

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

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+

C\$6,286⁰⁰

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Physical & Mechanical Properties

Dimensions (mm):	
68.1 x 79.3 x 40.9 (with LDFFP)	
Weight (g):	
110 (without cable)	

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

Optical Properties

Beam Diameter, 1/e ² (mm):	
Recommended: 0.15mm min, 4.0mm max	

	Spectral Range: 190 - 1100nm (400 - 1100nm with LDFFP)
	CW Saturation: 13 mW/cm ² (at 632.8nm with LDFFP)
	Pulsed Saturation: 0.4 mJ/cm ² (at 1.06µm with LDFFP)
	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

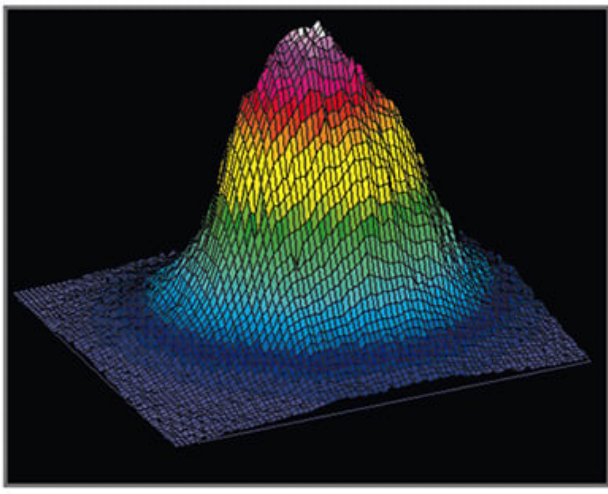
Regulatory Compliance	
Exempt	RoHS 2015:
Contains SVHC(s)	Reach 224:
View	Certificate of Conformance:

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

