

## BEAMAGE-M2

Automated M-squared measurement system. Comes with BEAMAGE-4M, 5 lenses, 3 ND filters, and 2 external beam-steering mirrors.



### KEY FEATURES

The BEAMAGE-M2 is an automated laser beam quality measurement system.

#### LARGE APERTURES

The only M2 system on the market equipped with a complete set of 50mm optics. Also, the sensor is 11.3 x 11.3 mm.

#### SIMPLE ALIGNMENT

Two beam-steering mirrors are included for quick and easy alignment of your laser into the system. The internal mirrors are factory-aligned and the pre-set height also simplifies the alignment.

#### COMPACT

The low-profile ingenious mechanics make it easy to fit the device on any optical table.

#### ISO COMPLIANT

The calculations are fully compliant to the ISO 11146 and 13694 standards.

#### FAST ACQUISITION

Make a complete, ISO-compliant measurement in only 20 seconds with the ROI feature, and in less than a minute with full-frame acquisition.

#### FLEXIBLE & INTUITIVE SOFTWARE

In the easy-to-navigate software, both automatic and manual settings are available, so data points can be added or removed even after an automatic scan is completed.

## SPECIFICATIONS

### MEASUREMENT CAPABILITIES

Spectral range	350 - 1100 nm
Minimum measurable beam	55 $\mu$ m
Included filter	3 flip-mount attenuators for 8 levels of attenuation, from none to ND3.5
Sensor technology	BEAMAGE-4M included
Effective aperture	$\varnothing$ 48 mm optics, 11.3 x 11.3 mm sensor
Beam diameter range	55 $\mu$ m to 11.3/3 mm, at the sensor
Mechanical travel range	200 mm
Effective optical path range	400 mm
Lens focal length	5 AR-coated lenses included: 200 mm, 250 mm, 300 mm, 400 mm and 500 mm
Typical M <sup>2</sup> accuracy	$\pm$ 5%, depending on the beam quality and optical configuration
Typical M <sup>2</sup> repeatability	$\pm$ 2%, depending on the beam quality and optical configuration
Applicable light sources	CW and pulsed
Typical measurement time	45 sec with full-frame acquisition
Beam diameter definitions	D4 $\sigma$ (ISO compliant) 1/e <sup>2</sup> along crosshairs (13.5%) FWHM along crosshairs (50%) Custom (%)
Beam quality definitions	Laser beam quality: M2 (ISO-compliant) Beam Propagation factor: BPP Width at waist Waist location and offset Divergence angle Rayleigh length Astigmatism

### PHYSICAL CHARACTERISTICS

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ORDERING INFORMATION

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