DORGEAN
Beijing Dorgean Electronic Technology Co.,Ltd

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PARTNERS for ACCURACY

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 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
D4σ 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 µm
Sensor technology	CMOS
Pixel count	4.2 MPixels
H x V	2048 x 2048
Beam diameter definitions	D4σ (ISO compliant) 1/e2 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

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Maximum power density[1]	10 W/cm²
Maximum energy density[2]	100 mJ/cm²
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 19.7D mm
Weight	0.14 kg
Pixel dimension	5.5 μm
Included filter	ND4
Active area	11.3 x11.3 mm

ORDERING INFORMATION

BEAMAGE-4M	202880

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