FINGER LAKES INSTRUMENTATION

REVELATION CMOS CAMERA

RV533.

DATASHEET flicamera.com/models/rv533

PRODUCT PAGE

MADE IN USA

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.



Revelation 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%

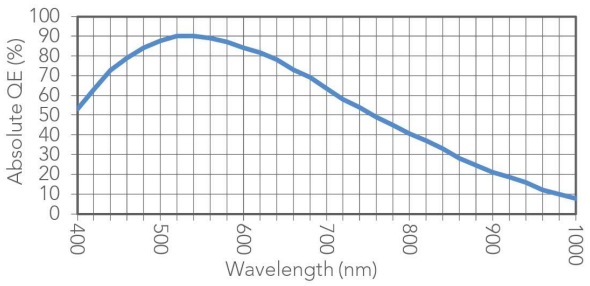
TECHNICAL DATA

Sensor Type	Back Illuminated CMOS
Shutter Type	Rolling; Rolling with Global Reset
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
SDK / Software	LIBFLI / FLIGrab
Peak QE	91%

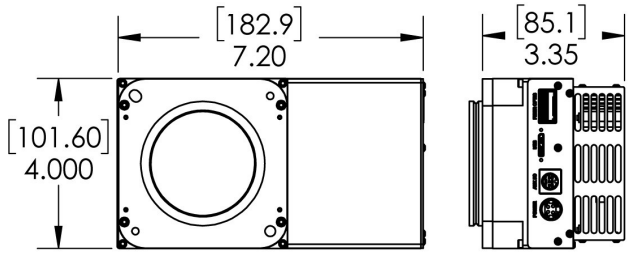
Sensor	Sony IMX533
Active Pixels	3003 x 3003
Imaging Area (Diagonal)	11.3 X 11.3 mm (16 mm)
Typical Readout Noise	1 e- (rolling)
Frame Rate (fps)	20 fps
Max. Cooling (Air)	50°C below ambient
Dark Current (typical)	0.002 eps at -20C
Data Bit Depth	12 / 14 bit
Optional Mounts	Nikon F-Mount
External Trigger In/Out	Yes
Weight	2 lbs (.9 kg)

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 RV533

REQUEST A QUOTE

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