



MORE LIGHT

JENOPTIK GRYPHAX® ARKTUR

Explore your micro universe with revolutionary 3 & 8 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

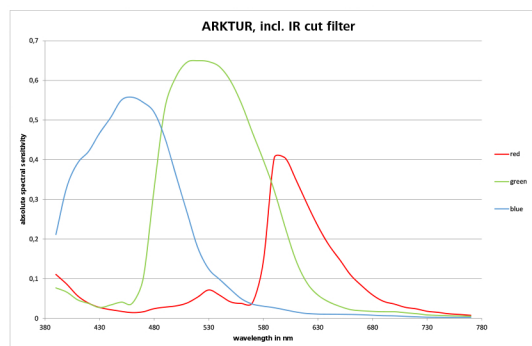
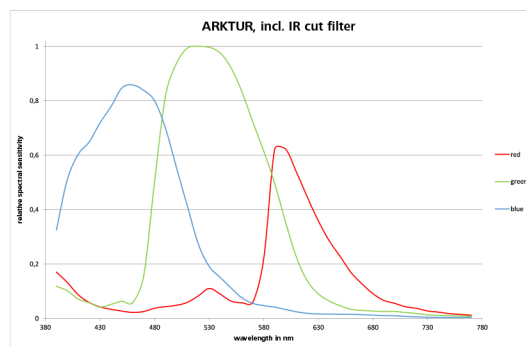
Type Square Utilised sensor diagonal	SONY back-illuminated CMOS 2/3" 10.6 mm
Pixel dimensions	2.4 x 2.4 µm
Color or monochrome	Color
Transfer method I shutter mode	All pixel scan I rolling shutter

CAMERA

Camera resolution & speed in LIVE mode	1920 x 1080 pixel I 50 fps 2560 x 1440 pixel I 30 fps 3840 x 2160 pixel I 30 fps
Camera resolution in RECORD mode	1920 x 1080 pixel 2560 x 1440 pixel 3840 x 2160 pixel
Camera resolution & speed in VIDEO mode	FULL HD - 1920 x 1080 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	10 bit (1024 grey values) 16 bit
Absolute sensitivity threshold*	7.8 e-
Quantum Efficiency @ 532 nm (green)*	0.65 QE (λ)
Dark Noise [DN / e-]*	0.5 DN / 6 e-
Saturation capacity*	14.700 e-
Dynamic range*	66 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 HS	Yes

RECOMENDED SYSTEM REQUIREMENTS

Personal computer	Intel i7 (Quad-Core) processor or comparable / 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

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Wir machen Qualität sichtbar

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