

Edmund Optics Beam Profiler 4M



Edmund Optics Beam Profiler 4M, #11-045

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General

Filters Included :
Neutral Density, OD 4.0 (x1)

Input Beam Requirements:
Minimum 55µm (10 x 10 pixels)

Software:
USB Included

Physical & Mechanical Properties

Dimensions (mm):
61 x 81.1 x 19.7

138 g **Weight (g):**

Contact us **Dimensional Accuracy:**

Optical Properties

55um - 11mm **Beam Diameter, 1/e² (mm):**

350 - 1150 **Wavelength Range (nm):**

350 to 1150 nm **Spectral Range:**

10 W/cm² (at 1064 nm with ND4 filter) **CW Saturation:**

0.03 mJ/cm² without ND filters. 0.1 J/cm² with filter **Pulsed Saturation:**

Auto adjusted to 85% of camera saturation level **Peak Intensity:**

0.1 J/cm² @ 1064 with ND4 filter **Damage Threshold, By Design:**

External trigger recommended for repetition rates below 250 Hz **Minimum Stimulation, Pulsed:**

55um - 11mm **Beam Diameter (μm):**

Sensor

6.20 (at full frame) **Frame Rate (fps):**

5.5 x 5.5 **Pixel Size, H x V (μm):**

2048 x 2048 (4.2 MegaPixel) **Pixels (H x V):**

11.3 x 11.3 **Sensing Area, H x V (mm):**

N/A **Gamma:**

1" **Sensor Format:**

6.2 Hz 4.2 MPixel (Full frame), 32 Hz 0.066 Mpixel (256 x 256) **Frame Rate:**

0.06 to 200 ms **Exposure Time:**

Electrical

1000:1 (60 dB) **Signal to Noise S/N Ratio (dB):**

User Adjustable **Gain (dB):**

Contact us **Peak Noise (nW/cm²):**

1.1 to 24 V, rising edge **Pulse Trigger:**

1 W with ND filter **Maximum Power (W):**

Hardware & Interface Connectivity

Computer Interface:
Displays: 2D, 3D, XY and Beam Tracking
Dia. Definitions: D4σ, 1/e² (13.5%), FWHM(50%), 86% of the aperture, Buffer Controls: Open File, Save Current Data, Save All Data, Previous/Next Image, Clear, Animate, Report: 2D, 3D, XY, Measures and Parameters.
Print screen tool in BMP (2D and 3D)

Windows **Operating System:**

Threading & Mounting

1" x 32 TPI (C-Mount) **Mount:**

Environmental & Durability Factors

18 to 28 **Operating Temperature (°C):**

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 242:**

Canada **Country of Origin:**

Edmund Optics India Private Limited **Imported By:**

Product Details

- High Resolution for Accurate Small Beam Profile Measurements
- Large Area Sensor for Large Beam Profiling
- USB 3.0 for the Fastest Transfer Rates

Edmund Optics® Beam Profilers are designed to measure a wide range of laser beam sizes, providing information to optimize laser system operation. These laser beam profilers feature high resolution and large area sensors to ensure accurate profiling of both small and large laser beams. Available in two sizes, beam profilers are threaded for 1" x 32 TPI mounting, making them compatible with C-Mount accessories. Edmund Optics Beam Profilers feature an external trigger to synchronize the camera with a pulsed laser as well as USB 2.0 and 3.0 compatibility for the industry's fastest transfer rates. Intuitive beam analysis software with multiple display options (2D, 3D, and XY), as well as many control tools such as a background subtraction function and Gaussian fit, is also included with each beam profiler.

Note: Software driver available for download. Products are compatible with LabVIEW.
