

Kepler CCD Camera

DC4320

The Kepler DC4320 offers an outstanding combination of high quantum efficiency, large dynamic range, deep full well capacity, excellent cooling and large imaging area.

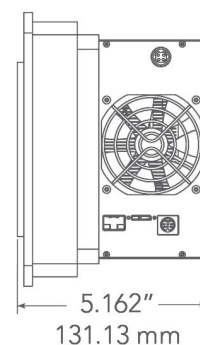
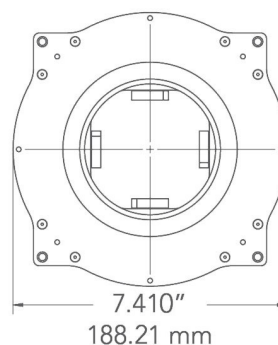
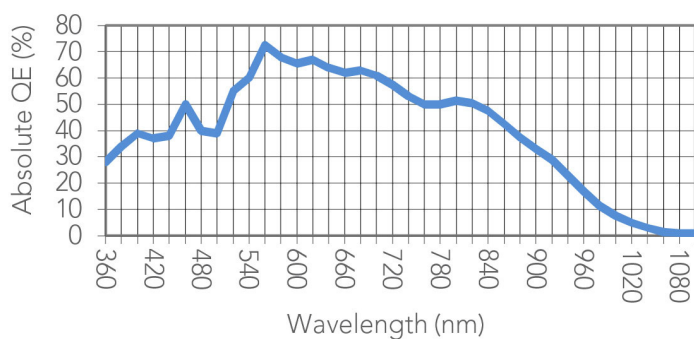
Technical Data

Sensor Type	Front Illuminated CCD
Sensor	ON Semi KAF-4320
Active Pixels	2084 x 2085
Pixel Size (microns)	24 x 24 μm
Imaging Area (Diagonal)	50 X 50 mm (70.7 mm)
Full Well Capacity	500000 electrons
Typical_Readout Noise	20 e- RMS @ 1 MHz per channel
Typical Gain	5.4e-/ADU
Dynamic Range	87.6 dB
Anti-Blooming	None
Cooling Method	Air
Max. Cooling (Air)	60°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	2.4 eps at -35C
Interface	USB 3.0
Digitization Clock	1 MHz and 3 MHz per channel
Data Bit Depth	16
Non-Linearity	<1%
Channels	4
Shutter	Optional 90 mm
Lens Mount	Medium Format Recommended (645)
Subarray Readout	Standard
External Trigger In/Out	Standard
SDK / Software	Kepler / FLI Pilot
Weight	8 lbs (3.6 kg)
Environment	-30°C to 45°C 10% - 90% Relative Humidity
Power	36V (100-240V AC to 36V DC PS Included)



Shown with optional 90mm shutter

Absolute Quantum Efficiency



See www.flicamera.com for alternate configurations