

Edmund Optics Beam Profiler 4M



Edmund Optics Beam Profiler 4M, #11-045

Stock **#11-045** 5 In Stock

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+

S\$9,030⁰⁰

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Qty 1-4	S\$9,030.00 each
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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/e ² (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	
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)	Computer Interface:
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:

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.