海纳光学

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irvi infrared viewers

ADOS-TECH, UAB
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www.ir-viewers.com
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PixIR

Converts 400-1700nm radiation to visible

LED

Eyepiece

Iris
adjustment ring

Focus
adjustment
ring

Screen brightness
adjustment buttons

ND filter (included)

Tripod thread

Button ACTIVATE

Handle

Battery holder cap
Magnetic fixture

RoHs
CE
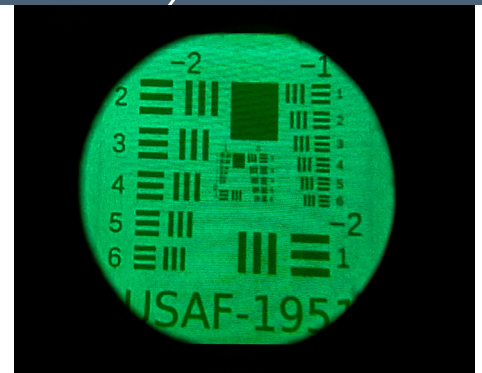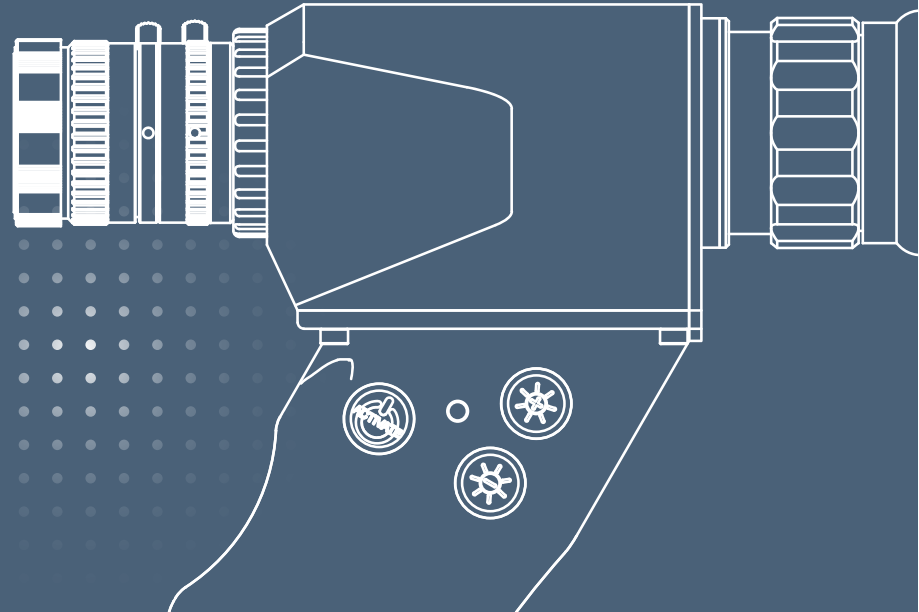
APPLICATIONS:

- Position and alignment of Nd: YAG Yb:YAG, Yb:KGW, Ti:Sapphire and other IR lasers
- Identification of stray IR reflectations
- Observation of GaAs laser diodes, IR LED's, dye and other IR-sources
- Forensic analysis on inks, pigments

MAIN FEATURES:

- Wide spectral region 400 - 1700 nm
- Lightweight and ergonomic design
- High contrast
- High sensitivity
- Excellent image quality
- Hand-held
- Works with C-mount lenses
- Pulsed and CW light detection
- Turns off in 2 min
- >10 hour working time

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POWER DENSITY

Threshold power density dependance on wavelength. The threshold power density is defined by measuring a laser beam spot on a paper, which exhibits 20% of the overall brightness (calculated as 255 × 20% = 51), in contrast to the background. The measurements were taken with the camera positioned 1.15 meters away from the piece of paper.
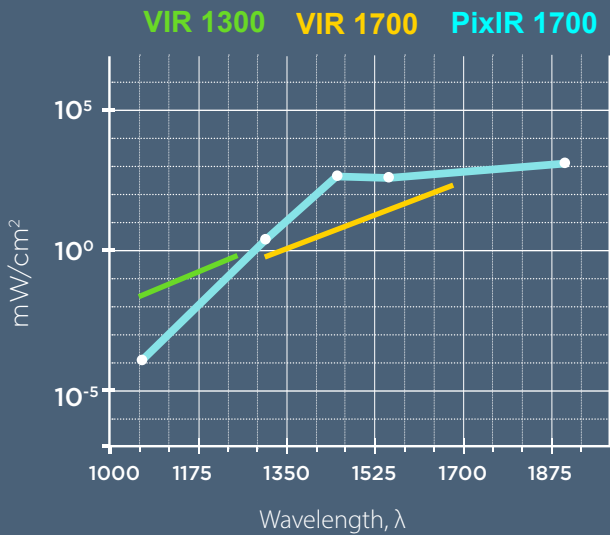
BRIGHTNESS LEVELS

Normalised brightness dependence on power difference from the minimum value. The power level of 0 signifies the theoretical minimal value at which the laser beam spot becomes observable on a piece of paper. It's worth noting that the camera exhibits lower sensitivity to laser light at 1450nm compared to 1550nm or even 1900nm.

VIR 1300   VIR 1700   PixIR 1700

Wavelength, λ

1310   1450   1550   1900

Δ Power, mW
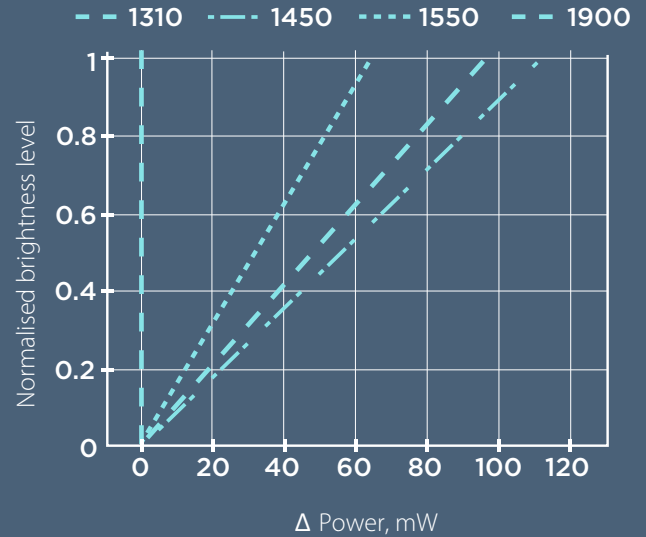
TECHNICAL INFORMATION

	MODEL 1X	MODEL 2X
SPECTRAL RANGE	PixIR 400-1700 nm	
FIELD OF VIEW	38°	19°
MAGNIFICATION	1X	2X
MOD*	0.1 m to ∞	0.5 m (0.15m) to ∞
Objective lens	F1.3/8 mm	F1.4/16 mm
Resolution (center)	30 Lp/mm	
Adjustable iris	Included	
Distortion of image	0.5 %	
2x 18650 batteries life fully charged	continues 11h	
Weight without batteries and lenses	0.36 kg	
Weight with batteries	0.45 kg	
Dimensions	153 x 175 x 51 mm	

* minimal object distance, these values can be adjusted by customer request

Accessories (included)

Neutral density filter for lens 1X(0.5% @ 1064nm) • Neutral density filter for lens 2X(0.5% @ 1064nm) • Lens