Kepler CMOS Camera

KL400 FI

1.5 e- Noise RMS

The Kepler KL400 FI provides high sensitivity, ultra-low noise with high frame rates, all at a game-changing price to performance ratio. The front illuminated version does not have microlenses.

Technical Data

Sensor Type Front Illuminated CMOS
Sensor GPixel GSense400

 Shutter Type
 Rolling

 Active Pixels
 2048 x 2048

 Pixel Size (microns)
 11 x 11 μm

Imaging Area (Diagonal) 22.5 X 22.5 mm (31.8 mm)

Full Well Capacity (e-) 120000 electrons

Typical Readout Noise 1.5 e-Dynamic Range 97.7 dB

Frame Rate 24 fps (Rolling HDR)

Cooling Method¹ Air and Liquid

Max. Cooling (Air) 45°C below ambient

Temperature Stability 0.1°C

Dark Current (typical) 0.15 eps at -20C

Interface USB 3.0 (Optional QSFP²)

Data Bit Depth16 bit3Optional Shutter45 mm

Optional Mounts Nikon or Canon

Subarray Readout Standard

External Trigger In/Out Standard

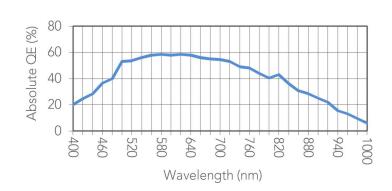
SDK / Software Kepler SDK (Open Source) /

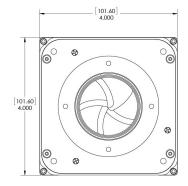
Weight 3 lbs (1.3 kg)

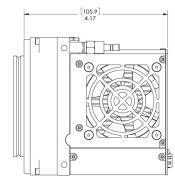


Also available with 45mm shutter

Absolute Quantum Efficiency







See www.flicamera.com for alternate configurations



¹Liquid circulation connectors sold separately

² QSFP = Quad Small Form factor Pluggable: high speed fiber optic interface. Support for KL400 in Q2 2020.

³ 16-bit data merged from two 12 bit converters