JENOPTIK

MORE LIGHT

JENOPTIK GRYPHAX® AVIOR

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

Camera properties				
Sensor Size	✓	✓	✓	✓
Sensitivity	✓	✓	✓	✓
Frame Rate	✓	✓	✓	✓
Resolution	✓	✓	✓	✓

color uncooled inactive

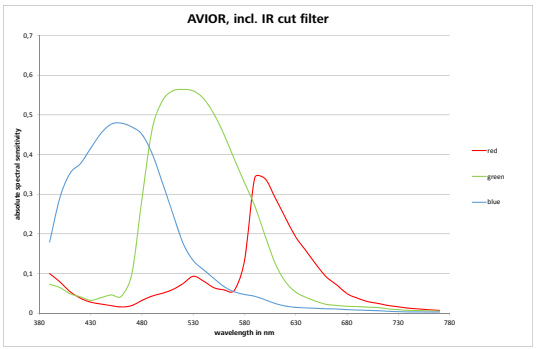
Recommended: Applications				
Life & Medical Science	✓	✓	✓	✓
Education Life & Medical Science	✓	✓	✓	✓
Material & Manufacturing	✓	✓	✓	✓
Education Material & Manufacturing	✓	✓	✓	✓
Fluorescence	✓	✓	✓	✓
Education Fluorescence	✓	✓	✓	✓

Contrast techniques				
BF	✓	✓	✓	✓
DF	✓	✓	✓	✓
DIC	✓	✓	✓	✓
Ph	✓	✓	✓	✓
Pol	✓	✓	✓	✓

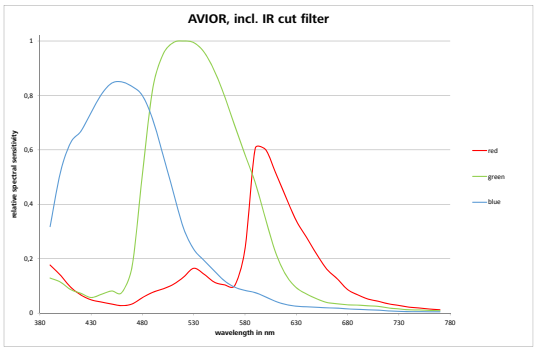
JENOPTIK GRYPHAX® AVIOR - technical data
Superior solution for education applications

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 I shutter mode	All pixel scan I rolling shutter
CAMERA	
Camera resolution & speed in LIVE mode	1920 x 1080 pixel I 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 I 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 | 8 GB RAM
Operating system -64 Bit	Win 7 SP1 / Win 8.1 / Win 10 I MacOS High Sierra / Mojave I 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

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07/2019 | Specifications may change in compliance with our quality management system.