IRV3 Series
Allows 350-2000 nm visibility
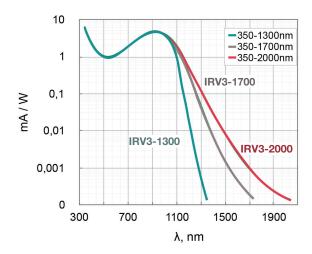
mks | Newport™

Product Features

- Wide spectral range 350 – 2000 nm

- Lightweight and ergonomic design

- High contrast

- High sensitivity

- Excellent image quality

- Hand-held / post mounted

- Works with C-mount lenses (with adapter)

- Battery life of 50 hours when fully charged

- Pulsed and CW light detection without synchronisation

- Interfaces to CCTV cameras

Applications

- Location 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 LED's, dye and other IR-sources

- Forensic analysis on inks and pigments

RoHs CE

Accessories available

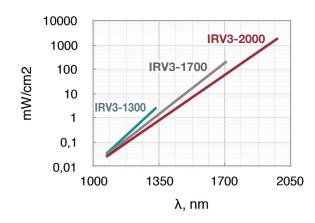|	
Neutral density filters to lens 1x (3-5%@1064nm)	IRV-ND
Microscope adapter	IRV-MA
Facemask for hands free operation	IRV-HB
C-mount Camera adapter	IRV-CA

How does it work?

Infrared viewer focus emitted or reflected light from a chosen subject into the image tube where an electron image is generated. When powered (with battery or power supply) a 16-18 kV voltage is generated to accelerate the electron image into the output phosphor screen. The fluorescent green light output (550 nm) is observed via an adjustable eyepiece lens.

Power density
Approximate minimum of power densities required to view an infrared laser beam from a distance of one meter:

Technical parameters

Lens	1 (1X)	2 (2X)
Spectral sensitivity	(350-1300nm) IRV3-1300	
	(350-1700nm) IRV3-1700	
	(350-2000nm) IRV3-2000	
Resolution (center)	60 Lp/mm	60 Lp/mm
Field of view	40°	20°
Magnification	1X	2X
Objective lens	F1.4/26mm	F1.8/50mm
Adjustable iris	Included	Included
Focus	0.15m (0.05m)* to inf	0.5m (0.15m)* to inf
Working distance of lens	12.5 (+/0.2) mm	12.5 (+/0.2) mm
Non-uniformity of screen	<20%	
Non-uniformity of response	<15%	
Distortion of image	<18%	
Battery life (continuous)	50 hours	
Weight	0.42kg	
Dimensions	145x78x52 mm	
Temperature range	-10°C...40°C	
Tripod or handle connection	R"1/4"	

* with distance ring