

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

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⊖ 1 ⊕ C\$8,106⁰⁰

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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/e² (mm):
Recommended: 0.20mm min, 6.0mm max

Spectral Range:
300 - 1100nm (400 - 1100nm with LDFFP)

CW Saturation:
5 mW/cm² (at 632.8nm with LDFFP)

Pulsed Saturation:
0.15 mJ/cm² (at 1.06µm with LDFFP)

Peak Intensity:
Recommended: 75-95% of camera saturation

Damage Threshold, By Design:
32 mJ/cm² @ 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\(s\)](#)

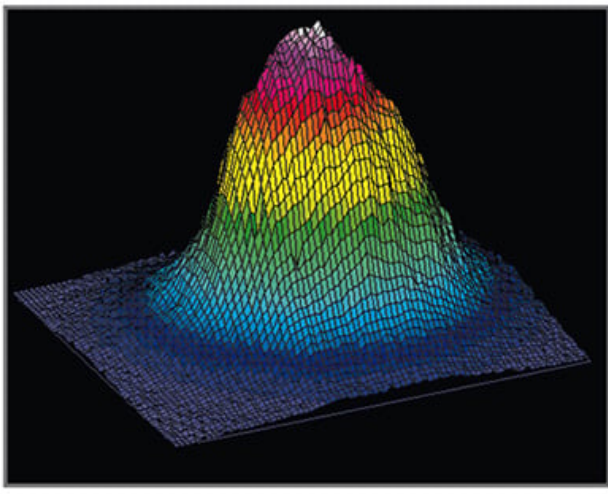
Certificate of Conformance:
[View](#)

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

