

FIND-R-SCOPE®

Infrared Viewer



Model No.
84499



- **Lightweight**
- **UL approved**
- **High Resolution**
- **Simple to operate**
- **Custom F: 1.0,
25mm Lens**



The **FIND-R-SCOPE®** – is a self contained, hand-held infrared viewer operating in the near-infrared range of the spectrum. A high resolution image converter tube, and high voltage power supply combine with precision optics to permit a clear view of objects or images which could not otherwise be seen by the naked eye. The **FIND-R-SCOPE®** – has a wide variety of applications in many different industries, particularly when used with the available accessories. The close-up lens allows for viewing within 2" to align and verify fiber optic sources. IR filters increase the signal-to-noise ratio by blocking visible light when inspecting infrared emitting **diodes**, aligning **laser systems** and examining art and other **historic documents**. Other applications include – low light **surveillance**, **biological research**, **hot-spot observation**, **clinical medicine**, and **viewing in photographic darkrooms**.

FIND-R-SCOPE® - Infrared Viewer

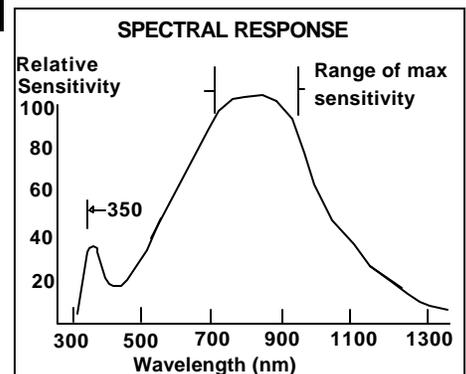


PARTS & ACCESSORIES PRICE LIST (3/01 subject to change without notice)

Part#	Item	Description
84499A	Find-R-Scope® 1350 nm	Hand-held, self contained, monocular near-infrared viewer w/ spectral sensitivity from 300 to 1350 nm. Sensitivity tested with 1350 nm light from a 400µW LED up to 15'. 25 mm F:1.0 lens, 1x magnification. Case, power supply & battery included, 18 month warranty.
84499A-5	Find-R-Scope® 1550 nm	84499A with spectral sensitivity up to 1550 nm, tested to view 1550 nm light from a 350µW LED at up to 8'.
85268A	Laser Package 1350 nm	Includes 84499A viewer, 80115 infrared filter & 80451 variable iris.
85268A-5	Laser Package 1550 nm	Includes 84499A-5 viewer, 80115 infrared filter & 80451 variable iris.
85300	UV Scope 180 nm	UV Scope with multi-element quartz lens and special image converter tube with spectral sensitivity from 180-1350 nm.
85100A	Find-R-Scope® 1350 nm w/LED	Find-R-Scope with a permanently mounted 940 nm LED source.
84499	Find-R-Scope® 1350 nm	Similar to 84499A but allows use of "C-mount" lenses with an optional "C-mount" adapter P/N 85299.
84499-5	Find-R-Scope® 1550 nm	Similar to 84499A-5 but allows use of "C-mount" lenses with an optional "C-mount" adapter P/N 85299.
Optional IR Viewer Accessories		
80115	Infrared Filter	830 nm longpass filter to absorb 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 mag.
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.

