Aurora CMOS Camera

AR455

61.2 Megapixels at Up to 4 fps

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. Full frame sensor with 90% quantum efficiency and massive 43.1mm diagonal field of view to increase throughput.

Technical Data

Sensor Type Back Illuminated CMOS

Sensor Sony IMX455

Shutter Type Rolling; Rolling with Global Reset

 Active Pixels
 9568 x 6380

 Pixel Size (microns)
 3.76 x 3.76 μm

Imaging Area (Diagonal) 36 X 24 mm (43.2 mm)

Full Well Capacity (e-)50000 electronsTypical Readout Noise1 e- (rolling)Dynamic Range93.6 dBFrame Rate (fps)4 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 / 16 bit

Optional Shutter None

Optional Mounts Nikon F-Mount

Subarray Readout Yes
External Trigger In/Out Yes

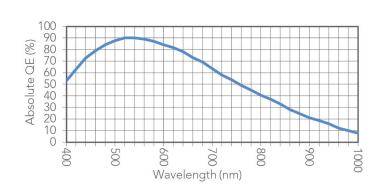
SDK / Software Kepler / FLI Pilot
Weight 2 lbs (.9 kg)

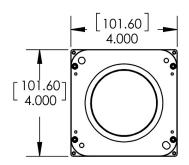
¹Cameras are plumbed for liquid circulation; External liquid circulation connectors sold separately.

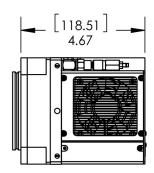


Aurora with FLI Dovetail Flange

Absolute Quantum Efficiency







See FLIcamera.com for alternate configurations





Finger Lakes Instrumentation FLIcamera.com USA 585-624-3760