

Coherent® Lasercam™ USB Laser Beam Profiler 1282870 | 2/3" Format

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£5,337¹⁵

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1 Prices shown are exclusive of VAT/local taxes

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SPECIFICATIONS

Physical & Mechanical Properties

68.1 x 79.3 x 40.9 (with LDFP)

Dimensions (mm):

110 (without cable)

Weight (g):

Dimensional Accuracy:
±1% (typical), ±5% max (over entire spectral and dimensional range)

Optical Properties	
Beam Diameter, 1/e² (mm):	Recommended: 0.20mm min, 6.0mm max
Spectral Range:	300 - 1100nm (400 - 1100nm with LDFP)
CW Saturation:	5 mW/cm ² (at 632.8nm with LDFP)
Pulsed Saturation:	0.15 mJ/cm ² (at 1.06µm with LDFP)
Peak Intensity:	Recommended: 75-95% of camera saturation
Damage Threshold, By Design: ☐	32 mJ/cm ² @ 1.06µm without Low Distortion Faceplate

Sensor	
Sensing Area, H x V (mm):	8.3 x 6.6
Gamma:	1.00
Sensor Format:	2/3"
Frame Rate:	27Hz (Live Mode), 10Hz (with calculations)
Exposure Time:	Fixed at 10ms

Electrical	
Signal to Noise S/N Ratio (dB):	>60
Gain (dB):	Gain is factory set for optimum linear dynamic range, not user adjustable
Peak Noise (nW/cm²):	24 (at 632.8nm)
Pulse Trigger:	TTL, rising or falling edge

Hardware & Interface Connectivity	
Operating System:	Windows®

Threading & Mounting	
Mount:	C-Mount

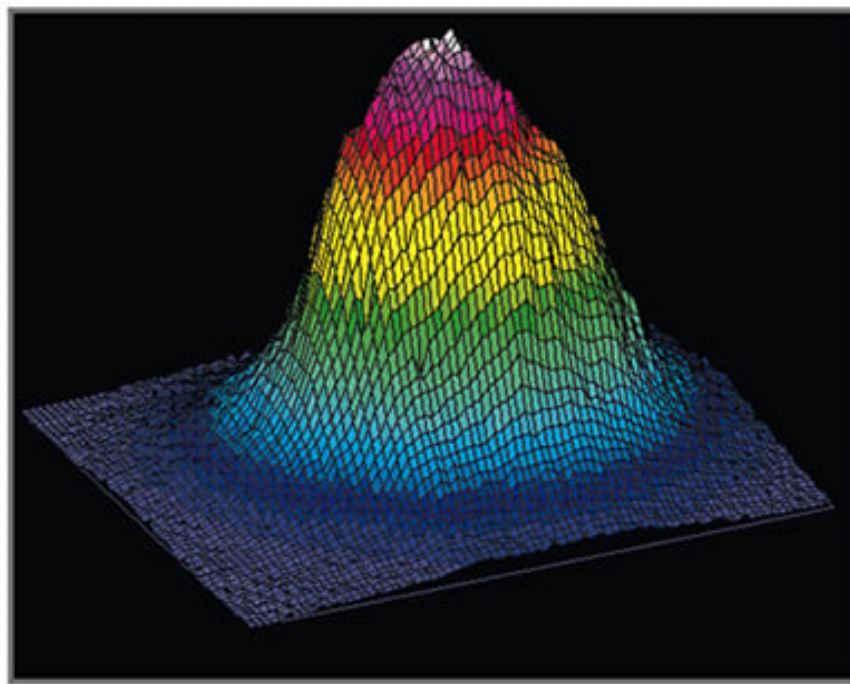
Environmental & Durability Factors	
Operating Temperature (°C):	-20 to 60

Regulatory Compliance	
RoHS 2015:	Exempt
Reach 224:	Contains SVHC(s)
Certificate of Conformance:	View

PRODUCT DETAILS

- 12 and 14-bit Digital USB 2.0 Interface Options
 - High Sensitivity and Dynamic Range
 - Intuitive BeamView™ Software Included
- The Coherent® Lasercam™ Beam Profiler features excellent signal-to-noise ratio and linear response for accurate pulsed as well as CW laser beam dimension and uniformity measurements. The new BeamView™ 4.4 interface software features TCP/IP control and NI LabVIEW™ library suite, enabling efficient and smooth integration of beam profiling into any application. Examples of analysis functions that can be performed on the acquired beam images include: beam centroid location, beam peak intensity position, pointing stability, total relative power/energy in beam, peak power/energy density of beam, beam divergence, ellipticity, beam intensity uniformity, Gaussian fit, beam diameter/width based on second moments or user selectable percentage of peak/total energy.

TECHNICAL INFORMATION



Intuitive Software Interface

