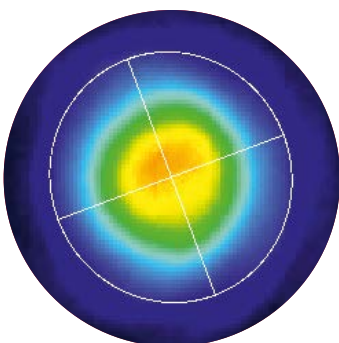


FM100

Focus Monitor for the analysis of
focused laser light



» The Focus Monitor 100 (FM100) is a robust and compact beam profiler for the analysis of focused laser light particularly in the industrial environment. «



- Thanks to its versatility it is already being used for regular quality control of the laser beam in the display and semiconductor industries as well as in the processing of materials in the automotive industry.
- The comprehensive beam profiling software Beamlux allows for high-precision real-time analysis of all beam parameters according to the user's needs. It can be integrated into automated processes via customer specific front-ends or the remote control interface in the software.
- In addition to the integrated high power attenuator, the FM100 has two filter slots for flexible attenuation of laser power. The configuration can be optimized for all laser wavelengths to guarantee the best possible measurement results.
- The standard FM100 is designed for all common YAG or excimer laser wavelengths, the model defines the precise optimization wavelength range and magnification of the system. In addition to the optional optimization of the contained optics for other wavelengths there are FM100 models for UV and even LWIR applications. The FM100LWIR-g600 for instance covers the Wavelength range from 9300 to 9600 nm for the measurement of CO₂ laser foci.

FM100

Technical specifications (* = varies w/ model)

Sensor type

2/3"

Resolution*

1388 x 1036 pixels

Pixel size*

6.45 μm x 6.45 μm

Light-sensitive area

ca. 9 mm x 7 mm

Digital output

12 Bit

Maximum frame rate*

15 fps

Camera control standard

GenICam V. 1.0

Wavelength*

248–1100 nm or 9300–9600 nm

Dimensions and interfaces

Beam entrance aperture

diameter 1.5 mm

Digital Interface

GigE Vision V. 1.0

Synchronization

external trigger (5 V TTL) or free running

Dimensions (L x H x W)

163 mm x 127* mm x 70 mm

Weight

1.5 kg

Power supply*

PoE or 12 to 24 VDC

Conformity

CE, RoHS, REACH

Applications: Focus measurement, Line focus measurement

Laser power

up to 100 W

Beam size*

10 μm to 1500 μm

Magnifications

5 x to 20 x

Spot size
as small as
10 μm

Dimensions
incl. attenuator
163 x 127 x 70 mm

Focus
measurement
at 9.3–9.6 μm