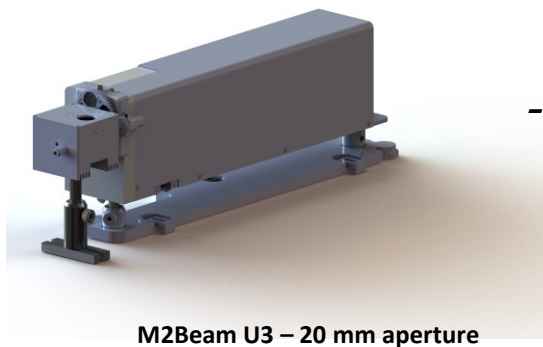
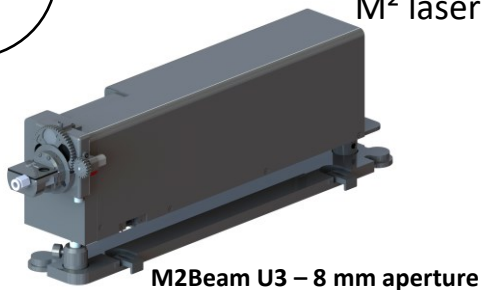


M2 Beam U3 HP

M² laser beam propagation analyzer



- Combines all ISO compliance accuracy
- Flexible, with different versions for pulsed and CW lasers
- Special version for high power measurements up to 4 kWatt
- Removable measuring head for regular laser beam profiling

Specifications

Input Beam

Technology	USB 3 with CMOS 2.4 MP and built in filter wheel
Spectral Range (nm)	220 – 1350 with built in special CMOS technology
Beam Power Range	Up to 4 kW for HP version
Beam Size	8 mm, absolute maximum 10 mm 20 mm for M2Beam U3 – 20 mm aperture
Minimum Detectable Divergence Angle	Better than 0.1 mRad
Typical Measurement Time	10 seconds, better if the system is allowed to cool off after two minutes
Cooling conditions	Filtered pressurized air of 6-8 Bar
Method	Main beam is sampled and directed towards measurement assembly
Beam dumping	Supplied by user
Adjustment	Built-in pan/tilt

Scanning Assembly

Construction	Aluminium
Lens Focal Length	300 mm (at 632.6 nm)
Lens Diameter	25 mm
Number of Scan Steps	140
Minimum Step Size	100 µm
Scan Length	280 mm

Physical

Weight	2.5 Kg
Dimensions	100 x 173 x 415 mm
Mounting	M6 or ¼" screws
Mechanical Adjustment	Horizontal angle: ±1.5° Vertical angle: ±1.5°
Cable Length	2.5 m

Accuracy:

M² Values & General Parameters Accuracy: ±5%

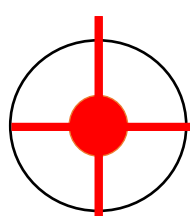
DUMA OPTRONICS LTD.

