



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

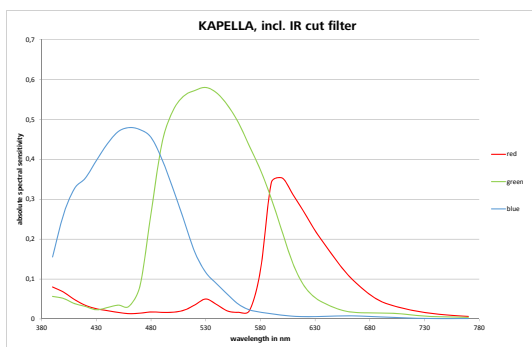
CAMERA

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 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 (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

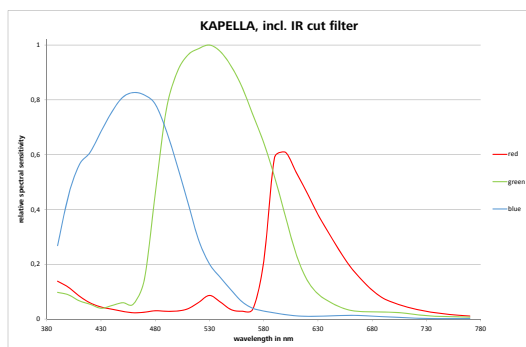
RECOMMENDED SYSTEM REQUIREMENTS

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



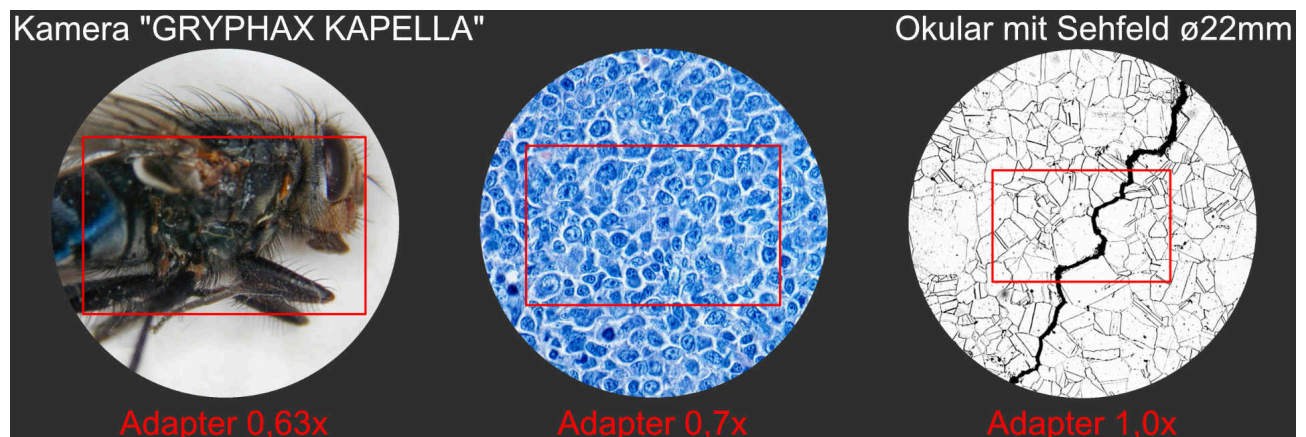
*based on EMVA 1288 standard compliance guidelines

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

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Zum Anschluß an Ihr Mikroskop benötigen Sie einen „Kamera-Adapter mit C-Mount“. Diese Adapter haben eine Optik eingebaut um die Sensorgröße der Kamera an das Mikroskop anzupassen.



Auf diesem Bild sehen Sie die Bildausschnitte, die Sie mit der Kamera JENOPTIK „GRYPHAX KAPELLA“, an ein Mikroskop mit Okularen „10x(22)“, erhalten würden.

Wir empfehlen für einen Kamera-Adapter mit Optik **0,63x** oder **0,7x** zu verwenden.

Weitere Informationen zur Kamera und der Software finden Sie unter www.mikroskoptechnik.de

Haben Sie weitere Fragen oder benötigen ein Angebot - rufen Sie uns unter Telefon [03641-828080](tel:03641-828080) an oder schreiben uns eine eMail verkauf@mikroskoptechnik.de