

PORTABLE, VERSATILE

HANDHELD INFRARED (IR) VIEWERS



Infrared (IR) viewers convert near-IR radiation into visible light via an image-converter tube so you can see otherwise invisible IR emission or reflection for setup, alignment, inspection, and troubleshooting.

Both models support continuous-wave (CW) and pulsed sources (ps- μ s) without external synchronization, and are optimized for observing the projection of a beam spot on a diffusely reflecting target (e.g., white card or metal)—not for direct in-air beam viewing.

Typical applications:

- Laser alignment (e.g., Nd:YAG, Yb:YAG, Yb:KGW, Ti:Sapphire) and identification of stray reflections
- Observation of GaAs laser diodes, IR LEDs, dyes, other IR sources
- Semiconductor wafer inspection (Si, GaAs) with microscope adapters
- Forensics/art restoration; photo processing; food sorting; fluid inspection; vein/blood-vessel visualization

Main Features:

- Wide spectral ranges available
- Pulsed and CW light detection*
- High contrast and sensitivity
- Lightweight and portable design
- Handheld or post mounted

Available Accessories:

- 1X Magnification Lens for IRV3
- 2X Magnification Lens for IRV3

*Adequate pulse energy and wavelength required for detection



RoHS
CE



	IRX3		IRV3	
Spectral range	IRX3(1700): 400–1700 nm		IRV3(1300): 350–1300 nm IRV3(1700): 350–1700 nm IRV3(2000): 350–2000 nm	
Resolution (center)	30 lp/mm		60 lp/mm	
Magnification	1X	2X	1X	2X
Field of view (FOV)	38°	19°	40°	20°
Focus range	0.1 m \rightarrow ∞	0.5 m (0.15 m*) \rightarrow ∞	0.1 m \rightarrow ∞	0.5 m (0.15 m*) \rightarrow ∞
Objective lens	F1.3 / 8 mm	F1.4 / 16 mm	F1.4 / 25 mm	F1.8 / 50 mm
Adjustable iris	Included		Included	
Image distortion	0.5 %		20 %	
Power / battery	2 \times 18650 Li-ion (field-swappable)		Internal Li-Po	
Runtime (typical)	\approx 11 h continuous		Up to 60 h per charge	
Charging	External 18650 charger (included)		USB-C, 5 V / 500 mA	
Mounting	1/4-20 thread; C-mount lens compatible		1/4-20 thread; camera/CCD adapters available	
Dimensions (L\timesH\timesD)	153 \times 175 \times 51 mm		153 \times 173 \times 51 mm	
Weight	0.36 kg (device only)		0.316 kg (device only)	
Operating temp.	-10 °C to +40 °C		-10 °C to +40 °C	
Included kit	Viewer, lens (1X or 2X), ND filters OD1 & OD2, charger, case		Viewer, lens (1X or 2X), IR filter, USB-C charger, case	Viewer, lens (1X or 2X), macro ring, IR filter, USB-C charger, case

