BEAMAGE-3.0
Beam profiling camera.

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

<table>
<thead>
<tr>
<th>MEASUREMENT CAPABILITIES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectral range</td>
<td>350 - 1150 nm</td>
</tr>
<tr>
<td>Minimum measurable beam</td>
<td>55 μm</td>
</tr>
<tr>
<td>Sensor technology</td>
<td>CMOS</td>
</tr>
<tr>
<td>Pixel count</td>
<td>2.2 MPixels</td>
</tr>
<tr>
<td>H x V</td>
<td>2048 x 1088</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>11 fps @ 2.1 MPixels (Full Frame)</td>
</tr>
<tr>
<td>ADC level</td>
<td>12 bit (default) / 10 bit (option)</td>
</tr>
<tr>
<td>RMS noise</td>
<td>10001 (60 dB)</td>
</tr>
</tbody>
</table>
**BEAMAGE-3.0**

**Beam profiling camera.**

**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**
  - 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**
  - 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.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th><strong>MEASUREMENT CAPABILITIES</strong></th>
<th><strong>DAMAGE THRESHOLDS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum power density¹</td>
<td>10 W/cm²</td>
</tr>
<tr>
<td>Maximum energy density²</td>
<td>300 μJ/cm²</td>
</tr>
<tr>
<td>Maximum power³</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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>6H x 81.1W x 19.7D mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.14 kg</td>
</tr>
<tr>
<td>Pixel dimension</td>
<td>5.5 μm</td>
</tr>
<tr>
<td>Included filter</td>
<td>ND4</td>
</tr>
<tr>
<td>Active area</td>
<td>11.3 x 6.0 mm</td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION**

BEAMAGE-3.0

**INTERESTED IN THIS PRODUCT?**

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