



MORE LIGHT

JENOPTIK GRYPHAX® AVIOR

Explore your micro universe cost efficient
with 2 & 8 MPix | 4K.

Camera properties

Sensor Size	●	○	○	○
Sensitivity	●	○	○	○
Frame Rate	●	●	●	○
Resolution	●	●	●	○



color



uncooled



inactive

Recommended: Applications

Life & Medical Science	○	○	○	○
Education Life & Medical Science	●	●	●	○
Material & Manufacturing	○	○	○	○
Education Material & Manufacturing	●	●	●	○
Fluorescence	○	○	○	○
Education Fluorescence	○	○	○	○

Contrast techniques

BF	●	●	●	●
DF	●	○	○	○
DIC	●	○	○	○
Ph	●	○	○	○
Pol	●	○	○	○

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

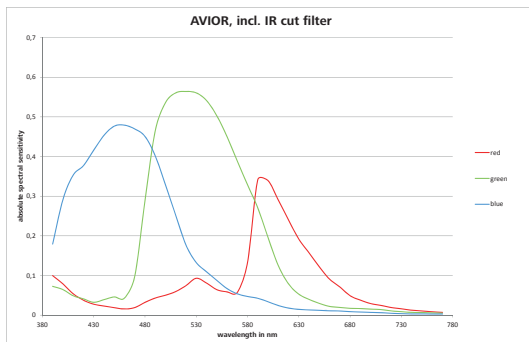
CAMERA

Camera resolution & speed in LIVE mode	1920 x 1080 pixel 30 fps
Camera resolution in RECORD mode	1920 x 1080 pixel 2.1 MPix 3840 x 2160 pixel 8.3 MPix
Camera resolution & speed in VIDEO mode	FULL HD - 1920 x 1080 pixel up to 25 fps
Camera resolution & speed in SLOW MOTION mode	FULL HD - 1920 x 1080 pixel up to 30 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
Power consumption	Appr. 4.5 W
Hardware Trigger	NO
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

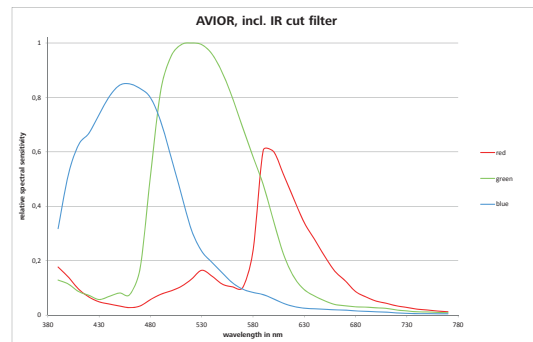
RECOMENDED SYSTEM REQUIREMENTS

Personal computer	Intel i7 Quad-Core (min. 3.0 GHz) processor or comparable 8 GB RAM (dual-channel)
Operating system -64 Bit	Win 10 (build 1903 or newer) macOS Catalina / Big Sur Linux Ubuntu 18.04 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 / Micro-Manager / MetaMorph / Software development kit

Measured spectral sensitivity*: Absolute



Relative



*based on EMVA 1288 standard compliance guidelines

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