Kepler CMOS Camera

KL2020 BI PRELIMINARY

The Ultimate in Speed

The Kepler KL2020 cooled scientific CMOS camera provides high sensitivity, low noise, and high frame rates, all at a game-changing price to performance ratio.

Technical Data

Sensor Type Back Illuminated CMOS
Sensor GPixel GSense2020

 Shutter Type
 Rolling

 Active Pixels
 2048 x 2048

 Pixel Size (microns)
 6.5 x 6.5 µm

Imaging Area (Diagonal) 13.3 X 13.3 mm (18.8 mm)

Full Well Capacity 54000 electrons

Typical Readout Noise 1.6 e-/ 1.2 e- (2-CMS)

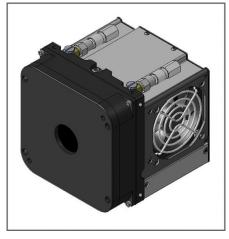
Dynamic Range90.2 dBFrame Rate43 fps (12 bit)Cooling Method¹Air and LiquidMax. Cooling (Air)50°C below ambient

Temperature Stability 0.1°C

Dark Current (typical) 0.2 eps at -20C

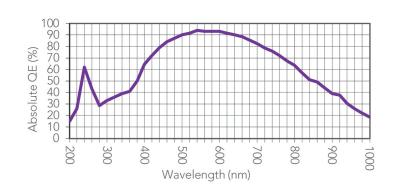
InterfaceUSB 3.0Data Bit Depth16 bit²Optional Shutter25mmOptional MountsC-mountSubarray ReadoutYesExternal Trigger In/OutYes

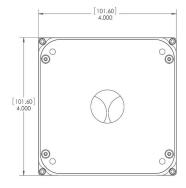
SDK / Software Kepler / FLI Pilot
Weight 3 lbs (1.3 kg)

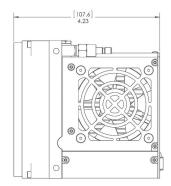


KL2020 with air & liquid cooling

Absolute Quantum Efficiency







See www.flicamera.com for alternate configurations



¹Liquid circulation connectors sold separately

³ 16-bit data merged from two 12 bit converters

² QSFP = Quad Small Form factor Pluggable: high speed fiber optic interface