

PORTABLE, VERSATILE

# HANDHELD INFRARED (IR) VIEWERS



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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- $\mu$ 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



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

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