Explore your micro universe with the flagship and real measured color.

**JENOPTIK GRYPHAX® PROKYON**

**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
### IMAGE SENSOR

**Type** Square Utilised sensor diagonal
**SOYON back-illuminated CMOS 1/1.2" 13.3 mm**
**Pixel dimensions** 5.86 x 5.86 μm
**Color or monochrome** Color (measured)
**Transfer method / shutter mode** All pixel scan / global shutter

### CAMERA

**Camera resolution & speed in LIVE mode**
960 x 600 pixel | 60 fps | 1920 x 1200 pixel | 60 fps
**Camera resolution in RECORD mode**
960 x 600 pixel | 1920 x 1200 pixel
920 x 1200 pixel (scan) | 3840 x 2400 pixel (scan) | 5760 x 3600 pixel (scan)
**Camera resolution & speed in VIDEO mode**
FULL HD - 1920 x 1200 pixel up to 25 fps

**Exposure time LIVE**
- min. 26 μs
- max. 1 s
**Exposure time RECORD**
- min. 26 μs
- max. 60 s
**Gain**
Max. 60
**Cooling**
YES***
**A/D conversion | digital output**
- 12 bit (4096 grey values)
- 16 bit
**Absolute sensitivity threshold***
- 7.0 e-
**Quantum Efficiency @ 532 nm (green)**
- 0.6 QE (A)
**Dark Noise [DN / e-]**
- 0.8 DN / 6 e-
**Saturation capacity***
- 33,000 e-
**Dynamic range***
- 73.3 dB
**Filter**
- IR cut / optional clear-glass
**Power consumption**
- Appr. 4.5 W
**Hardware Trigger**
- OUT
**Weight**
- Appr. 420 g
**Power switch**
- Yes
**Optical interface**
- C-mount
**Dimensions**
- 85 mm x 75 mm x 50 mm
**Operating temperature**
- -20°C up to 70°C
- +10°C up to + 35°C non condensing
**Warranty**
- 24 months

### 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
- MacOS High Sierra / Mojave
- Linux Ubuntu 16.04 LTS

**Data interface**
- USB 3.0 integrated, no extra power supply needed

**Monitor resolution**
- 1920 x 1200 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***:

**Absolute**

<table>
<thead>
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<th>Absolute Sensitivity</th>
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<tr>
<td>380</td>
<td>0.1</td>
</tr>
<tr>
<td>430</td>
<td>0.2</td>
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</tr>
<tr>
<td>580</td>
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</tr>
<tr>
<td>680</td>
<td>0.7</td>
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<tr>
<td>730</td>
<td>0.8</td>
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<tr>
<td>780</td>
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**Relative**

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*Based on EMVA 1288 standard compliance guidelines

***Unique vibration-free software cooling developed by JENOPTIK (further information gryphax@jenoptik.com)