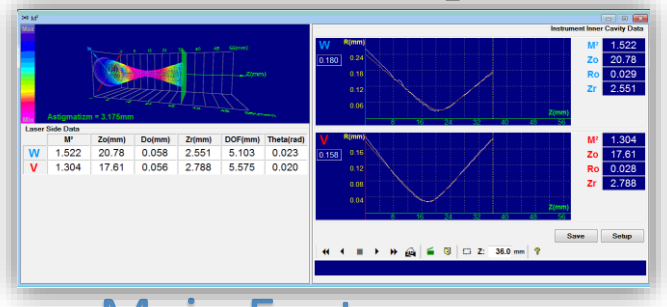
M^2 HP – 4 kW

Advanced High Power Laser Beam Analyzer for CW lasers with built-in Beam Dump



Main Specifications:

Input Beam

Measuring Method	Knife-edge – 7 blades mounted on a rotating drum
Measuring Parameters	Beam Size, Power, 2D – 3D Beam Profile specific location
Beam Propagation Parameters	BPP over up to 50 mm range, M^2 and depth of focus along propagation direction
Optional	ND Filters according to application

Scanning Assembly Attachment

Spectral Range	350 - 1100 nm (Si version), IR version available
Beam Power Range	Up to 4000W (with supplied internal filter) Continuous Operating Duration – Limited to 10 seconds @ 2 kW and up *(Depending on power, see user manual)*
Number of Knife-edges	7
Beam size	Input diameter- 8 mm max.
Maximum power density	Power density at input aperture- 0.4 kW/mm² Absolute Maximum Power Density- 2 kW/mm²
Minimal work distance for focused beams	60 mm – distance between input aperture to measuring plane of sensor head closest location

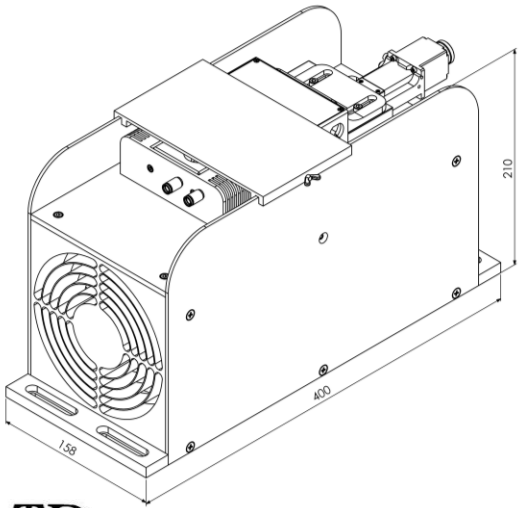
Accuracy:
M^2 Value: ±10%
Position Accuracy along propagation axis ± 10 micron
Position at the plane perpendicular to propagation ± 15 micron
Resolution: 1 microns

Main Features:

- A unique instrument for measuring high power lasers up to 4 KW
- Laser measurement is possible at the focal point
- Unique beam sampler (samples a fraction of the laser without distortion)
- M^2 and BPP real time measurements
- Built-in air-cooled beam dump

Software Features:

- Real-time M^2 and BPP measurements of focused beams
- Automatic measurement by a moving stage along 50 mm (Maximum measured beam propagation)
- Data logging and detailed statistics
- ActiveX package to control software from your application
- Detailed analysis of beam selected by the user



Ordering Information:

M^2 HP/4 kW BD: The system consists of BA7-Si-USB sensor head with 2.5 m long attached cable, USB 2.0 manifold box, NG4 & NG9 filters in housing, an integral beam sampler, a moving stage 50 mm range, mounting plate, software on CD/DiskOnKey, Air Cooled Beam Dump

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