

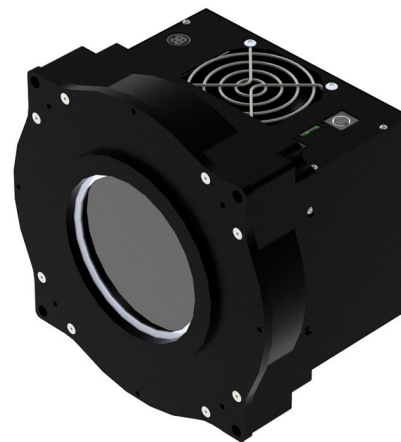
# Kepler CCD Camera

## DC23084

The Kepler DC23084 offers an outstanding combination of high quantum efficiency, large dynamic range, deep full well capacity, excellent cooling and large imaging area.

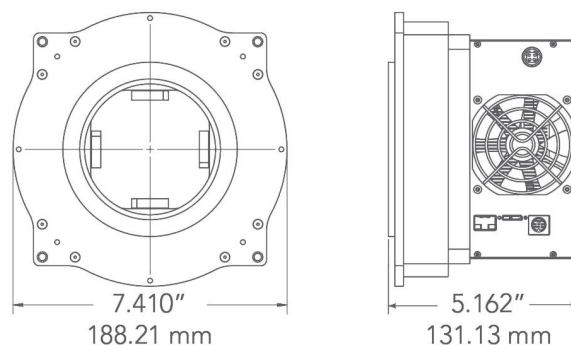
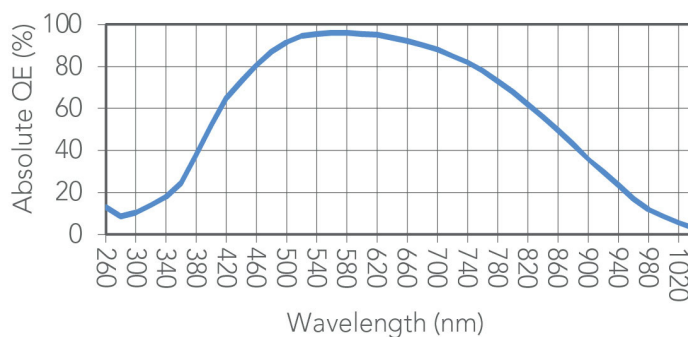
### Technical Data

<b>Sensor Type</b>	Back Illuminated CCD
<b>Sensor</b>	e2v CCD230-84-1-145 (MB)
<b>Active Pixels</b>	4096 x 4096
<b>Pixel Size (microns)</b>	15 x 15 $\mu\text{m}$
<b>Imaging Area (Diagonal)</b>	61.4 X 61.4 mm (86.8 mm)
<b>Full Well Capacity</b>	150000 electrons
<b>Typical_Readout Noise</b>	15 e- RMS @ 500 kHz; 26 e- at 2 MHz
<b>Typical Gain</b>	2.6e-/ADU
<b>Dynamic Range</b>	79.7 dB
<b>Anti-Blooming</b>	None
<b>Cooling Method</b>	Air or Liquid
<b>Max. Cooling (Air)</b>	60°C below ambient
<b>Temperature Stability</b>	0.1°C
<b>Dark Current (typical)</b>	0.1 eps at -30C
<b>Interface</b>	USB 3.0
<b>Digitization Clock</b>	500 kHz and 2 MHz per channel
<b>Data Bit Depth</b>	16
<b>Non-Linearity</b>	<1%
<b>Channels</b>	User selectable 1 or 4
<b>Shutter</b>	optional 90 or 120 mm
<b>Lens Mount</b>	Medium Format Recommended (6x7)
<b>Subarray Readout</b>	Standard
<b>External Trigger In/Out</b>	Standard
<b>SDK / Software</b>	Kepler / FLI Pilot
<b>Weight</b>	8.2 lbs (3.7 kg)
<b>Environment</b>	-30°C to 45°C   10% - 90% Relative Humidity
<b>Power</b>	12V (100-240V AC to 12V DC PS Included)



Shown with optional 90mm shutter

### Absolute Quantum Efficiency



See [www.flicamera.com](http://www.flicamera.com) for alternate configurations