

LASER BEAM PROFILER

v1.0

Get a full picture of your system's optical performance with the World Star Tech Laser Beam Profiler. The Beam Profiler allows you to see the exact shape and features of your laser beams at a microscopic scale. Designed for repeatable and reliable data acquisition, it is ideal for manufacturing, servicing, and assembly applications.



The windowless 1.3 Megapixel 1/2" sensor captures beam profiles without the fringing effects present with standard image sensors. View intricate beam features as small as 5.2 μ m.

Visualize the beam with real-time ellipse calculations and view cross sections with curve fitting. Key beam width parameters of interest, such as Full Width Half-Maximum (FWHM) and 1/e² are displayed on the easy-to-use Windows software interface. Track beam centroid stability over time with the beam wander visualization tool featuring customizable test durations and sample rates. Export your results to various image formats or as a PDF report.

TECHNICAL SPECIFICATIONS

Spectral Sensitivity:	400nm – 1000nm
Resolution:	1280 x 1024, 10-bit
Pixel Size:	5.2 μ m x 5.2 μ m
Frame Rate:	Up to 10 frames/second
Shutter Type:	Rolling
Power and Data Connection:	USB Type-C
Beam Width Presentation:	FWHM, 1/e ² , custom level
Curve Fitting:	Gaussian, top-hat
Operating Humidity:	<85% relative, non-condensing
Operating Temperature:	10-50°C

MECHANICAL SPECIFICATIONS

Size:	55mm x 40mm x 15mm
Weight:	65g
Mounting:	1/4"-20 UNC
Filter Mount:	M12x0.5 (OD4 filter provided)