

# Orion® EZ Finder™ II Reflex Sight

#7228

The EZ Finder II Reflex sight makes pointing your telescope almost as easy as pointing your finger! It's a non-magnifying aiming device that superimposes a tiny red dot on the sky, showing exactly where the telescope is pointed. You keep both eyes open when looking through the EZ Finder II, which makes it easy to compare the view through the sight with the wider naked-eye view. EZ Finder II has a wide 10° field of view, with a variety of options for attachment to your telescope, as well as adjustable brightness control.

## Parts List

- 1 EZ Finder II
- 1 Dovetail mounting bracket
- 1 Universal mounting base
- 1 Double sided foam tape
- 2 Flathead screws
- 2 Lock washers
- 2 Hex nuts

## Installation

First, open the box and make certain that all the parts are present.

### To install the EZ Finder II on most Orion telescopes

For most Orion telescopes, the dovetail mounting bracket will work best. The EZ Finder II will slip neatly into the dovetail base that held the telescope's original finder scope. To attach the dovetail mounting bracket to the EZ Finder II, loosen the two thumbscrews on the bottom rail of the EZ Finder II. Slide the EZ Finder II onto the bracket and tighten the two thumbscrews (See Figure 1). Then simply slide the dovetail mounting bracket into the telescope's dovetail mounting base and tighten the thumbscrew on the base to secure the mounting bracket.

### To install the EZ Finder II on other brands of telescopes

Use these instructions to mount the EZ Finder II on other brands of telescopes, custom telescopes, or when you wish to mount the EZ Finder II *in addition* to your regular finder scope on an Orion telescope.

To attach the EZ Finder II, you will need to attach the included universal mounting base to the telescope. You can attach this by using the double-sided foam tape (recommended for refractors) or with the two included screws. In order to attach the universal mounting base with the screws, you will need to drill holes in the telescope tube.

To drill the holes in the tube, use the drill template (Figure 2). Lay the template on the telescope tube so that the long axis is parallel with the long axis of the optical tube. Poke a pencil point through the center of each hole, marking its position on the

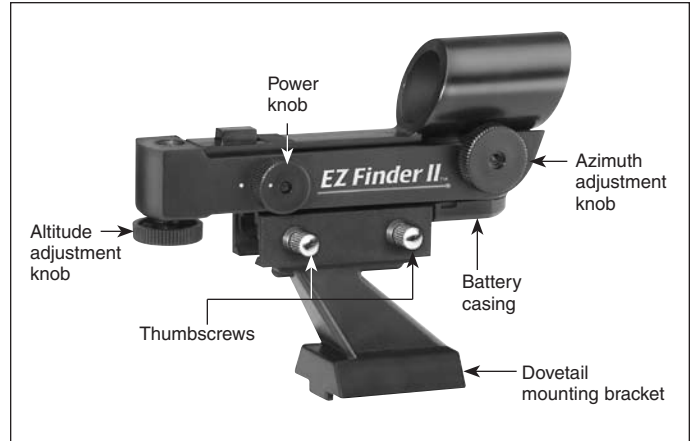


Figure 1.

tube. Remove the template. Use a #25 (.148") or similar drill bit and drill two holes where the pencil marks are.

Attach the universal mounting base to the tube with the two screws and secure by threading a lock washer and hex nut onto the threaded end of the screw. The threaded ends of the screws should be on the inside of the telescope tube.

Instead of screws, the double-sided foam tape can be used to attach the universal mounting base to the telescope tube. The tape is already cut to the correct size. Peel off the backing on one side, line up the tape to the bottom of the universal mounting base, and press firmly. Then remove the backing from the other side of the tape and adhere the base to the tube.

To attach the EZ Finder II to the universal mounting base, loosen the two thumbscrews on the bottom rail of the EZ Finder II. Slide the EZ Finder II onto the bracket and tighten the two thumbscrews.

Alternatively, if you wish to attach the EZ Finder II to your telescope using the included dovetail mounting bracket (getting the advantage of its higher profile), we offer an optional dovetail mounting base (#7214, sold separately) designed to work with the EZ Finder II's mounting bracket. You will likely need to drill holes in your telescope tube in order to attach the optional base.

