

# Aurora CMOS Camera

AR533

PRELIMINARY

## 9 Megapixels with 90% Quantum Efficiency

Designed and manufactured in the USA with 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. High sensitivity CMOS camera with 90% quantum efficiency and 15.9 mm diagonal field of view is an ideal replacement for 1" format CCDs.

### Technical Data

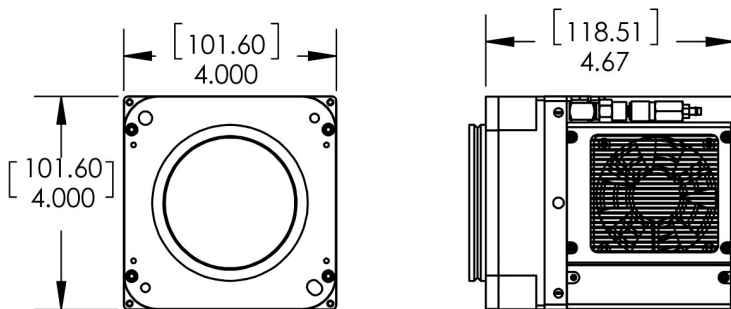
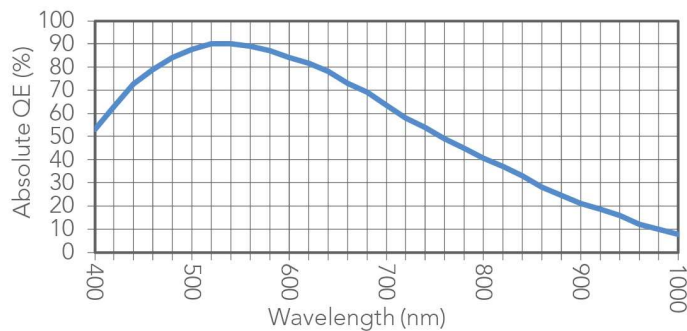
<b>Sensor Type</b>	Back Illuminated CMOS
<b>Sensor</b>	Sony IMX533
<b>Shutter Type</b>	Rolling; Rolling with Global Reset
<b>Active Pixels</b>	3003 x 3003
<b>Pixel Size (microns)</b>	3.76 x 3.76 $\mu\text{m}$
<b>Imaging Area (Diagonal)</b>	11.3 X 11.3 mm (16 mm)
<b>Full Well Capacity (e-)</b>	50000 electrons
<b>Typical Readout Noise</b>	1 e- (rolling)
<b>Dynamic Range</b>	93.6 dB
<b>Frame Rate (fps)</b>	20 fps
<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 / 14 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



MADE IN USA



Finger Lakes Instrumentation  
FLIcamera.com  
USA 585-624-3760