FINGER LAKES INSTRUMENTATION

AURORA CMOS CAMERA

AR533.

DATASHEET flicamera.com/models/ar533

MADE IN USA

PRODUCT PAGE

9 Megapixels with 91% Quantum Efficiency

Made in USA with the same extreme reliability FLI's OEM customers rely on. Install in remote observatories around the world with complete confidence in a long, trouble-free life. High sensitivity CMOS camera with 91% quantum efficiency and 16 mm diagonal field of view is an ideal replacement for 1" format CCDs.



Aurora with FLI Dovetail Flange

KEY SPECIFICATIONS

SENSOR	SIZE (MM)	RESOLUTION	PIXEL SIZE
Sony IMX533	11.3 X 11.3 mm (16 mm)	3003 x 3003	3.76 x 3.76 µm

FULL WELL	READ NOISE	DARK CURRENT	PEAK Q.E.
50000 electrons	1 e- (rolling)	0.002 eps at -20C	91%

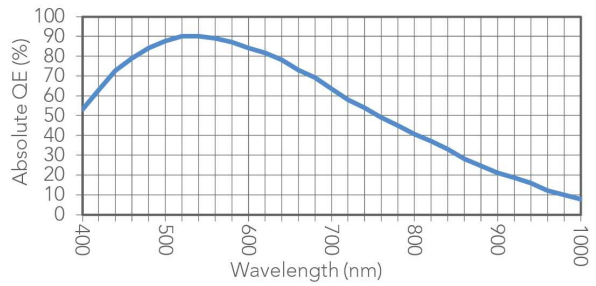
TECHNICAL DATA

Sensor Type	Back Illuminated CMOS	**Sensor**	Sony IMX533
Shutter Type	Rolling; Rolling with Global Reset	**Active Pixels**	3003 x 3003
Pixel Size (microns)	3.76 x 3.76 µm	**Imaging Area (Diagonal)**	11.3 X 11.3 mm (16 mm)
Full Well Capacity (e-)	50000 electrons	**Typical Readout Noise**	1 e- (rolling)
Dynamic Range	93.6 dB	**Frame Rate (fps)**	20 fps
Cooling Method	Air or optional Liquid [1]	**Max. Cooling (Air)**	50°C below ambient
Temperature Stability	0.1°C	**Dark Current (typical)**	0.002 eps at -20C
Interface	USB 3.0	**Data Bit Depth**	12 / 14 bit
Optional Shutter	None	**Optional Mounts**	Nikon F-Mount
Subarray Readout	Yes	**External Trigger In/Out**	Yes

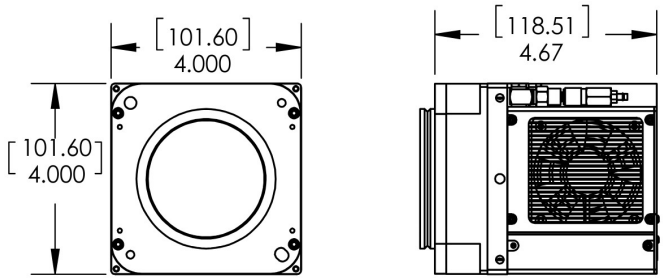
SDK / Software	LIBFLI / FLIGrab	**Weight**	2 lbs (.9 kg)
Peak QE	91%		

TECHNICAL FIGURES

Absolute quantum efficiency



Mechanical outline



NOTES AND OPERATING CONDITIONS

1 Cameras are plumbed for liquid circulation; External liquid circulation connectors sold separately.

See FLIcamera.com for alternate configurations

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Request a quote for AR533

REQUEST A QUOTE

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