



MORE LIGHT

JENOPTIK GRYPHAX® ALTAIR

Explore your micro universe cost efficient
with 3 & 12 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

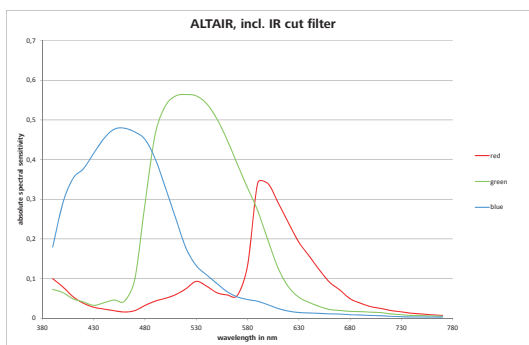
BF	● ● ● ●
DF	● ○ ○ ○
DIC	● ○ ○ ○
Ph	● ○ ○ ○
Pol	● ○ ○ ○

JENOPTIK GRYPHAX® ALTAIR - technical data

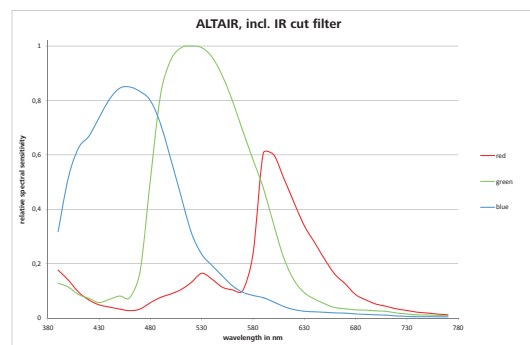
Superior solution for education applications

IMAGE SENSOR	
Type Square Utilised sensor diagonal	SONY back-illuminated CMOS 1/1.75" 9.3 mm
Pixel dimensions	1.85 x 1.85 µm
Color or monochrome	Color
Transfer method shutter mode	All pixel scan rolling shutter
CAMERA	
Camera resolution & speed in LIVE mode	1000 x 750 pixel 20 fps 2000 x 1500 pixel 20 fps
Camera resolution in RECORD mode	1000 x 750 pixel 0.75 MPix 2000 x 1500 pixel 3 MPix 4000 x 3000 pixel 12 MPix
Camera resolution & speed in VIDEO mode	2000 x 1500 pixel up to 20 fps
Camera resolution & speed in SLOW MOTION mode	2000 x 1500 pixel up to 20 fps
Exposure time LIVE min. - max.	52 µs - 1 s
Exposure time RECORD min. - max.	52 µs - 15 s
Gain	Max. 15
Cooling	NO
A/D conversion digital output	10 bit (1024 grey values) 16 bit
Absolute sensitivity threshold*	5.7 e-
Quantum Efficiency @ 532 nm (green)*	0.57 QE (λ)
Dark Noise [DN / e-]*	0.5 DN / 4 e-
Saturation capacity*	10.000 e-
Dynamic range*	65 dB
Filter	IR cut optional clear-glass
Power consumption	Appr. 4.5 W
Hardware Trigger	NO
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 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	3840 x 2160 pixel 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

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

