JENOPTIK GYPHAX® NAOS

Explore your micro universe with revolutionary 5 & 20 MPix.

**Camera properties**

- **Sensor Size**: 
- **Sensitivity**: 
- **Frame Rate**: 
- **Resolution**: 

**Recommended: Applications**

- **Life & Medical Science**
- **Education Life & Medical Science**
- **Material & Manufacturing**
- **Education Material & Manufacturing**
- **Fluorescence**
- **Education Fluorescence**

**Contrast techniques**

- **BF**: 
- **DF**: 
- **DIC**: 
- **Ph**: 
- **Pol**: 

**color** **uncooled** **inactive**
JENOPTIK GRYPHAX® NAOS - technical data
Superior solution for life & medical science | material & manufacturing applications

**IMAGE SENSOR**
- Type: Square Utilised sensor diagonal
- Utilised sensor diagonal: SONY back-illuminated CMOS 1" 15.6 mm
- Pixel dimensions: 2.4 x 2.4 μm
- Color or monochrome: Color
- Transfer method: All pixel scan | rolling shutter

**CAMERA**
- Camera resolution & speed 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 & speed in VIDEO mode: 1800 x 1200 pixel up to 25 fps
- Exposure time LIVE min. - max.: 51μs - 1 s
- Exposure time RECORD min. - max.: 51μs - 30 s
- Gain: Max. 30
- Cooling: NO
- A/D conversion | digital output: 12 bit (4096 grey values) | 16 bit
- Absolute sensitivity threshold*: 3.8 e-
- Quantum Efficiency @ 532 nm (green)*: 0.66 QE (λ)
- Dark Noise [DN / e-]*: 0.9 DN / 3 e-
- Saturation capacity*: 15 000 e-
- Dynamic range*: 72 dB
- Filter: IR cut | optional clear-glass
- Power consumption: Appr. 3 W
- Hardware Trigger: OUT
- Weight: Appr. 400 g
- Power switch: Yes
- Optical interface: C-mount
- Dimensions: 85 mm x 75 mm x 50 mm
- Storage options: -20°C up to 70°C
- Operating temperature: +10°C up to + 35°C non condensing
- Warranty: 24 months
- Conformity to CE / WEEE / RoHS / China RoHS: Yes

**RECOMMENDED SYSTEM REQUIREMENTS**
- Personal computer: Intel i7 Quad-Core (min. 3.0 GHz) processor | 8 GB RAM
- Operating system - 64 Bit: Win 7 SP1 / Win 8.1 / Win 10 I MacOS High Sierra / Mojave I Linux Ubuntu 16.04 LTS
- Data interface: USB 3.0 integrated, no extra power supply needed
- Monitor resolution: 3840 x 2160 pixel or higher
- Software (included in the package): Microscope software - GRYPHAX APP / Twain APP / DirectX APP / Software development kit

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**Measured spectral sensitivity***:

```
<table>
<thead>
<tr>
<th>Absolute</th>
<th>Relative</th>
</tr>
</thead>
<tbody>
<tr>
<td>wavelength in nm</td>
<td>absolute spectral sensitivity</td>
</tr>
<tr>
<td>380</td>
<td>430</td>
</tr>
<tr>
<td>0</td>
<td>0.1</td>
</tr>
</tbody>
</table>
```

*based on EMVA 1288 standard compliance guidelines