JENOPTIK GRYPHAX® RIGEL

Explore your micro universe – monochrome in low light.

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 mono cooled active
**JENOPTIK GRYPHAX® RIGEL - technical data**

Superior solution for monochrome fluorescence applications

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**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: Monochrome
- 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
- Camera resolution & speed in **VIDEO** mode: FULL HD - 1920 x 1200 pixel up to 25 fps
- Exposure time **LIVE** min. - max.: 26 μs - 2 s
- Exposure time **RECORD** min. - max.: 26 μs - 120 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)*: 0.66 QE (λ)
- Dark Noise [DN / e-]*: 0.8 DN / 8 e-
- Saturation capacity*: 52 300 e-
- Dynamic range*: 73 dB
- Filter: Clear-glass | optional IR cut
- 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**

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![Absolute Spectral Sensitivity](image1)

**Relative**

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![Relative Spectral Sensitivity](image2)

*based on EMVA 1288 standard compliance guidelines  
***unique vibration-free software cooling developed by JENOPTIK (further information gryphax@jenoptik.com)