Technical data

Explore your micro universe with PROGrammable RESolutions 20 & 5 MPix.

KEY FACTS
- 20 MPix microscope camera
- 30 fps at 5 MPix
- Dynamic range 71.8 dB
- USB 3.0 interface
- 1" sensor
- 12 bit
- Software included

SYSTEM REQUIREMENTS
- Personal computer: Intel i7 (Quad-Core) processor or comparable / 8 GB RAM
- Operating system: WIN 7 / 8 / 10 | MAC El Capitan | LINUX Ubuntu 14.04 LTS
- Data interface: USB 3.0 integrated, no extra power supply needed
- Monitor resolution: 3840 x 2160 or higher
- Software (included in the package): PROGRES GRYPHAX® (64 bit operating systems only)

IMAGE SENSOR
- Type: square | utilised sensor diagonal: SONY back-illuminated CMOS | 1" | 15.58 mm
- Pixel dimensions: 2.4 x 2.4 µm
- Color or monochrome: Color
- Transfer method | shutter mode: All pixel scan | Rolling shutter
- Full sensor resolution: 5400 x 3600 pixel

CAMERA
- Camera resolution in LIVE mode: 1800 x 1200 pixel (50 fps) | 2700 x 1800 pixel (30 fps)
- Camera resolution in RECORD mode: 1800 x 1200 pixel | 2700 x 1800 pixel | 5400 x 3600 pixel
- Camera resolution in VIDEO mode: 1800 x 1200 pixel (30 fps)
- Camera resolution in PANORAMA / Z-STACKING mode: 1800 x 1200 pixel up to 2700 x 1800 pixel
- Exposure time min. - max.: 10 µs - 10 s
- Gain: Max. 10
- A/D conversion: 12 bit (4096 grey values)
- Absolute sensitivity threshold*: 3.8 e-
- Saturation capacity*: 15.000 e-
- Dynamic range*: 71.8 dB

*based on EMVA 1288 standard compliance guidelines
### PROGRES GRYPHAX® NAOS IS AN ADVANCED SOLUTION FOR:

- Life science
- Quality control
- Material science
- Forensics

*based on EMVA 1288 standard compliance guidelines / effective spectral sensitivity on request

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#### MEASURED RELATIVE SPECTRAL SENSITIVITY:

![Relative Spectral Sensitivity](image)

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<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>Filter</strong></td>
<td>IR cut I optional clear-glass</td>
</tr>
<tr>
<td><strong>Hardware trigger</strong></td>
<td>OUT</td>
</tr>
<tr>
<td><strong>Power switch</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Optical interface</strong></td>
<td>C-mount</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>Appr. 3 W</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>85 mm x 75 mm x 50 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Appr. 400 g</td>
</tr>
<tr>
<td><strong>Storage options</strong></td>
<td>-20°C up to +70°C</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>+10°C up to +35°C non condensing</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>24 months</td>
</tr>
<tr>
<td><strong>CE conformity / RoHS conformity</strong></td>
<td>Yes</td>
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