

Edmund Optics Beam Profiler 4M



Edmund Optics Beam Profiler 4M, #11-045

Stock **#11-045** **3 In Stock**

⊖ 1 ⊕ C\$9,030⁰⁰

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Product Downloads

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

Weight (g):

138 g

Dimensional Accuracy:

Contact us

Optical Properties

Beam Diameter, 1/e² (mm):

55um - 11mm

Wavelength Range (nm):

350 - 1150

Spectral Range:

350 to 1150 nm

CW Saturation:

10 W/cm² (at 1064 nm with ND4 filter)

Pulsed Saturation:

0.03 mJ/cm² without ND filters. 0.1 J/cm² with filter

Peak Intensity:

Auto adjusted to 85% of camera saturation level

Damage Threshold, By Design:

0.1 J/cm² @ 1064 with ND4 filter

Minimum Stimulation, Pulsed:

External trigger recommended for repetition rates below 250 Hz

Beam Diameter (µm):

55um - 11mm

Sensor

Frame Rate (fps):

6.20 (at full frame)

Pixel Size, H x V (µm):

5.5 x 5.5

Pixels (H x V):

2048 x 2048 (4.2 MegaPixel)

Sensing Area, H x V (mm):

11.3 x 11.3

Gamma:

N/A

Sensor Format:

1"

Frame Rate:

6.2 Hz 4.2 MPixel (Full frame), 32 Hz 0.066 Mpixel (256 x 256)

Exposure Time:

0.06 to 200 ms

Electrical

Signal to Noise S/N Ratio (dB):

1000:1 (60 dB)

Gain (dB):

User Adjustable

Peak Noise (nW/cm²):

Contact us

Pulse Trigger:

1.1 to 24 V, rising edge

Maximum Power (W):

1 W with ND filter

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)

Operating System:

Windows

Threading & Mounting

Mount:

1" x 32 TPI (C-Mount)

Environmental & Durability Factors

Operating Temperature (°C):

18 to 28

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 242:**

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.