



LUCIA QI825 Camera

Improves your image

- Sensor cooling
- Sony CCD 2/3" monochrome sensor
- CCD Array 1360 x 1024
- 25 fps at full resolution
- up to 60 min exposure time
- USB 3.0 digital Interface
- 1", C-mount optical interface



Full Camera Specification

- **Sensor Type:** Sony ICX-825 Scientific Interline CCD monochrome
- **CCD Array:** 1360 x 1024
- **Pixel Size:** 6.45 μm x 6.45 μm
- **Active Area:** 8.8 mm x 6.6 mm (11 mm diagonal)
- **Peak Quantum Efficiency:** 75% at 600 nm
- **Full Well Capacity:** >15,000e⁻ single pixel
>25,000e⁻ with on-chip binning
- **Digital Output:** 16 bit at 650 kHz
14 bit at 50 MHz
- **Digitization Rate:** USB3 – 50 MHz high frame rate, 650 kHz low noise mode
USB2 – 17.5 MHz high frame rate, 650 kHz low noise mode
- **Read Noise (typical):** 50 MHz – < 7 e⁻ RMS
650 kHz – < 5 e⁻ RMS
- **Frame Rate:** 25 fps at full resolution
50 MHz 40 fps binned 2x2
- **Exposure Time Range:** 25 μs – 60 min
- **Supported Binning Modes:** 1x1, 2x2, 4x4, 6x6, 8x8, 12x12, 16x16, 24x24
- **Dark Current Rate (typical):** 0.0005 e/p/s at -20C regulated
- **Sensor Cooling:** -15° C stabilized at 22° C ambient
Thermoelectric cooling with forced air
- **Operating Systems/Platforms:** Windows 7 (64 bit), Windows 8 (64 bit), and Windows 10 (64 bit)
- **Digital Interface:** USB 3.0 (USB 2 compatible at reduced max fps)
- **Optical Interface:** 1", C-mount optical format
- **Mounting Hole Thread Size:** 1/4" - 20 thread, 4 sides
- **Camera Dimensions:** 98.4 mm x 76 mm x 76 mm (length x width x height)
- **Weight:** 0.72 kg, 1.55 lb
- **Power Requirement:** 7V DC, 5A