

Coherent® Lasercam™ USB Laser Beam Profiler 1282868 | 1/2" Format

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£3,592⁰⁰

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Product Downloads

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: 0.15mm min, 4.0mm max	
Spectral Range: 190 - 1100nm (400 - 1100nm with LDFP)	
CW Saturation: 13 mW/cm ² (at 632.8nm with LDFP)	
Pulsed Saturation: 0.4 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): 5.9 x 4.8	
Gamma: 1.00	
Sensor Format: 1/2"	
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	

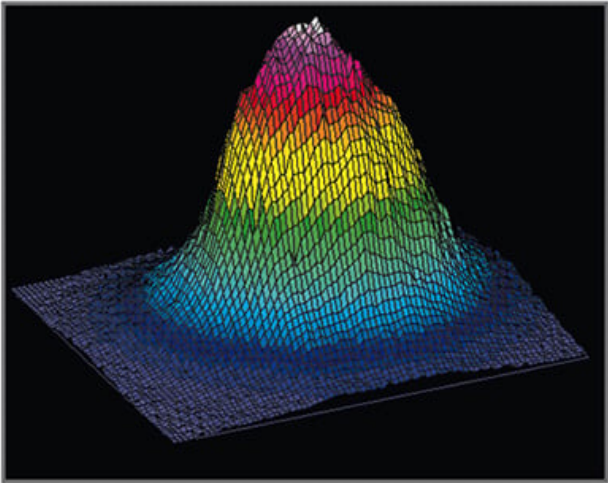
Environmental & Durability Factors	
Operating Temperature (°C): -20 to 60	

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