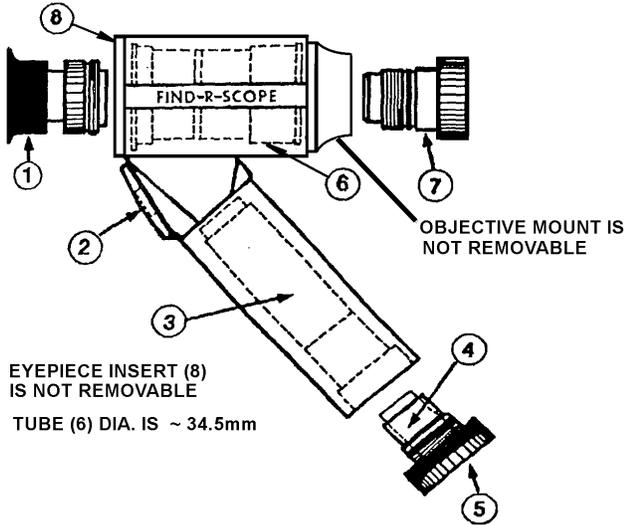
SPECIFICATIONS

Field of View:	40°
Magnification	1:1
Standard Sensitivity	300 to 1350 nm
Optional sensitivities	to 1550 nm (also to 180 nm)
Peak Sensitivity:	800 nm (also 350 nm)
Focal Range	4"/100 mm to infinity
Resolution	70 lines/mm min.
Battery life	>250 hrs (intermittent) 100 hrs (continuous)
Power Supply Life:	2500 hours.
Dimensions:	6"x2-1/8"x7" 152X54X178 mm 22 oz/625g
Operating Temp:	-25°F to 115°F -32°C to 46°C



THE DIFFERENCES BETWEEN THE **84499A** AND THE **84499** FIND-R-SCOPE's

THIS IS 84499A



EYEPIECE INSERT (8)
IS NOT REMOVABLE
TUBE (6) DIA. IS ~ 34.5mm

OBJECTIVE MOUNT IS
NOT REMOVABLE

THE **84499A** FIND-R-SCOPE

- I. The objective mount is not removable from the instrument housing.
- II. The eyepiece insert is gray in color and is not removable from the instrument.
- III. The image converter tube (6) diameter at the front is approx. 34.5 mm, or 1.36" P/N 61896.
- IV. Other objectives can not be readily mounted on this unit.

PART NAMES COMMON TO BOTH

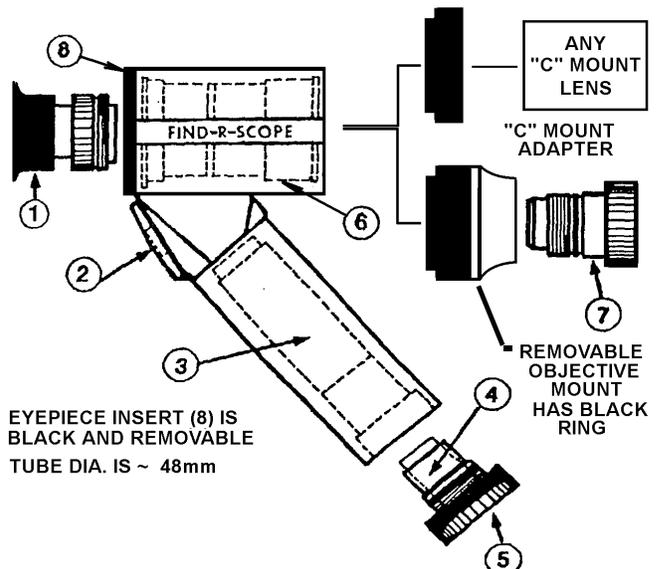
1. Eyepiece with rubber shield
2. Master ON/OFF power switch
3. High voltage power supply
4. "C" cell battery
5. Battery end cap assembly
6. Image converter tube
7. Objective lens assembly
8. Eyepiece insert.

THE **84499** FIND-R-SCOPE

- I. The objective mount is removable from the instrument housing, and a portion of it is black.
- II. The eyepiece insert (8) is black in color, is attached with screws and is removable from the instrument housing.
- III. The image converter tube (6) diameter at the front is approx. 48 mm, or 1.89" P/N 82359.
- IV. Any "C-mount" objectives can be used with this viewer via the optional "C-mount" adapter, including zoom lenses.

The "C-mount" adapter P/N 85299 is **not** part of the 84499 package.

THIS IS 84499



EYEPIECE INSERT (8) IS
BLACK AND REMOVABLE
TUBE DIA. IS ~ 48mm

REMOVABLE
OBJECTIVE
MOUNT
HAS BLACK
RING

ANY
"C" MOUNT
LENS

"C" MOUNT
ADAPTER