BEAMAGE-4M-FOCUS
Beam profiling camera with fiber optic taper for large beams.

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:
- 2.2 MPixels for the BEAMAGE-3.0
- 4.2 MPixels for the BEAMAGE-4M

LARGE APERTURES
- 11.3 x 6.0 mm for the BEAMAGE-3.0
- 11.3 x 11.3 mm for the BEAMAGE-4M
- 20.5 x 20.5 mm for the BEAMAGE-4M-FOCUS

AVAILABLE WITH IR COATING
The BEAMAGE-IR cameras have a special phosphor coating for IR wavelengths (1495-1595 nm)

ISO COMPLIANT
D4e 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

<table>
<thead>
<tr>
<th>Spectral range</th>
<th>350 - 1150 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixel multiplication factor (PMF)</td>
<td>1.8 typical</td>
</tr>
<tr>
<td>Minimum measurable beam</td>
<td>120 μm</td>
</tr>
<tr>
<td>Sensor technology</td>
<td>CMOS (with Fiber Optic Taper)</td>
</tr>
<tr>
<td>Pixel count</td>
<td>4.2 MPixels</td>
</tr>
<tr>
<td>H x V</td>
<td>2048 x 2048</td>
</tr>
<tr>
<td>Beam diameter definitions</td>
<td>D4e (ISO compliant)&lt;br/&gt;1/e2 along crosshairs (13.5%)&lt;br/&gt;FWHM along crosshairs (50%)&lt;br/&gt;Custom (%)</td>
</tr>
<tr>
<td>Shutter type</td>
<td>Global</td>
</tr>
<tr>
<td>Frame rate</td>
<td>6.2 fps @ 4.2 MPixels (Full Frame)</td>
</tr>
<tr>
<td>ADC level</td>
<td>12 bit (default) / 10 bit (option)</td>
</tr>
</tbody>
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### SPECIFICATIONS

#### MEASUREMENT CAPABILITIES

#### DAMAGE THRESHOLDS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Maximum power density</td>
<td>10 W/cm²</td>
</tr>
<tr>
<td>Maximum energy density</td>
<td>300 µJ/cm²</td>
</tr>
<tr>
<td>Maximum power</td>
<td>1 W</td>
</tr>
</tbody>
</table>

1. At 1064 nm. With ND4 filter.
2. At 1064 nm. With ND4 filter.
3. At 1064 nm. With ND4 filter.

#### PHYSICAL CHARACTERISTICS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>61H x 81.1W x 46.5D mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.24 kg</td>
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<tr>
<td>Pixel dimension</td>
<td>10 µm</td>
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<tr>
<td>Included filter</td>
<td>ND4</td>
</tr>
<tr>
<td>Active area</td>
<td>20.5 X 20.5 mm</td>
</tr>
</tbody>
</table>

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

#### ORDERING INFORMATION

BEAMAGE-4M-FOCUS 203191

**INTERESTED IN THIS PRODUCT?**

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