



MORE LIGHT

JENOPTIK GRYPHAX® PROKYON

Explore your micro universe with the flagship and real measured color.

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® PROKYON - 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

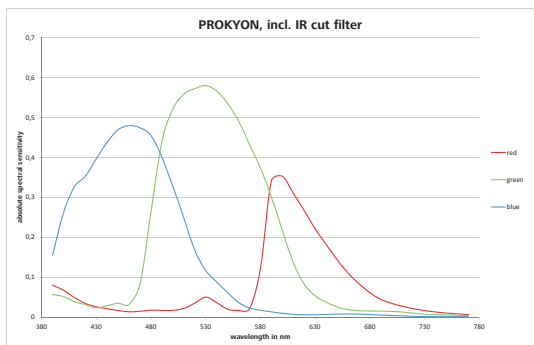
Camera resolution & speed in LIVE mode	960 x 600 pixel   120 fps   1920 x 1200 pixel   120 fps
Camera resolution in RECORD mode	960 x 600 pixel   0.6 MPix   1920 x 1200 pixel   2.3 MPix   1920 x 1200 pixel (scan)   2.3 MPix   3840 x 2400 pixel (scan)   9.2 MPix   5760 x 3600 pixel (scan)   20.7 MPix
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 (λ)
Dark Noise [DN / e-]*	0.8 DN / 6 e-
Saturation capacity*	33.000 e-
Dynamic range*	73.3 dB
Filter	IR cut   optional clear-glass
Power consumption	Appr. 4.5 W
Hardware Trigger	OUT
Weight	Appr. 420 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

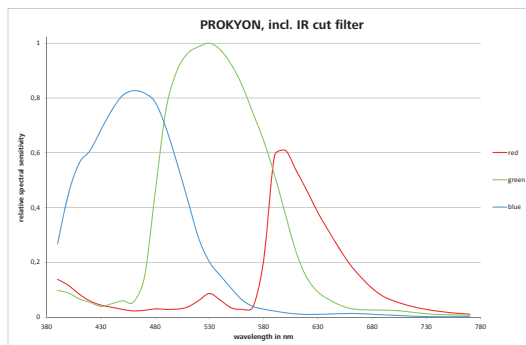
Personal computer	Intel i7 Quad-Core (min. 3.0 GHz) processor or comparable   8 GB RAM (dual-channel)
Operating system -64 Bit	Win 10 (build 1903 or newer)   macOS Catalina / Big Sur   Linux Ubuntu 18.04 LTS
Data interface	USB 3.0 integrated, no extra power supply needed
Monitor resolution	1920 x 1200 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 information gryphax@jenoptik.com)

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