## 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 5.2µm.



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  $1/e^2$  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: 5.2µm x 5.2µm Up to 10 frames/second Frame Rate: Shutter Type: Rolling Power and Data Connection: USB Type-C Beam Width Presentation: FWHM, 1/e<sup>2</sup>, 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)



