



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

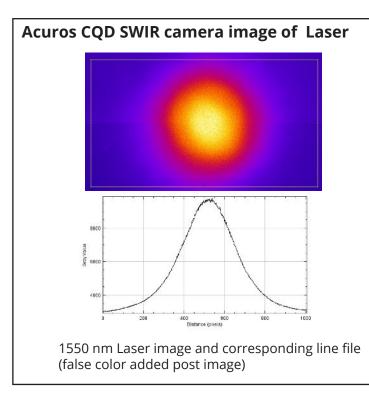


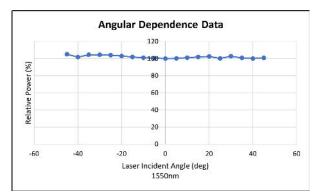
Specifications:		
Environmental & powe	er specifications, typical performance	
Operating case temperature	-20 °C to +55 °C	automan
Power consumption	6.5 - 12 W depending on TEC settings	a
Power supply voltage	6-16 VDC	
Regulatory compliance	CE mark	
Mechanical specificati	ons	C
Dimensions excluding lens	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	

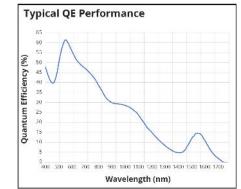




/ision face



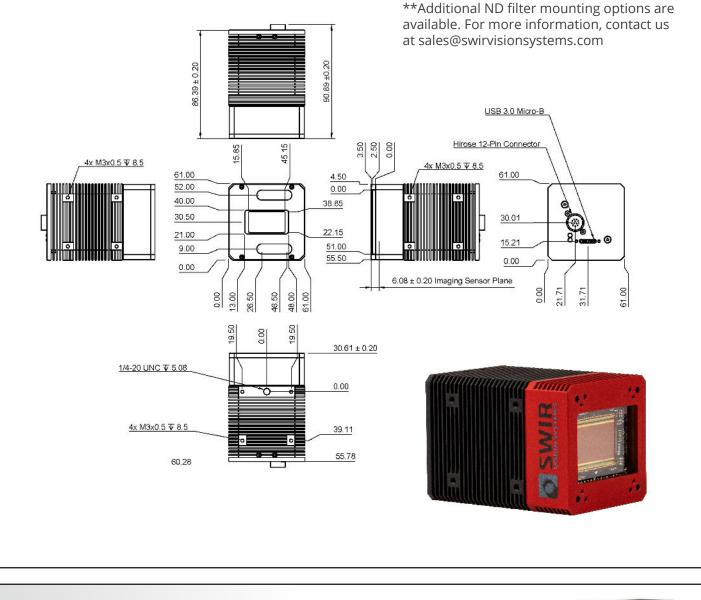


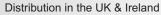


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Mechanical Drawings







Characterisation, Measurement & Analysis

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NGiG

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