



Acuros[®] CQD[®] **1280L USB3 SWIR Camera**

The Acuros® CQD® L-Series SWIR cameras feature large sensor area, low angular dependence and a short working distance for highly divergent emitters and collimated beams. Acuros cameras deliver high resolution, high dynamic range and very high detectivity imaging from 400 nm to 1700 nm.

The L-Series cameras are designed for use in laser beam diagnostics, laser beam imaging and laser alignment applications.

| Specifications: | |
|-----------------------------------|---|
| Electro-Optical Specifications: | |
| Sensor | Acuros [®] CQD [®] sensor |
| Temperature stabilization | Single-stage thermo-electric cooler |
| Sensor array format | 1280 x 1024 |
| Resolution | 1.31 megapixels |
| Spectral band | 400 nm - 1700 nm |
| Array size | 19.2 mm x 15.4 mm, 24.6 mm diagonal |
| Pixel pitch | 15 μm x 15μm |
| Max frame rate at full resolution | 88 fps (8, 10, 12, 14 bit) |
| Pixel operability | 99.9% typical, 99.75% min |
| Bit depth | 8, 10, 12, 14 bit selectable |
| Integration type | Snapshot global shutter |
| Trigger | External TTL |
| Integration time | 10 µsec to 4 sec |
| Dynamic range | 70 dB typical |
| Windowing & windowing frame rate | Array centered. Scales inversely to window size |
| Laser beam fringeless operation | Yes |
| Binning arrays | 2 x 2, 4 x 4 |
| Non-uniformity correction | 2-point non-uniformity correction |
| Temporal dark noise | 65e ⁻ typical (high gain) |
| Quantum efficiency | See typical QE curve. |

Acuros-1280-USB3-003

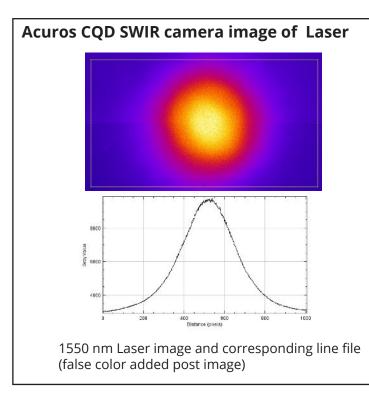


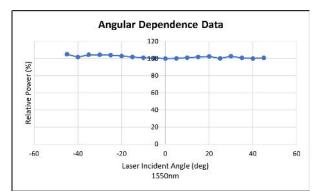
| Specifications: | | |
|----------------------------|---|----------------|
| Environmental & powe | er specifications, typical performance | |
| Operating case temperature | -20 °C to +55 °C | automan |
| Power consumption | 6.5 - 12 W depending on TEC settings | a |
| Power supply voltage | 6-16 VDC | |
| Regulatory compliance | CE mark | |
| Mechanical specificati | ons | C |
| Dimensions excluding lens | 6.1 x 6.1 x 8.2 cm | |
| Weight excluding lens | 508 grams | |
| Lens mounts | Standard mount. Inquire for other options. | |
| Power connector | Hirose 12-pin, HR10A-10R-12PB (71) | |
| Trigger connector | BNC | |
| Software and user inte | erface | 9 |
| Software development kit | Windows GUI & Pleora eBUS SDK (Linux, Windows, MacOS) | |
| GenICam compliance | Yes | 8. mar (|
| Interface | USB3 Vision | Hate in U.S.A. |
| Export compliance | | |
| US export designation | EAR-99. No license required for lawful export | |
| Ordering | | US |
| Part numbers | 1280L: Acuros-1280-USB-003 | |

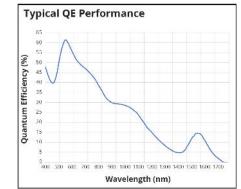




/ision face



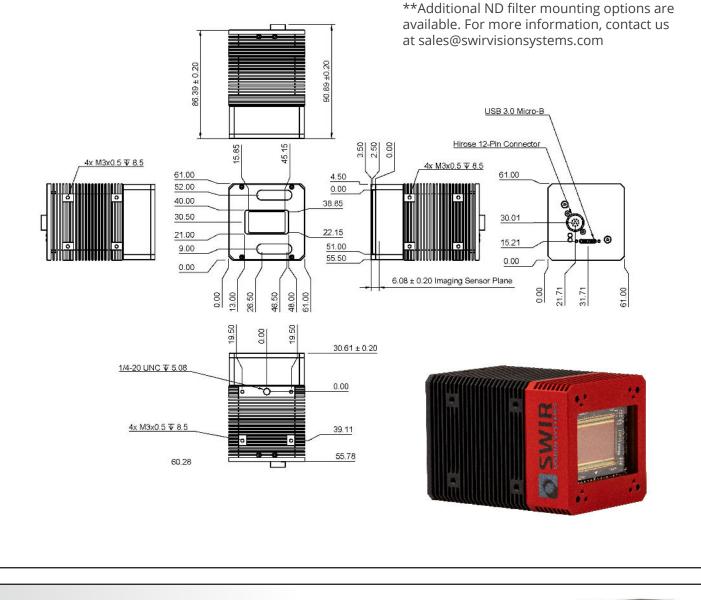


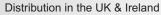


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Mechanical Drawings







Characterisation, Measurement & Analysis

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