JENOPTIK

MORE LIGHT

JENOPTIK GRYPHAX® SUBRA

Explore your micro universe in full HD.

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

color uncooled active

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

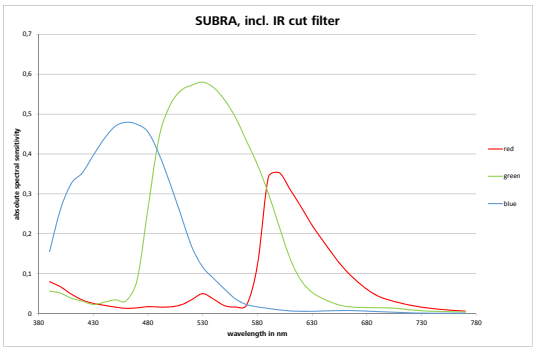
Contrast techniques				
BF	✓	✓	✓	✓
DF	✓	✓	✓	✓
DIC	✓	✓	✓	✓
Ph	✓	✓	✓	✓
Pol	✓	✓	✓	✓

JENOPTIK GRYPHAX® SUBRA - technical data
Exclusive solution for fluorescence applications

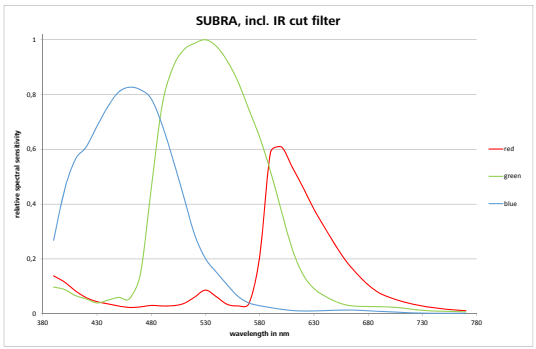
IMAGE SENSOR	
Type Square Utilised sensor diagonal	SONY back-illuminated CMOS 1/1.2" 13.3 mm
Pixel dimensions	5.86 x 5.86 µm
Color or monochrome	Color
Transfer method I shutter mode	All pixel scan I global shutter
CAMERA	
Camera resolution & speed in LIVE mode	1920 x 1200 pixel I 30 fps
Camera resolution 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 (λ)
Dark Noise [DN / e-]*	1.6 DN / 5 e-
Saturation capacity*	12.500 e-
Dynamic range*	67 dB
Filter	IR cut I 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
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 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.