

Revelation CMOS Camera

RV533

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

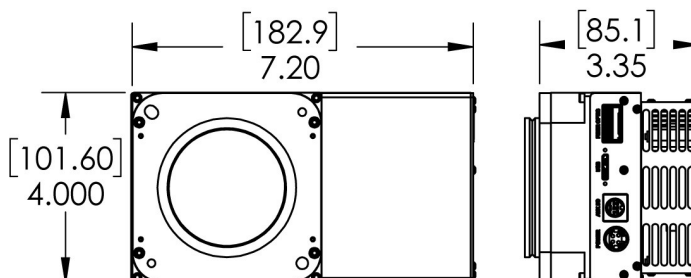
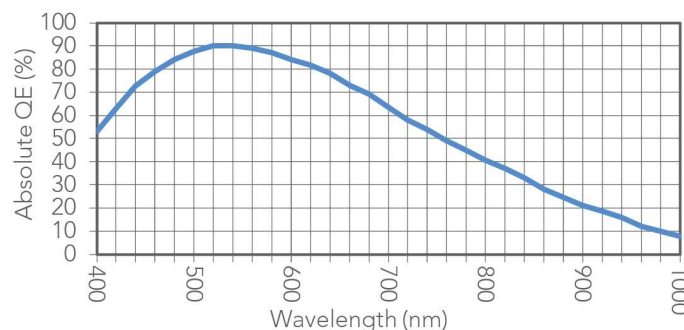
Sensor Type	Back Illuminated CMOS
Sensor	Sony IMX533
Shutter Type	Rolling; Rolling with Global Reset
Active Pixels	3003 x 3003
Pixel Size (microns)	3.76 x 3.76 μm
Imaging Area (Diagonal)	11.3 X 11.3 mm (16 mm)
Full Well Capacity (e-)	50000 electrons
Typical Readout Noise	1 e- (rolling)
Dynamic Range	93.6 dB
Frame Rate (fps)	20 fps
Cooling Method¹	Air or optional Liquid
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	Kepler / FLI Pilot
Weight	2 lbs (.9 kg)

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



Revelation with FLI Dovetail Flange

Absolute Quantum Efficiency



See FLIcamera.com for alternate configurations



Finger Lakes Instrumentation
FLIcamera.com
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