



MORE LIGHT

JENOPTIK GRYPHAX® NAOS

Explore your micro universe with revolutionary 5 & 20 MPix.

Camera properties

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



color



uncooled



inactive

Recommended: Applications

Life & Medical Science	✓ ✓ ✓ ✓
Education Life & Medical Science	✓ ✓ ✓ ✓
Material & Manufacturing	✓ ✓ ✓ ✓
Education Material & Manufacturing	✓ ✓ ✓ ✓
Fluorescence	✓ ✓ ✓ ✓
Education Fluorescence	✓ ✓ ✓ ✓

Contrast techniques

BF	✓ ✓ ✓ ✓
DF	✓ ✓ ✓ ✓
DIC	✓ ✓ ✓ ✓
Ph	✓ ✓ ✓ ✓
Pol	✓ ✓ ✓ ✓

IMAGE SENSOR

Type Square Utilised sensor diagonal	SONY back-illuminated CMOS 1" 15.6 mm
Pixel dimensions	2.4 x 2.4 µm
Color or monochrome	Color
Transfer method I shutter mode	All pixel scan I rolling shutter

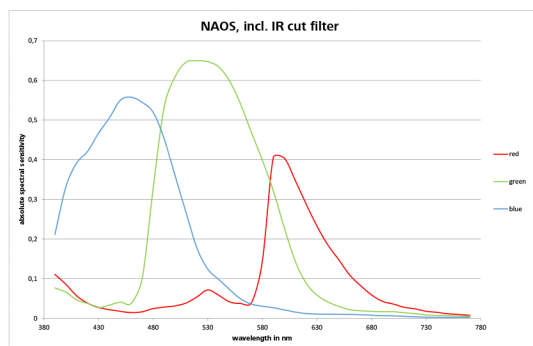
CAMERA

Camera resolution & speed in LIVE mode	1800 x 1200 pixel I 50 fps 2700 x 1800 pixel I 30 fps
Camera resolution in RECORD mode	1800 x 1200 pixel 2700 x 1800 pixel 5400 x 3600 pixel
Camera resolution & speed in VIDEO mode	1800 x 1200 pixel up to 25 fps
Exposure time LIVE min. - max.	51µs - 1 s
Exposure time RECORD min. - max.	51µs - 30 s
Gain	Max. 30
Cooling	NO
A/D conversion digital output	12 bit (4096 grey values) 16 bit
Absolute sensitivity threshold*	3.8 e-
Quantum Efficiency @ 532 nm (green)*	0.66 QE (λ)
Dark Noise [DN / e-]*	0.9 DN / 3 e-
Saturation capacity*	15.000 e-
Dynamic range*	72 dB
Filter	IR cut I optional clear-glass
Power consumption	Appr. 3 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

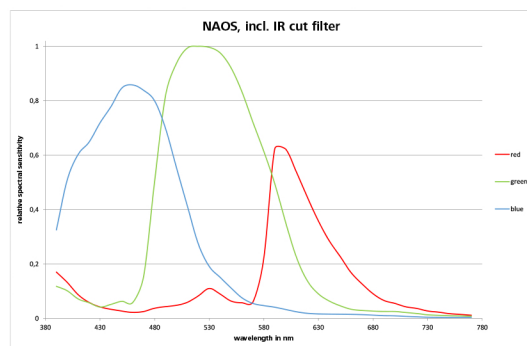
RECOMENDED SYSTEM REQUIREMENTS

Personal computer	Intel i7 Quad-Core (min. 3.0 GHz) processor 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	3840 x 2160 pixel 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



We show quality
Nous rendons la qualité visible
Wir machen Qualität sichtbar

Bettlachstrasse 2 | 2540 Grenchen | Switzerland
phone +41 32 654 21 00 | +41 22 776 82 28
ryfag@ryfag.ch | www.ryfag.ch