

**ML4515** 

Beam Diagnostic Systems

# M<sup>2</sup> online, M<sup>2</sup> within high accuracy ± 3 %

ML4515 M<sup>2</sup> meter is developed for measuring the beam quality parameter M<sup>2</sup> for CW and pulsed laser beams.

It uses a high resolution digital camera for precise determination of the laser beam diameter.

A new  $M^2$  module of our beamlux II advanced software package evaluates the  $M^2$  value with a precision of  $\pm$  3%. ML 4515 is pre-adjusted and easy to align.

The high measuring rate of > 5Hz allows online testing, adjustment and optimization of your laser.

# Complete beam analysing software

- M<sup>2</sup> measuring of single pulses
- ML1203 advanced with additional M<sup>2</sup> module
- averaging of frames for high accuracy
- background correction
- M<sup>2</sup>X, M<sup>2</sup>y
- evaluation of beam diameter in compliance to ISO
- automatic and manual mode
- visualisation of the caustic

### **Accessories**

- beam alignment tool, attenuators (optional)
- trigger diode for synchronization

## **Specifications:**

Wavelength	350-1100 nm (optional UV)
Laser beam diameter	< 6 mm (15 mm with additional optics)
max. Power density	< 1 W/cm² (< 10000 W/cm² with additional attenuators)
max. Energy density	< 300 µJ/cm² (< 1 J/cm² with additional attenuators)
M <sup>2</sup>	1 - 30
Accuracy	± 3 % (@ M²= 1.1)
Single pulse detection	ca. 1000Hz (VIS)
Measuring Rate	ca.< 1/5 s after adjustment
	M² measuring of single pulses
Dimensions	ca. 310 x 210 x 115 mm³
Weight	ca. 5.7 kg

# **New** squarelux

Complete Beam Analysis for CW - and pulsed Laser beams

