

# Aurora CMOS Camera

AR533

## 9 Megapixels with 90% Quantum Efficiency

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. 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

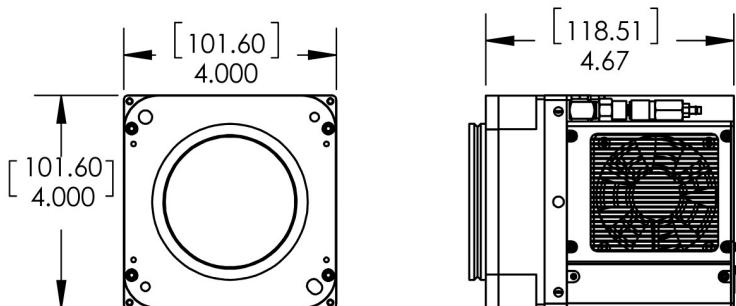
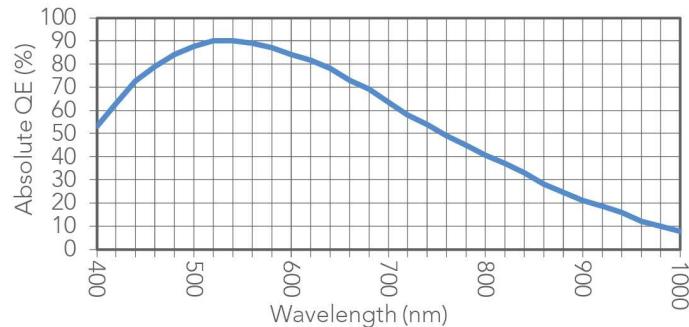
<b>Sensor Type</b>	Back Illuminated CMOS
<b>Sensor</b>	Sony IMX533
<b>Shutter Type</b>	Rolling; Rolling with Global Reset
<b>Active Pixels</b>	3003 x 3003
<b>Pixel Size (microns)</b>	3.76 x 3.76 $\mu$ m
<b>Imaging Area (Diagonal)</b>	11.3 X 11.3 mm (16 mm)
<b>Full Well Capacity (e-)</b>	50000 electrons
<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>	LIBFLI / FLIGrab
<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



\* M A D E I N U S A \*



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