µBeam Pro

NEW

PRELIMINARY

The Analyzer for Microscopic beams

The µBeam Pro is a high-precision beam diagnostic system designed for real-time measurement and visualization of micronic continuous wave (CW) or pulsed lasers. It effectively measures beam profiles from fiber optics, laser diodes, and focused infrared (IR) laser beams.

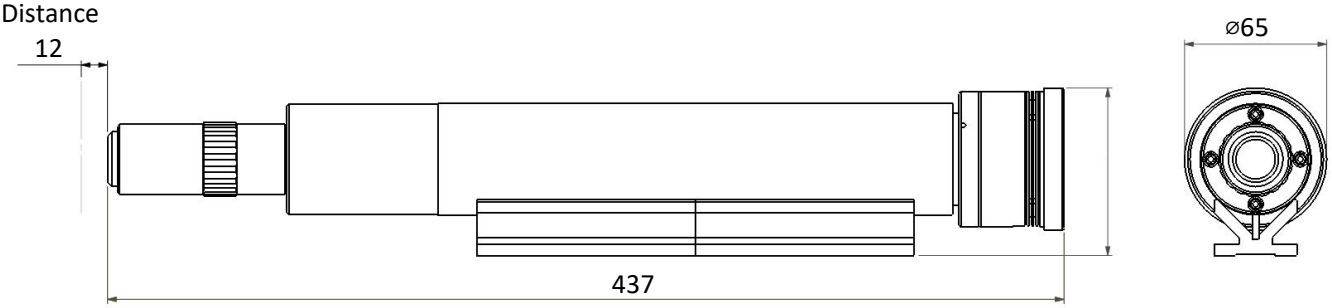
Key Features:

- Capable of measuring beam sizes smaller than 0.5 µm (FWHM).
- Supports both CW and pulsed lasers with an extended working distance.
- Equipped with a specialized IR camera, including sensitivity to 1550 nm, featuring a global shutter and a 1600x1100 pixel resolution.
- The system includes a 100x magnification objective, covering a wavelength range from 480 nm to 1550 nm.
- A unique filter arrangement allows the system to handle higher laser power levels, adding flexibility to the objective lens.

Specifications

Design Wavelength DWL (nm):	480 - 1550
Objective – Infinity Corrected	X100 NIR infinity with tube lens and optical assembly
Numerical Aperture NA:	0.50
Working Distance	12 mm
Attenuation	Built-in thread filter adaptors at the objective's back sight
Interface	USB 3.0 – Windows Operating system
Software Package	Installable detailed GUI for system operation

Camera Sensor Size	14.5 x 9.9 mm
Sensor Resolution	1600 x 1100, Global Shutter
Gain Control	User Selectable
Exposure Speed	32 µsec to 2 sec, user selectable
ADC Dynamic Range	16 bit
Software Features	
Beam Profiling	Complete XY Beam Analysis including 3-D display and sub-micron results
Data Saving	Full data saving and retrieving including video mode
Image Analysis	Sophisticated image analysis and auto contrast stretch
Multiple Beam Analysis	Available



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