Hyperion
HP50100

Though the HP50100 uses a full frame CCD, the HP50100 does not include or support electromechanical shutters. Exposure gating can be controlled via a blocked position in an external filter wheel or via a dark environment and a pulsed light source.
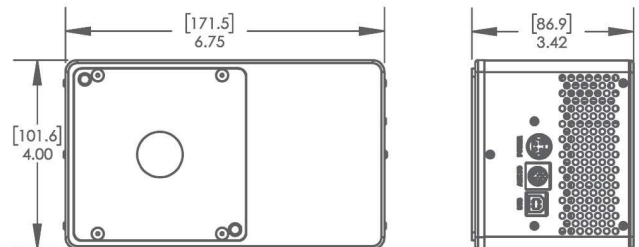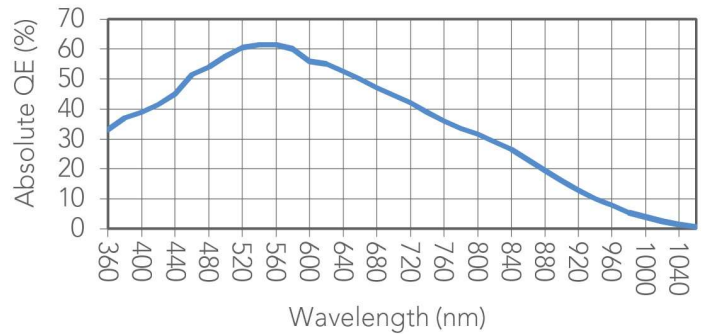

Technical Data

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 (e-)	40300 electrons
Typical_Readout Noise	13 e- @ 11 MHz
Typical Gain	0.57e-/counte-/ADUe-/ADU
Dynamic Range	69.5 dB
Anti-Blooming	800x
Cooling Method	Air (Optional liquid)
Max. Cooling (Air)	45°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	eps at -25C
Interface	USB 2.0
Digitization Clock	Two channels at 11 MHz each
Data Bit Depth	16 bits
Non-Linearity	<1%
Channels	2 (with low and high gain)
Shutter	None
Lens Mount	Medium format lens recommended
Subarray Readout	Standard
External Trigger In/Out	Standard
SDK / Software	USB2 / FLIGrab
Weight	4.0 lbs (1.8 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. TEC at 100%: 4.6A. Shutter open: 4A pulse for 100msec. Shutter held open, add 0.22A.

Absolute Quantum Efficiency

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