Website: <http://www.dumaoptronics.com>

E-mail: sales@duma.co.il

May 2024

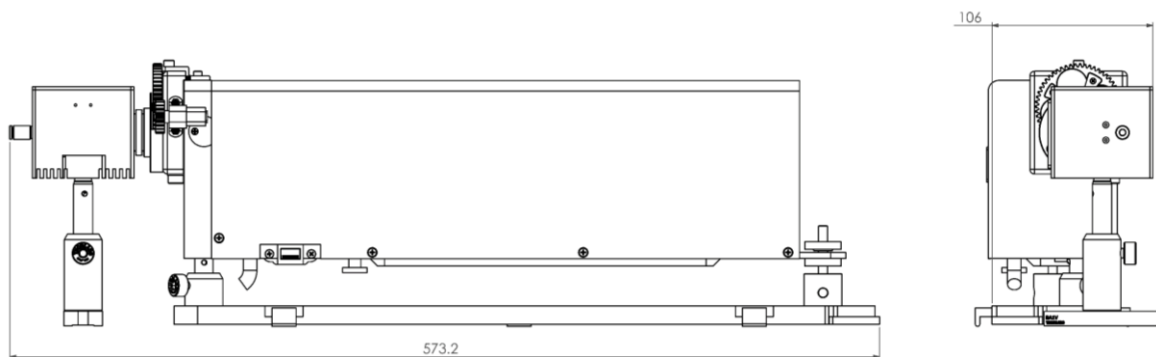




M² Beam U3 HP

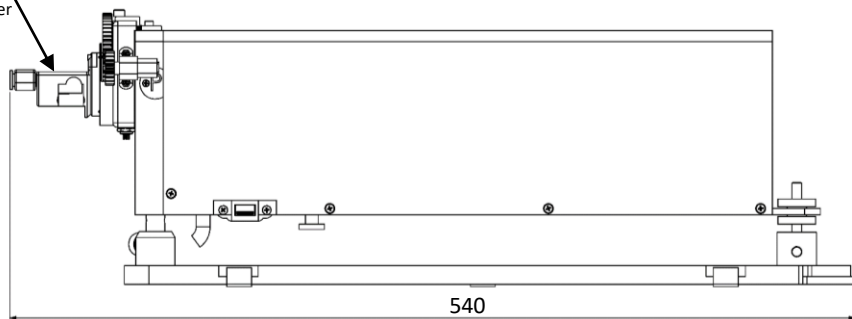
M² laser beam propagation analyzer

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M2Beam U3 High Power – 20 mm

Air-cooled
Power
Sampler



M2Beam U3 High Power – 8 mm

Ordering Information

M2Beam-U3-HP-8 – measurement device for 350-1550 nm CMOS based

M2Beam-U3-HP-20 – measurement device for 350-1550 nm CMOS based

Measurements:
Beam Propagation (M²)
Beam Waist Location
Beam Waist Diameter
Divergence
Rayleigh Range
Waist Asymmetry
Astigmatism



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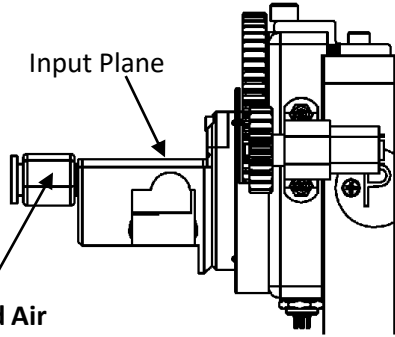
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May 2024



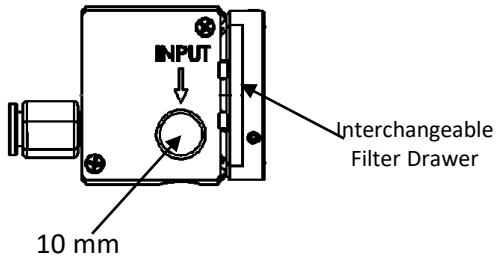
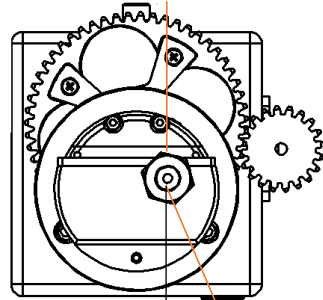
M2 Beam U3 HP

M² laser beam propagation analyzer



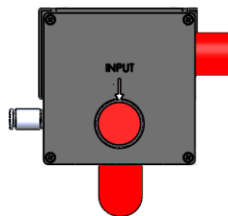
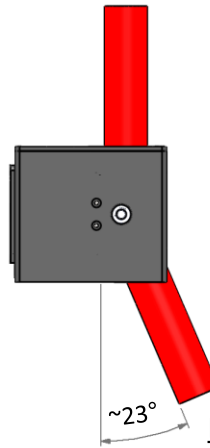
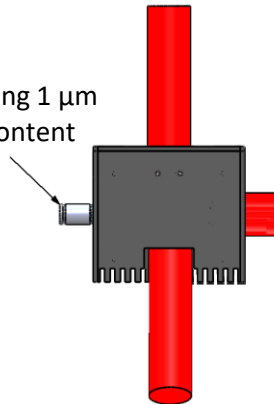
Pressurized Air

Recommended Air Filtering 1 μm including water and oil content



Pressurized Air

Recommended Air Filtering 1 μm including water and oil content



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