

WHAT'S YOUR WAVELENGTH?

WE'VE GOT THAT!



## Infrared Viewer

## High-performance IR Viewing

### DESCRIPTION

Our IRV2 infrared viewing device is an excellent choice for observation of IR light emitted by sources like bulbs, LEDs and lasers. The hand-held viewer is available in several versions that cover three spectral ranges: 350 to 2000 nm, 350 to 1700 nm, or 350 to 1300 nm. In addition being handheld, the IRV2 may be rigidly mounted using its 1/4-20 internal threads or attached to an optional face mask for hands-free operation. The infrared viewer operates from an internal AAA battery or can plug into an external 3V supply (not included).

### APPLICATIONS

- Laser alignment and safety
- Laser service technicians
- Forensics
- Semiconductors inspection
- Thermal imaging
- Photo processing
- Telecommunications
- IR luminescence
- IR Microscopy
- Art restoration
- Fiber optic diagnostic

### FEATURES & BENEFITS

- 350 - 2000 nm spectral range
- 1.5V power from one AAA battery
- Plug for external 3V power
- Post mounting with 1/4-20 internal threads
- Optional face mask for hands-free operation
- Multiple accessory options

## SPECIFICATIONS

	IRV2 (1300)	IRV2 (1700)	IRV2 (2000)
Spectral response	350 - 1300	350 - 1700	350 -2000
System resolution	60 lp/mm	60 lp/mm	60 lp/mm
Field of view	40° with 1X lens 20° with 2X	40° with 1X lens 20° with 2X	40° with 1X lens 20° with 2X
Standard lens	1X (F1.4/26 mm)	1X (F1.4/26 mm)	1X (F1.4/26 mm)
Optional lens	2X (F1.8/50 mm)	2X (F1.8/50 mm)	2X (F1.8/50 mm)
Focus (m)	0.15 to ∞ with 1X 0.25 to ∞ with 2X	0.15 to ∞ with 1X 0.25 to ∞ with 2X	0.15to ∞ with 1X 0.25 to ∞ with 2X
Input volt (VDC/mA max)	3/20	3/20	3/20
Battery type	1.5V AAA	1.5V AAA	1.5V AAA
Battery life (continous hours)	35	35	35
Temperature range (°C)	-10 to +40	-10 to +40	-10 to +40

## ACCESSORIES

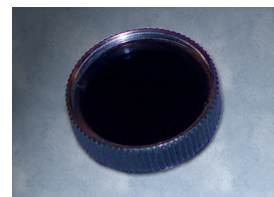
### 2X LENS

Provides 2X magnification of an object for larger images. The lens includes a built-in iris, as well as an IR viewer adapter, distance ring, and IR cut-off filter.



### INFRARED CUT-OFF FILTER

The IR cut-off filter blocks the transmission of the visible light while passing infrared to increase the contrast and resolution of infrared images.



### NEUTRAL-DENSITY FILTER

Used to decrease high power radiation from YAG and other solid-state lasers. Transmits light at 1064 nm only; transmission of the ND filter is 3 to 5% at 1064 nm.



### FACE MASK

The fully adjustable with flip-up mechanism and left/right eye rail adjustment enables hands-free operation.



## ACCESSORIES

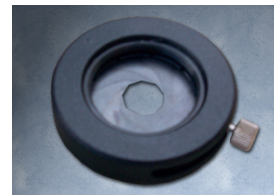
### INFRARED ILLUMINATOR

Detachable and focusable, it is intended for darkroom applications and for increased contrast in infrared images. It is not intended for viewing lasers or IR radiation. Specially designed lens system allows illumination of objects up to 20 meters in total darkness. Beam focus can be adjusted from 10 to 30 degrees.



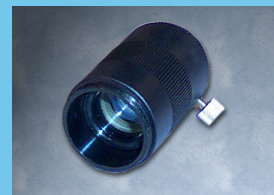
### IRIS DIAPHRAGM

Enables user to attenuate light seen by the viewer's detector surface. The accessory is for use with F1.4/26 mm and F1.6/26 mm lenses. The adjustable aperture allows a user to adjust the iris diameter between 2-20 mm and a thumb screw can be tightened to lock in the setting.



### C-MOUNT ADAPTER FOR CCD CAMERA

Interfaces between the IRV2 viewer (350 to 1300 nm, 350 to 1700 nm, and 350 to 2000 nm versions only) and any user-supplied C-standard CCD camera for video registration. An optional four-inch LCD-TFT monitor is available.



### CCD CAMERA OPTION

Designed for viewing, recording, and digitizing images in a near-IR spectral band, the CCD camera is ideal for real-time, hands-free monitoring. The unit's relay lens transmits light from the image converter screen to a high-resolution CCD camera (570 TV lines, 1/3) without distortions and with minimal loss of radiation.



### MICROSCOPE ADAPTER

Interfaces between the objective lens of viewer and a microscope eyepiece.

