

FIND-R-SCOPE®

Infrared Viewer



Photo courtesy of the University of Rochester



TYPICAL APPLICATIONS:

- Inspecting infrared emitting diodes
- Aligning laser systems
- Fiber optic alignment & verification
- Examining paintings and artwork
- Legal & historic document analysis
- Low-light surveillance
- Discreet nocturnal animal observation
- Biological/Biotech research
- Hot-spot observation
- Clinical medicine
- Photographic darkrooms
- Military aviation
- Forensics

MODEL VARIATIONS AVAILABLE:

- Standard model sensitive from 350-1350nm
- Optional model sensitive to 1550nm
- Laser Kit includes visible blocking filter & variable iris
- Models with C-mount lens capability
- Hands-free helmet mounted version
- Microscope mounted version
- Available with LED target illumination
- Ultraviolet models: 180-1350nm or 180-1550nm

ACCESSORIES:

- Close focus lens attachment (all models)
- Visible blocking filter attachment improves signal-to-noise ratio when viewing near-IR
- Variable iris attachment
- Variety of mounting accessories
- Variety of IR and UV filters
- C-mount models: optional high-res, wide-angle, telephoto and zoom lenses

The **FIND-R-SCOPE®** is a self-contained, hand-held infrared viewer operating in the near-infrared range of the spectrum. High resolution image converter tube, high voltage power supply and precision optics are combined to create a visible image for a clear view of objects which could not otherwise be seen with the naked eye.

The time-proven **FIND-R-SCOPE** is used by manufacturers and labs around the world.

- Most items are in stock for immediate shipment
- Lightweight, 22 oz.
- UL Labs Approved
- High resolution
- Self-contained
- Easy to operate
- Custom $f/1.0$, 25mm lens
- Powered by a single C-cell
 - Up to 350 hours of continuous operation
 - Tripod Mount
 - Includes hard-sided carrying case
 - Free Trial units available to confirm application

FJW Optical Systems, Inc.
Manufacturer of infrared viewers and cameras
www.findrscope.com

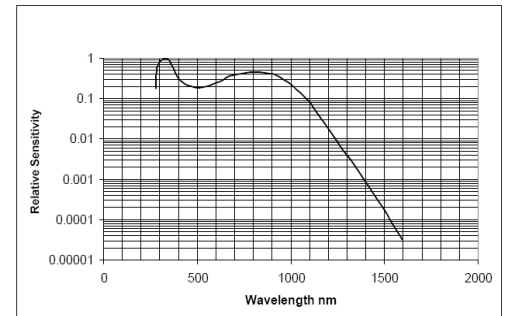
FIND-R-SCOPE® - INSTRUMENT, PART & ACCESSORY LIST

Effective 02-01-2014. Subject to change without notice.

Part #	Item	Description
84499	Find-R-Scope® 1350 nm	Hand-held, self contained, monocular near-infrared viewer w/spectral sensitivity from 350 to 1350 nm. Sensitivity tested with 1350 nm light from a 400µW LED up to 4.5m (15-ft.). Includes 25 mm F: 1.0 lens, 1x magnification, carrying case, battery, plus 18-month limited warranty. Allows use of "C- mount" lenses with an optional "C-mount" adapter P/N 85299.
84499-5	Find-R-Scope® 1550 nm	Same as 84499 except with spectral sensitivity up to 1550 nm. Tested to view 1550 nm light from a 350µW LED at up to 2.44m, (8-ft.).
85268	Find-R-Scope® Laser Package 1350 nm	Includes 84499 viewer, 80115 infrared filter, and 80451 variable iris. Save \$100.00 over purchased separate price.
85268-5	Find-R-Scope® Laser Package 1550 nm	Includes 84499-5 viewer, 80115 infrared filter and 80451 variable iris. Save \$110.00 over purchased separate price.
85300	Find-R-Scope® UV Scope 180 nm	UV Scope with multi-element quartz lens and special image converter tube with spectral sensitivity from 180-1350 nm.
85100	FRS, 1350 nm w/LED	Find-R-Scope with a permanently mounted 940 nm LED source.
84499A	Find-R-Scope® 1350 nm	Functionally identical to 84499 but does not accept "C- mount" lenses with an optional adapter. Note: Very limited availability.
84499A-5	Find-R-Scope® 1550 nm	Functionally identical to 84499 but does not accept "C- mount" lenses with an optional adapter. Note: Very limited availability.
Optional IR Viewer Accessories		
80115	Visible Blocking Filter	830 nm longpass filter blocks visible light for better signal-to-noise ratio. (Threshold min. @ 780 nm)
80380	Neck Strap	Convenient neck strap which screws into all hand held viewers.
80385	Wrist Strap	Convenient wrist strap which screws into all hand held viewers.
80389	Close-up Lens	Lens attachment to allow viewing within 2" of target, 5x magnification.
80451	Variable Iris	Attachment to control intensity & increase depth of field reducing the necessity of refocusing for changes in distance.
81850-1	Voltage Converter	Voltage converter to be plugged into 2-prong grounded outlet, allows for operation from 110VAC at 60HZ, includes 6' cord & adapter
For the 84499 Models Only		
85299	Adapter	Lens "C" mount adapter
85204	Zoom Lens	12.5-75 mm C-mount zoom lens with iris.
85432	50 mm Lens	50 mm C-mount f:1.3 camera lens with iris.
85225	25 mm Lens	25 mm C-mount f:1.4 camera lens with iris.
85206	16 mm Lens	16 mm C-mount f:1.6 camera lens with iris.
85255	8 mm Lens	8 mm C-mount f:1.3 camera lens with iris.

Product Specifications	
Field of View:	40°
Magnification	≈ 1:1
Standard Sensitivity:	300 to 1350 nm
Optional Sensitivities:	Out to 1550 nm (also to 180 nm)
Peak Sensitivity:	800 and 350 nm
Focal Range:	100 mm (4") to infinity
Resolution:	70 lines/mm minimum
Battery life:	>250 hrs continuous
Power Supply Life:	2500 hours.
Dimensions:	152 X 54 X 178 mm (6" x 2-1/8" x 7")
Weight:	625g (22 oz)
Operating Temp:	-32°C to 46°C (-25°F to 115°F)

Typical Spectral Response



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Note: See bulletin 85300X for Ultraviolet Models