



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 I shutter mode	All pixel scan I global shutter

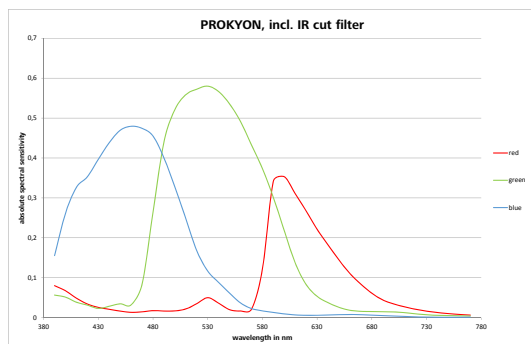
### CAMERA

Camera resolution & speed in LIVE mode	960 x 600 pixel I 60 fps   1920 x 1200 pixel I 60 fps
Camera resolution in RECORD mode	960 x 600 pixel   1920 x 1200 pixel   920 x 1200 pixel (scan)   3840 x 2400 pixel (scan)   5760 x 3600 pixel (scan)
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*	33.000 e-
Dynamic range*	73.3 dB
Filter	IR cut I 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

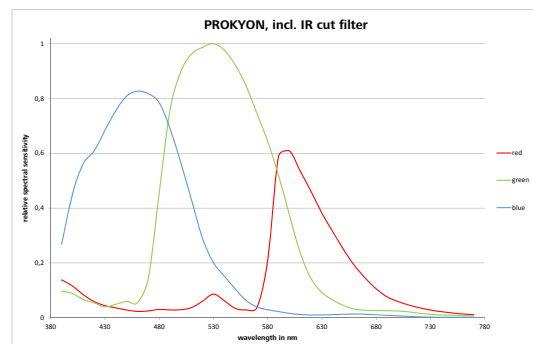
### RECOMENDED SYSTEM REQUIREMENTS

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

JENOPTIK Optical Systems GmbH  
 Goeschwitzer Strasse 25 | 07745 Jena | Germany  
 Phone +49 3641 65-2143 | Fax +49 3641 65-2144  
 gryphax@jenoptik.com | www.jenoptik.com



MicroscopeWorld

info@microscopeworld.com | 800-942-0528