

BEAMAGE-4M-FOCUS

Beam profiling camera with fiber optic taper for large beams. 4.2 MPixel high-resolution CMOS sensor, ISO-compliant measurements.



PRODUCT FAMILY KEY FEATURES

USB 3.0 FOR THE FASTEST TRANSFER RATES

Up to 10X faster than regular USB 2.0 connections (also USB 2.0 compatible)

HIGH RESOLUTION

For accurate profile measurements of very small beams: 5.5 μm pixel pitch for the BEAMAGE-4M

LARGE APERTURES

- 11.3 x 11.3 mm for the BEAMAGE-4M and BEAMAGE-4M-IR
- 20.5 x 20.5 mm for the BEAMAGE-4M-FOCUS

AVAILABLE WITH IR COATING

The BEAMAGE-4M-IR cameras have a special phosphor coating for IR wavelengths (1495-1595 nm)

ISO COMPLIANT

D4 σ definition of diameter, centroid, ellipticity and orientation are ISO 11146:2004 and 11146:2005 compliant

INTUITIVE SOFTWARE INTERFACE

Easy to navigate interface, with many display and control features:

- 2D, 3D and XY displays
- Background subtraction function
- Unique "animate" function
- Gaussian fit
- Semi-log graph

EXTERNAL TRIGGER

To synchronize the camera with a pulsed laser

SOFTWARE DEVELOPMENT KIT

A software development kit is available. Learn more about [BEAMAGE-SDK](#).

COMPATIBLE STAND

[STAND-D-233](#)

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Spectral range	350 - 1150 nm
Pixel multiplication factor (PMF)	1.8 typical
Minimum measurable beam	120 μm
Sensor technology	CMOS (with Fiber Optic Taper)
Pixel count	4.2 MPixels
H x V	2048 x 2048
Beam diameter definitions	D4 σ (ISO compliant) 1/e ² along crosshairs (13.5%) FWHM along crosshairs (50%) Custom (%)
Shutter type	Global
Frame rate	6.2 fps @ 4.2 MPixels (Full Frame)

ADC level	12 bit (default) / 10 bit (option)
RMS noise	1000:1 (60 dB)
DAMAGE THRESHOLDS	
Maximum power density ¹	10 W/cm ²
Maximum energy density ²	100 mJ/cm ²
Maximum power ³	1 W

1. At 1064 nm. With ND4 filter.
2. At 1064 nm, 10 ns. With ND4 filter.
3. At 1064 nm. With ND4 filter.

PHYSICAL CHARACTERISTICS

Dimensions	61H x 81.1W x 46.5D mm
Weight	0.24 kg
Pixel dimension ¹	10 μm
Included filter	ND4
Active area	20.5 X 20.5 mm

1. With a typical pixel multiplication factor (PMF) of 1.8.

ORDERING INFORMATION

BEAMAGE-4M-FOCUS	203191
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Specifications are subject to change without notice. Refer to the user manual for complete specifications.

INTERESTED IN THIS PRODUCT?

GET A QUOTE

Find your local sales representative at gentec-eo.com/contact-us