

# Kepler CMOS Camera

## KL400 BI

**95% Peak QE, 1.6 e- Noise RMS**

The Kepler KL400 provides ultra-high sensitivity, ultra-low noise with high frame rates, all at a game-changing price to performance ratio.

### Technical Data

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Sensor Type</b>                | Back Illuminated CMOS    |
| <b>Sensor</b>                     | GPixel GSense400 BI      |
| <b>Shutter Type</b>               | Rolling                  |
| <b>Active Pixels</b>              | 2048 x 2048              |
| <b>Pixel Size (microns)</b>       | 11 x 11 $\mu\text{m}$    |
| <b>Imaging Area (Diagonal)</b>    | 22.5 X 22.5 mm (31.9 mm) |
| <b>Full Well Capacity (e-)</b>    | 90000 electrons          |
| <b>Typical Readout Noise</b>      | 1.6 e-                   |
| <b>Dynamic Range</b>              | 94.6 dB                  |
| <b>Frame Rate (fps)</b>           | 24 fps (Rolling HDR)     |
| <b>Cooling Method<sup>1</sup></b> | Air and Liquid           |
| <b>Max. Cooling (Air)</b>         | 45°C below ambient       |
| <b>Temperature Stability</b>      | 0.1°C                    |
| <b>Dark Current (typical)</b>     | 0.4 eps at -20C          |
| <b>Interface</b>                  | USB 3.0                  |
| <b>Data Bit Depth</b>             | 16 bit <sup>2</sup>      |
| <b>Optional Shutter</b>           | 45 mm                    |
| <b>Optional Mounts</b>            | Nikon or Canon           |
| <b>Subarray Readout</b>           | Standard                 |
| <b>External Trigger In/Out</b>    | Standard                 |
| <b>SDK / Software</b>             | Kepler / FLI Pilot       |
| <b>Weight</b>                     | 3 lbs (1.3 kg)           |

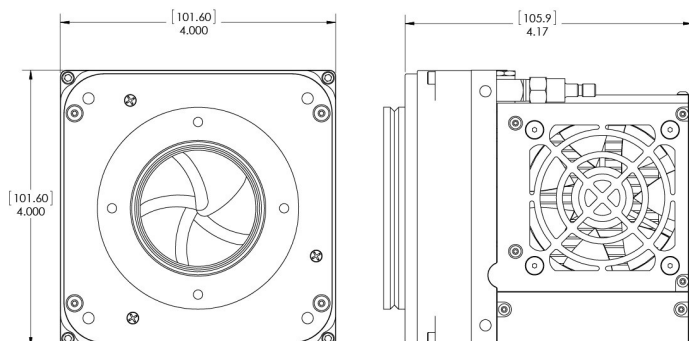
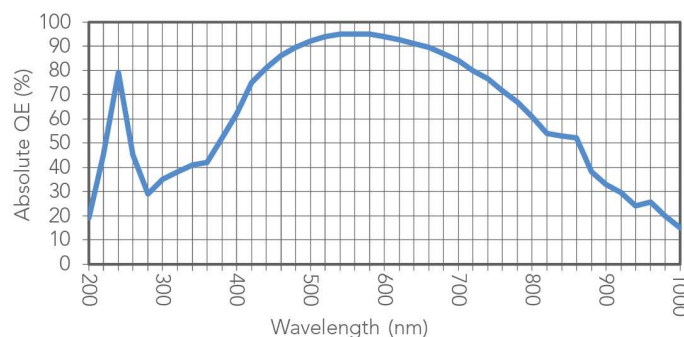
<sup>1</sup> Liquid circulation connectors sold separately

<sup>2</sup> 16-bit data merged from two 12 bit conversions



KL400 with Optional Liquid Cooling Connectors

### Absolute Quantum Efficiency



See [FLIcamera.com](http://FLIcamera.com) for alternate configurations



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