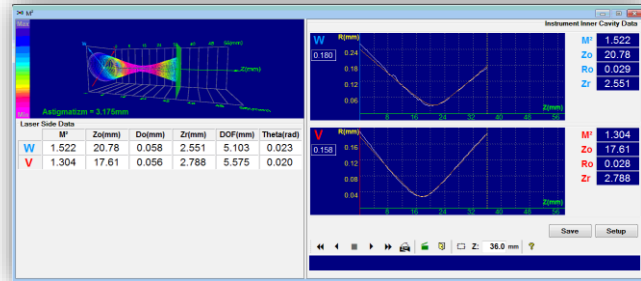


M² HP – 4 kW

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



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 (<i>Depending on power, see user manual</i>) |
| Number of Knife-edges | 7 |
| Beam size | Input diameter- 8 mm max. |
| Maximum power density | Power density at input aperture- 0.4 kW/mm ² Absolute Maximum Power Density- 2 kW/mm ² |
| Minimal work distance for focused beams | 60 mm – distance between input aperture to measuring plane of sensor head closest location |

Accuracy:

M² Value: ±10%

Position Accuracy along propagation axis ± 10 micron

Position at the plane perpendicular to propagation ± 15 micron

Resolution: 1 microns

Ordering Information

M² 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

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)

M² and BPP real time measurements

Built-in air-cooled beam dump

Software Features:

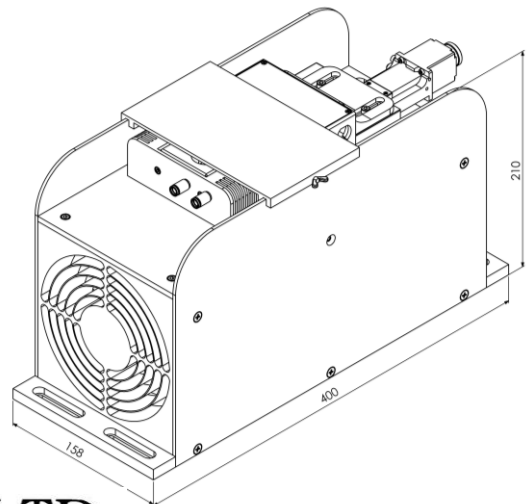
Real-time M² and BPP measurements of focused beams

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



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