

# Aurora CMOS Camera

## AR461

### 102 Megapixels with 2.7 fps at 16 bits

Designed and manufactured in the USA with the same extreme reliability as the thousands of FLI OEM cameras. Install in remote observatories around the world with complete confidence in a long, trouble-free life. Large format sensor with 90% quantum efficiency and massive 55mm diagonal field of view to increase throughput.

#### Technical Data

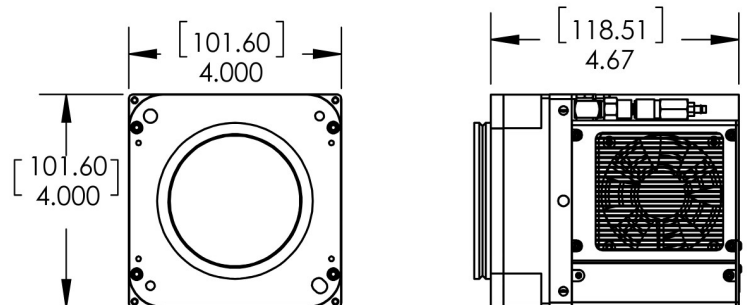
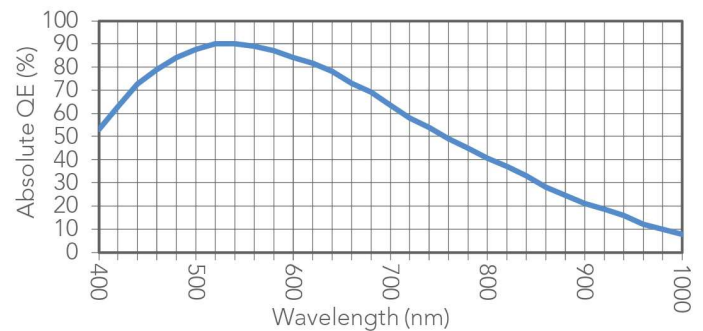
<b>Sensor Type</b>	Back Illuminated CMOS
<b>Sensor</b>	Sony IMX461
<b>Shutter Type</b>	Rolling
<b>Active Pixels</b>	11656 x 8742
<b>Pixel Size (microns)</b>	3.76 x 3.76 $\mu\text{m}$
<b>Imaging Area (Diagonal)</b>	43.8 X 32.9 mm (54.8 mm)
<b>Full Well Capacity (e-)</b>	50000 electrons
<b>Typical Readout Noise</b>	1 e- (rolling)
<b>Dynamic Range</b>	93.6 dB
<b>Frame Rate (fps)</b>	2.7 fps (16 bit)
<b>Cooling Method<sup>1</sup></b>	Air or optional Liquid
<b>Max. Cooling (Air)</b>	50°C below ambient
<b>Temperature Stability</b>	0.1°C
<b>Dark Current (typical)</b>	0.002 eps at -20C
<b>Interface</b>	USB 3.0
<b>Data Bit Depth</b>	12 / 16 bit
<b>Optional Shutter</b>	None
<b>Optional Mounts</b>	Nikon F-Mount
<b>Subarray Readout</b>	Yes
<b>External Trigger In/Out</b>	Yes
<b>SDK / Software</b>	Kepler / FLI Pilot
<b>Weight</b>	2 lbs (.9 kg)

<sup>1</sup>Cameras are plumbed for liquid circulation; External liquid circulation connectors sold separately.



Aurora with FLI Dovetail Flange

#### Absolute Quantum Efficiency



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



Finger Lakes Instrumentation  
[FLIcamera.com](http://FLIcamera.com)  
USA 585-624-3760