

## BEAMAGE-4M

Beam profiling camera. 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  $\mu\text{m}$  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 $\sigma$  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
Minimum measurable beam	55 $\mu\text{m}$
Sensor technology	CMOS
Pixel count	4.2 MPixels
H x V	2048 x 2048
Beam diameter definitions	D4 $\sigma$ (ISO compliant) 1/e <sup>2</sup> along crosshairs (13.5%) FWHM along crosshairs (50%) Custom (%)
Shutter type	Global
ADC level	12 bit (default) / 10 bit (option)
RMS noise	1000:1 (60 dB)

### DAMAGE THRESHOLDS

Maximum power density <sup>1</sup>	10 W/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	100 mJ/cm <sup>2</sup>
Maximum power <sup>3</sup>	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 19.7D mm
Weight	0.14 kg
Pixel dimension	5.5 $\mu$ m
Included filter	ND4
Active area	11.3 x11.3 mm

#### ORDERING INFORMATION

BEAMAGE-4M	202880
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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](http://gentec-eo.com/contact-us)