



MORE LIGHT

JENOPTIK GRYPHAX® KAPELLA

Explore your micro universe – colored in low light & bright field.

Camera properties

Sensor Size	✓ ✓ ✓ ✓
Sensitivity	✓ ✓ ✓ ✓
Frame Rate	✓ ✓ ✓ ✓
Resolution	✓ ✓ ✓ ✓



color



cooled



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® KAPELLA - technical data

Superior 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 μ m
Color or monochrome	Color (measured)
Transfer method shutter mode	All pixel scan global shutter

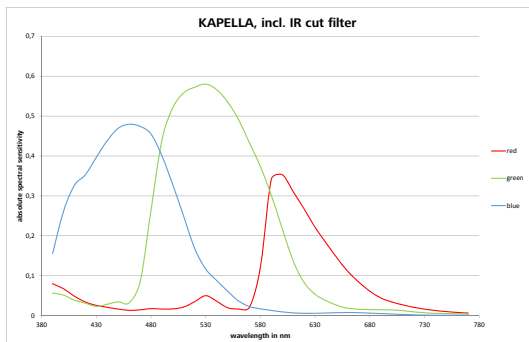
CAMERA

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 μ s - 1 s
Exposure time RECORD min. - max.	26 μ s - 60 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)*	0.6 QE (λ)
Dark Noise [DN / e-]*	0.8 DN / 6 e-
Saturation capacity*	32.000 e-
Dynamic range*	73 dB
Filter	IR cut 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

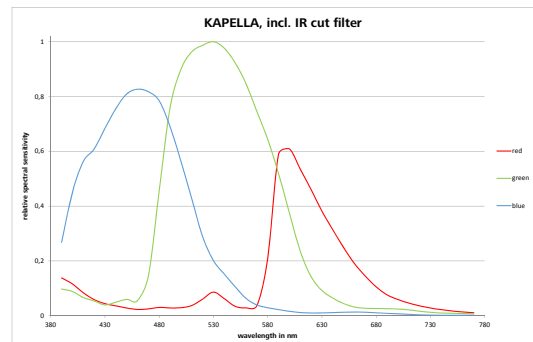
RECOMMENDED SYSTEM REQUIREMENTS

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



Relative



*based on EMVA 1288 standard compliance guidelines

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