FINGER LAKES INSTRUMENTATION

AURORA CMOS CAMERA

AR461.

DATASHEET flicamera.com/models/ar461

PRODUCT PAGE

MADE IN USA

102 Megapixels with 2.7 fps at 16 bits

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. Large format sensor with 91% quantum efficiency and massive 54.8 mm diagonal field of view to increase throughput.



Aurora with FLI Dovetail Flange

KEY SPECIFICATIONS

SENSOR	SIZE (MM)	RESOLUTION	PIXEL SIZE
Sony IMX461	43.8 X 32.9 mm (54.8 mm)	11656 x 8742	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

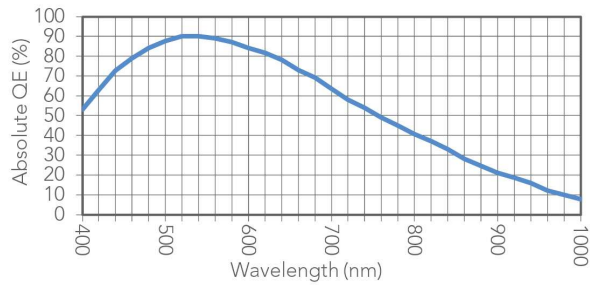
Sensor Type	Back Illuminated CMOS
Shutter Type	Rolling
Pixel Size (microns)	3.76 x 3.76 µm
Full Well Capacity (e-)	50000 electrons
Dynamic Range	93.6 dB
Cooling Method	Air or optional Liquid [1]
Temperature Stability	0.1°C
Interface	USB 3.0
Optional Shutter	None
Subarray Readout	Yes

Sensor	Sony IMX461
Active Pixels	11656 x 8742
Imaging Area (Diagonal)	43.8 X 32.9 mm (54.8 mm)
Typical Readout Noise	1 e- (rolling)
Frame Rate (fps)	2.7 fps (16 bit)
Max. Cooling (Air)	50°C below ambient
Dark Current (typical)	0.002 eps at -20C
Data Bit Depth	12 / 16 bit
Optional Mounts	Nikon F-Mount
External Trigger In/Out	Yes

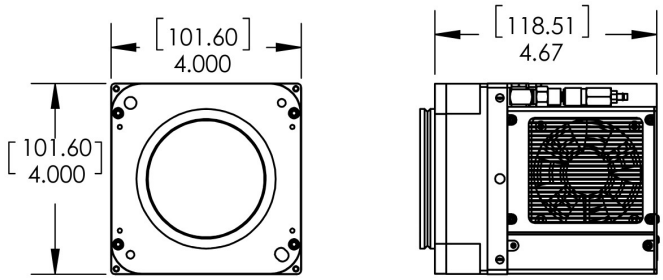
SDK / Software	LIBFLI / FLIGrab	**Weight**	2 lbs (.9 kg)
Peak QE	91%		

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 AR461

REQUEST A QUOTE

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