JENOPTIK GRYPHAX® AVIOR

Explore your micro universe cost efficient with 2 & 8 MPix.

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color  | uncooled  | inactive
JENOPTIK GRYPHAX® AVIOR - technical data
Superior solution for education applications

**IMAGE SENSOR**
- Type: Square Utilised sensor diagonal
- SONY back-illuminated CMOS 1/2” 8.2 mm
- Pixel dimensions: 1.85 x 1.85 μm
- Color or monochrome: Color
- Transfer method / shutter mode: All pixel scan / rolling shutter

**CAMERA**
- Camera resolution & speed in LIVE mode: 1920 x 1080 pixel | 30 fps
- Camera resolution in RECORD mode: 1920 x 1080 pixel | 3840 x 2160 pixel
- Camera resolution & speed in VIDEO mode: FULL HD - 1920 x 1080 pixel up to 25 fps
- Exposure time LIVE min. - max.: 52 μs - 1 s
- Exposure time RECORD min. - max.: 52 μs - 15 s
- Gain: Max. 15
- Cooling: NO
- A/D conversion / digital output: 10 bit (1024 grey values) / 16 bit
- Absolute sensitivity threshold*: 5.7 e-
- Quantum Efficiency @ 532 nm (green)*: 0.57 QE (λ)
- Dark Noise [DN / e-]*: 0.5 DN / 4 e-
- Saturation capacity*: 10,000 e-
- Dynamic range*: 65 dB
- Filter: IR cut / optional clear-glass
- Hardware Trigger: NO
- Power consumption: Appr. 4.5 W
- 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 pixel or higher
- Software (included in the package): Microscope software - GRYPHAX APP / Twain APP / DirectX APP / Software development kit

**Measured spectral sensitivity***:
- Absolute
- Relative

*based on EMVA 1288 standard compliance guidelines