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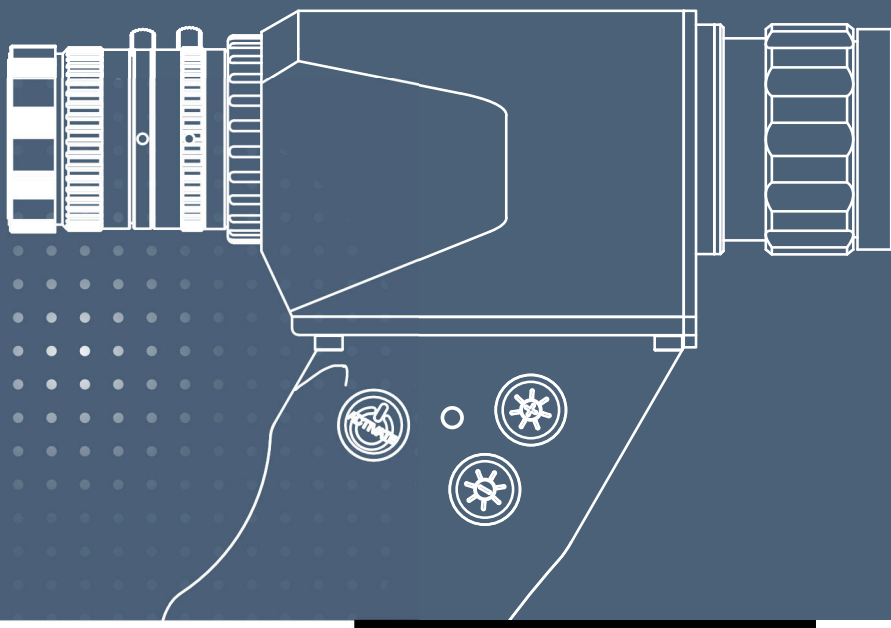
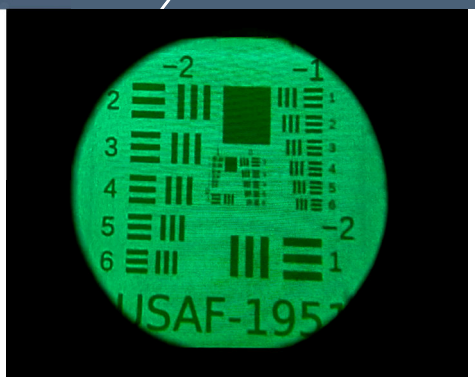
PixIR

Converts 400-1700nm radiation to visible





APPLICATIONS:

- Positioning and alignment of Nd:YAG, Yb:YAG, Yb:KGW, Ti:Sapphire, and other IR lasers
- Identification of stray IR reflections
- Observation of GaAs laser diodes, IR LEDs, dyes, and other IR sources
- Forensic analysis of inks and pigments

MAIN FEATURES:

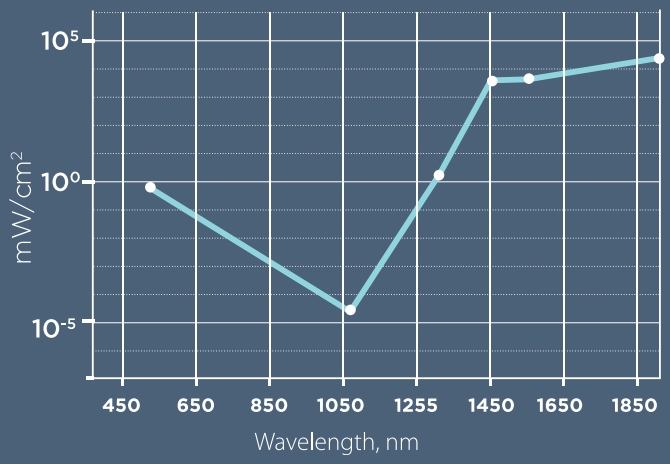
- Wide spectral range 400 - 1700 nm
- Lightweight and ergonomic design
- High contrast and sensitivity
- Excellent image quality
- Hand-held
- Compatible with C-mount lenses
- Pulsed and CW light detection
- Auto power-off after 2 minutes
- > 9 hours of operation time

RoHs

CE

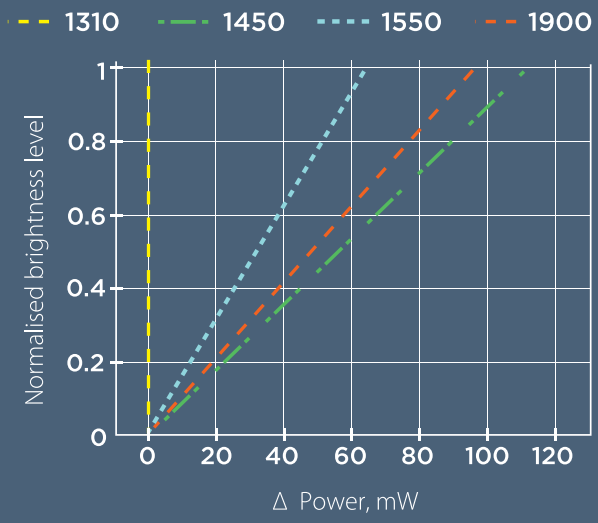
Minimal Power density

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 viewer 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 viewer exhibits lower sensitivity to laser light at 1450nm compared to 1550nm or even 1900nm.



Accessories available

- Neutral density filter to lens 1X (3-5%@1064 nm)
- Neutral density filter to lens 2X (3-5%@1064 nm)
- Lens 2X (F1.4/16 mm)
- Lens 1X F(1.3/8 mm)

TECHNICAL INFORMATION

	MODEL 1X	MODEL 2X
SPECTRAL RANGE	PixIR 400-1700 nm	
FIELD OF VIEW	38°	19°
MAGNIFICATION	1X	2X
FOCUS	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	