For mounting the EZ Finder II on Schmidt-Cassegrain telescopes, we offer a special bracket (#2330, sold separately) that

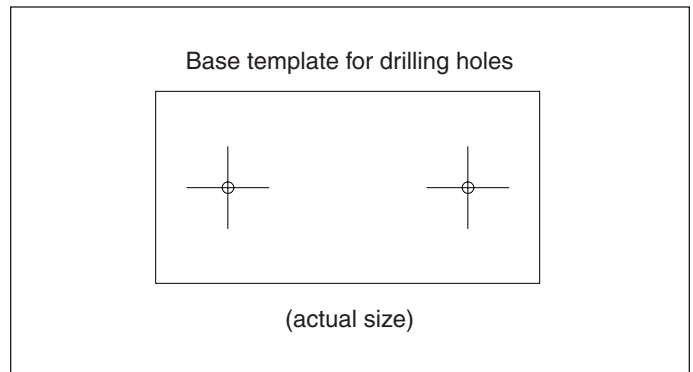


Figure 2.

fits the existing accessory mounting holes on the telescope. Alternatively, the included foam tape can be used.

## Operation

The EZ Finder II works by projecting a tiny red dot (it's not a laser beam) onto a lens mounted in the front of the unit. When you look through the EZ Finder II, the red dot will appear to float in space, helping you locate even the faintest of deep space objects. The red dot is produced by a light-emitting diode (LED) near the rear of the sight. A 3-volt lithium battery provides the power for the diode.

Turn the power knob (see Figure 1) clockwise until you hear the "click" indicating that power has been turned on. Look through the back of the reflex sight with both eyes open to see the red dot. Position your eye at a comfortable distance from the back of the sight. In daylight you may need to cover the front of the sight with your hand to be able to see the dot, which is purposefully quite dim. The intensity of the dot is adjusted by turning the power knob. For best results when stargazing, use the dimmest possible setting that allows you to see the dot without difficulty. Typically a dimmer setting is used under dark skies and a bright setting is used under light-polluted skies or daylight.

At the end of your observing session, be sure to turn the power knob counterclockwise until it clicks off. When the white dots on the EZ Finder II's body and power knob are lined up, the EZ Finder II is turned off.

## Aligning the EZ Finder II

When the EZ Finder II is properly aligned with the telescope, an object that is centered on the EZ Finder II's red dot should also appear in the center of the field of view of the telescope's eyepiece. Alignment of the EZ Finder II is easiest during daylight, before observing at night. Aim the telescope at a distant object such as a telephone pole or roof chimney and center it in the telescope's eyepiece. The object should be at least 1/4 mile

away. Now, with the EZ Finder II turned on, look through the EZ Finder II. The object should appear in the field of view.

Without moving the main telescope, use the EZ Finder II's azimuth (left/right) and altitude (up/down) adjustment knobs (see Figure 1) to position the red dot on the object in the eyepiece.

When the red dot is centered on the distant object, check to make sure that the object is still centered in the telescope's field of view. If not, recenter it and adjust the EZ Finder II's alignment again. When the object is centered in the eyepiece and on the EZ Finder's red dot, the EZ Finder II is properly aligned with the telescope.

Once aligned, EZ Finder II will usually hold its alignment even after being removed and remounted. Otherwise, only minimal realignment will be needed.

## Replacing the Battery

Should the battery ever die, replacement 3-volt lithium batteries are available from many retail outlets. Remove the old battery by inserting a small flat-head screwdriver into the slot on the battery casing (Figure 1) and gently prying open the case. Then carefully pull back on the retaining clip and remove the old battery. Do not overbend the retaining clip. Then slide the new battery under the battery lead with the positive (+) end facing down and replace the battery casing.

## Specifications

Weight:	2.8 oz. (with dovetail mounting bracket)
Length:	4-3/4"
Magnification:	1x
Field of View:	10°
Light Source:	light-emitting diode (LED)
Power:	3-volt lithium battery

## One-Year Limited Warranty

This Orion EZ Finder II is warranted against defects in materials or workmanship for a period of one year from the date of purchase. This warranty is for the benefit of the original retail purchaser only. During this warranty period Orion Telescopes & Binoculars will repair or replace, at Orion's option, any warranted instrument that proves to be defective, provided it is returned postage paid to: Orion Warranty Repair, 89 Hangar Way, Watsonville, CA 95076. If the product is not registered, proof of purchase (such as a copy of the original invoice) is required.

This warranty does not apply if, in Orion's judgment, the instrument has been abused, mishandled, or modified, nor does it apply to normal wear and tear. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. For further warranty service information, contact: Customer Service Department, Orion Telescopes & Binoculars, 89 Hangar Way, Watsonville, CA 95076; (800) 676-1343.