

Edmund Optics Beam Profiler 4M



Edmund Optics Beam Profiler 4M, #11-045

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

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1

+

€6.450⁰⁰

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Volume Pricing	
Qty 1-4	€6.450,00 each
Qty 5+	€5.805,00 each
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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/e ² (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.