



# Infrared (IR) viewers

## Main features

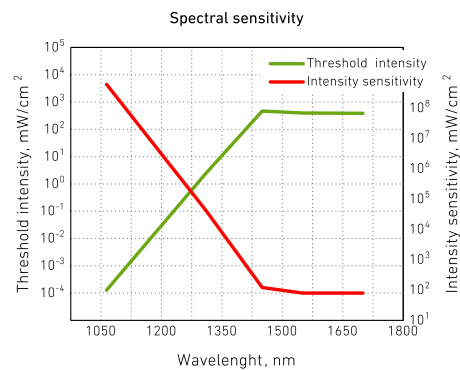
- Spectral region 400 - 1700 nm
- Resolution > 30 Lp/mm
- Hand-held / post mounted
- Up to 10 hours battery life, rechargeable
- Pulsed and CW light detection

## Application examples

- Location 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

The digital version of the IR viewer is based on the multiphoton absorption (MPA) phenomenon when the laser wavelength exceeds the linear spectral detection range of the silicon material.

In addition, the process of photoelectrons requires spatial and temporal filtering from noise to enhance the visualization of IR photons beyond the 1.1 μm spectrum. By adjusting the gain on a pixel-by-pixel basis, it is possible to achieve imaging up to 1.7 μm.



## Standard specifications

IR-VIEWERS SPECIFICATIONS	
Resolution	>30 Lp/mm
Working distance of lens	12.5 (+/-0.2) mm
Distortion of image	<0.5 %
Battery life (continuous)	Up to 10 hours battery life, rechargeable 2x 18650 batteries
Weight	0.4 kg
Dimensions	153 x 175 x 51 mm

## Standard products

FIELD OF VIEW	MAGNIFICATION	OBJECTIVE LENS	ADJUSTABLE IRIS	FOCUS	SPECTRAL SENSITIVITY	SKU
38°	1X	F1.3/8 mm	Included	0.1 m to infinity	400 - 1700 nm	31150
19°	2X	F1.4/16 mm	Included	0.5 m to infinity	400 - 1700 nm	31152