**JENOPTIK GRYPHAX® SUBRA**

**Explore your micro universe in full HD.**

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*color* *uncooled* *active*
**JENOPTIK GRYPHAX® SUBRA - technical data**

Exclusive solution for fluorescence applications

### IMAGE SENSOR
- Type: Square Utilised sensor diagonal
- SONY back-illuminated CMOS 1/1.2\* 13.3 mm
- Pixel dimensions: 5.86 x 5.86 μm
- Color or monochrome: Color
- Transfer method: I shutter mode
- All pixel scan I global shutter

### CAMERA
- Camera resolution & speed in LIVE mode: 1920 x 1200 pixel | 30 fps
- Camera resolution in RECORD mode: 1920 x 1200 pixel
- Camera resolution & speed in VIDEO mode: FULL HD – 1920 x 1200 pixel up to 25 fps
- Exposure time LIVE min. – max.: 26 μs - 1 s
- Exposure time RECORD min. – max.: 26 μs - 30 s
- Gain: Max. 30
- Cooling: NO
- A/D conversion | digital output: 12 bit (4096 grey values) | 16 bit
- Absolute sensitivity threshold*: 5.5 e-
- Quantum Efficiency @ 532 nm (green)*: 0.57 QE (\(\lambda\))
- Dark Noise [DN / e-]*: 1.6 DN / 5 e-
- Saturation capacity*: 12.500 e-
- Dynamic range*: 67 dB
- Filter: IR cut / optional clear-glass
- Power consumption: Appr. 4.5 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 | 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

#### Measured spectral sensitivity*:

**Absolute**

![Measured spectral sensitivity graph](image)

**Relative**

![Relative spectral sensitivity graph](image)

*based on EMVA 1288 standard compliance guidelines

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