



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

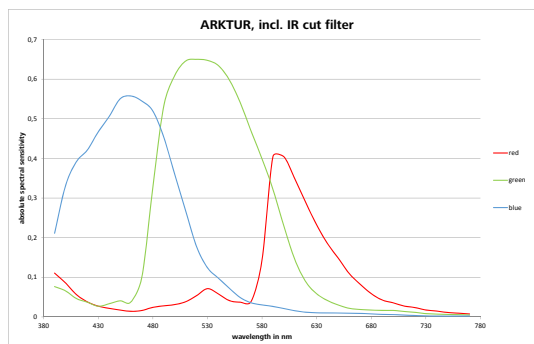
BF	✓ ✓ ✓ ✓
DF	✓ ✓ ✓ ✓
DIC	✓ ✓ ✓ ✓
Ph	✓ ✓ ✓ ✓
Pol	✓ ✓ ✓ ✓

# JENOPTIK GRYPHAX® ARKTUR - technical data

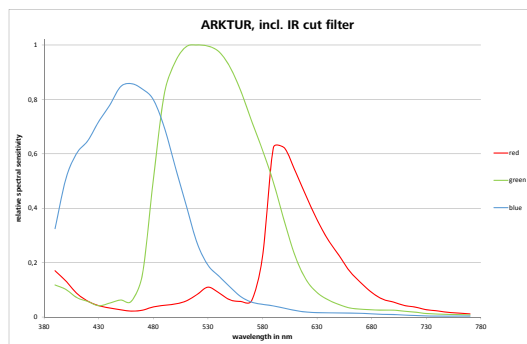
Exclusive solution for life & medical science | material & manufacturing applications

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   shutter mode	All pixel scan   rolling shutter
CAMERA	
Camera resolution & speed in LIVE mode	1920 x 1080 pixel   50 fps   2560 x 1440 pixel   30 fps   3840 x 2160 pixel   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.	51 µs - 1 s
Exposure time RECORD min. - max.	51 µs - 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   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
RECOMMENDED 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   MacOS High Sierra / Mojave   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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