squarelux ISO

The ideal M^2 measurement device for automatic calculation of the focussability of the laser beam in industrial use.”

Laser propagation monitor

The system automatically controls the quality of laser beams in situations where the functional scope of a simple beam profiler just isn’t enough.

The squarelux ISO measures the beam parameters for lasers with large Rayleigh lengths.

You’ll benefit from:

+ Very quick M^2-measurement and caustic measurement in 10 seconds
+ Fully-automated M^2 measurement in accordance with the ISO 11146 standard in less than 30 seconds
+ Simple and quick system set-up
+ Simple and quick integration of the compact unit into the production process
+ Optional direct software control or custom-made remote control

Design & technology

- Beam quality measurement with an M^2 tool optimized in accordance with ISO 11146-1
- Integrated optics system for imaging the laser caustic
- Moving unit to scan the laser caustic
- Choice of selection between two different magnification levels
- Equipped with various optical filters
- Data measurement and evaluation with proven Beamlux software
- Customer-specific remote control of the Beamlux software through front-end BLFE
- Can be combined with SAMM control and evaluation module

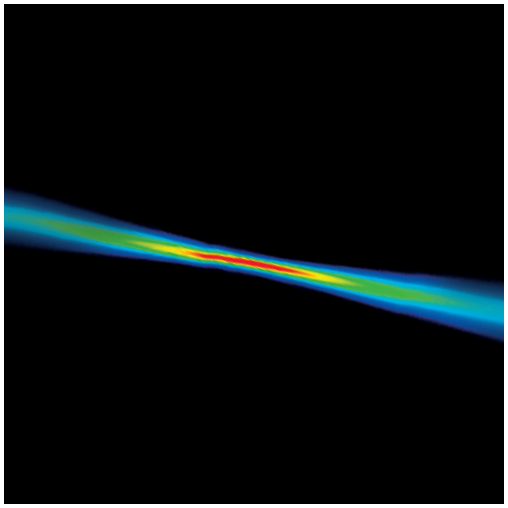
Use

- Optimized for fibre and YAG lasers
- Intended for all industrial production systems
- The comprehensive line of accessories allows significant expansion of the application parameters

metrolux
We finally make the laser controllable

Technical specifications

Sensor type	2/3" CCD
Resolution	1 388 × 1 036 pixels
Pixel size	6.45 × 6.45 µm
Light-sensitive area	9.0 × 6.7 mm
Digital image output	12 bit
Maximum image refresh rate	15 fps
Camera control standard	GenICam V. 1.0
Wavelengths	340 – 1 100 nm



Dimensions and interfaces

Beam entrance aperture	Thread M31.5 × 0.5
Digital interface	GigE Vision V. 1.0
Synchronisation	External trigger (5 V TTL) or free-running
Dimensions	314 mm × 125 mm × 140 mm (L × W × H)
Weight	6.75 kg
Power supply	24 V DC, 2.5 A
Conformity	CE, REACH, RoHS, FCC

Applications: Caustic measurement, M^2 value determination in accordance with ISO 11146-1 for $1 \leq M^2 \leq 30$

Laser power	<10 W without additional module
Beam size, collimated	250 µm – 15 mm
Magnification	1.4 x to 7.6 x

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