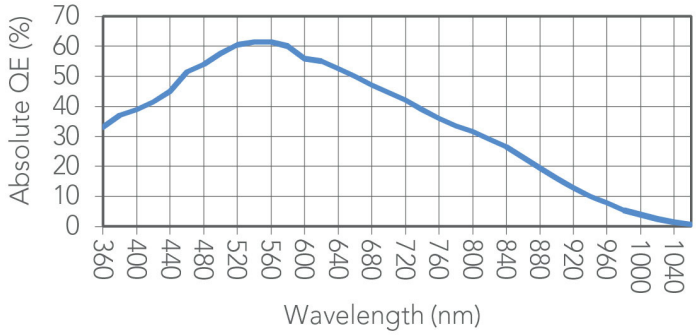
ML50100

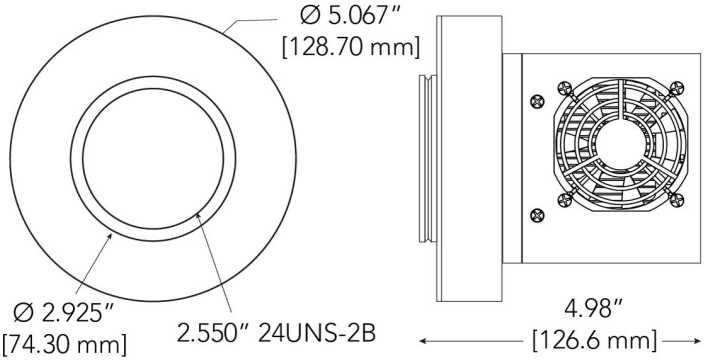
The microlensed KAF-50100 is the result of a year-long collaborative effort between ON Semiconductor and Finger Lakes Instrumentation. Our goal: to create an extremely high resolution sensor with the excellent quantum efficiency of popular full frame sensors such as the KAF-16803 and KAF-8300.

Technical Data

Sensor Type	Front Illuminated CCD
Sensor	ON Semi KAF-50100
Active Pixels	8176 x 6132
Pixel Size (microns)	6 x 6 µm
Imaging Area (Diagonal)	49 X 36.7 mm (61.2 mm)
Full Well Capacity	40300 electrons
Typical_Readout Noise	12 e- @ 8 MHz
Typical Gain	0.57e-/counte-/ADU
Dynamic Range	70.2 dB
Anti-Blooming	800x
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	45°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	.015 eps at -25C
Interface	USB 2.0
Digitization Clock	Two channels at 8 MHz each
Data Bit Depth	16 bit
Non-Linearity	<1%
Channels	2
Shutter	65 mm
Lens Mount	Medium format lens recommended
Subarray Readout	Standard
External Trigger In/Out	Standard
SDK / Software	USB2 / FLIGrab
Weight	4.27 lbs (1.9 kg)
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.

Absolute Quantum Efficiency





See www.flicamera.com for alternate configurations

IDEX HEALTH & SCIENCE | FLI™ Finger Lakes Instrumentation

www.flicamera.com
USA 585-624-3760