



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	●	●	●	●

Your BeNeLux Distributor



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photonics. our passion!

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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 µm
Color or monochrome	Color (measured)
Transfer method I shutter mode	All pixel scan I global shutter

CAMERA

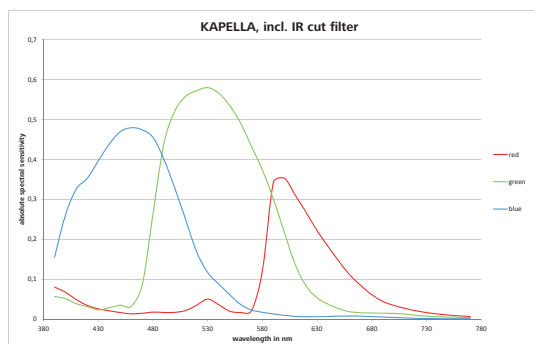
Camera resolution & speed in LIVE mode	960 x 600 pixel I 120 fps 1920 x 1200 pixel I 120 fps
Camera resolution in RECORD mode	960 x 600 pixel I 0.6 MPix 1920 x 1200 pixel I 2.3 MPix
Camera resolution & speed in VIDEO mode	FULL HD - 1920 x 1200 pixel up to 25 fps
Camera resolution & speed in SLOW MOTION mode	1920 x 1200 pixel up to 120 fps
Exposure time LIVE min. - max.	26 µs - 1 s
Exposure time RECORD min. - max.	26 µs - 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 (Å)
Dark Noise [DN / e-]*	0.8 DN / 6 e-
Saturation capacity*	32.000 e-
Dynamic range*	73 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

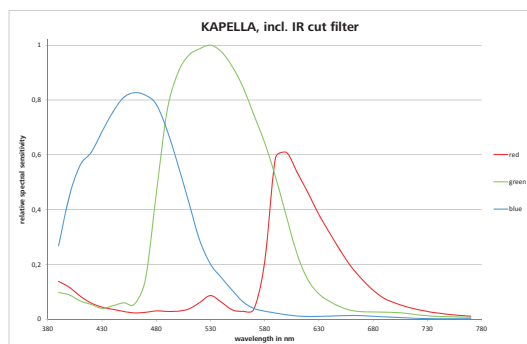
Personal computer	Intel i7 Quad-Core (min. 3.0 GHz) processor or comparable 8 GB RAM (dual-channel)
Operating system -64 Bit	Win 10 (build 1903 or newer) I macOS Catalina / Big Sur I Linux Ubuntu 18.04 LTS
Data interface	USB 3.0 integrated, no extra power supply needed
Monitor resolution	1920 x 1200 or higher
Software (included in the package)	Microscope software - GRYPHAX APP / Twain APP / DirectX APP / Micro-Manager / MetaMorph / Software development kit

Measured spectral sensitivity*:

Absolute



Relative



*based on EMVA 1288 standard compliance guidelines

***unique vibration-free software cooling developed by JENOPTIK (further informaion gryphax@jenoptik.com)

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