



Leatherwood® / Hi-Lux™ Optics



RED DOT SIGHT INSTRUCTIONS

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CONGRATULATIONS! You have just purchased one of our Red Dot Electronic Sight Series. It is one of the best scopes built today. There are hunting and shooting situations when open sights or a scope may not be the best choice. For those special purpose applications, the Leatherwood® / Hi-Lux™ Optics Red-Dot Series electronic sights could be the answer to your shooting or hunting needs. Handgunners are discovering how much easier it is to simply place the illuminated dot of these sights on their target rather than attempting to align the front sight in the rear sight notch and holding the sight picture as the trigger is squeezed.

Turkey hunters appreciate being able to track the approach of an old gobbler without worrying about whether or not the front bead of the shotgun is high or low. And muzzleloading hunters in those states where telescopic sights are not allowed during the special muzzleloader seasons are now turning to non-magnifying Red-Dot sights for a more positive aiming point. Leatherwood® / Hi-Lux™ Optics Red-Dot series sights are extremely compact and lightweight. The brightness of the dot can be easily adjusted for easier sighting in either bright or low-light conditions. Both the ES1X25 and the ES1X30 come with rings; while, the ES1X30TP and the ES1X50TP come with integral mounts, ribbed rubber edge guards and flip-up lens covers. With your Leatherwood®/Hi-Lux™ RED DOT SIGHTS, you get Quality, Precision and Ruggedness at a price that doesn't break your budget. The RED DOT SIGHTS Series are built to meet the wants and needs of American shooters.

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SECTION 1: SPECIFICATIONS AND BASIC DEFINITIONS

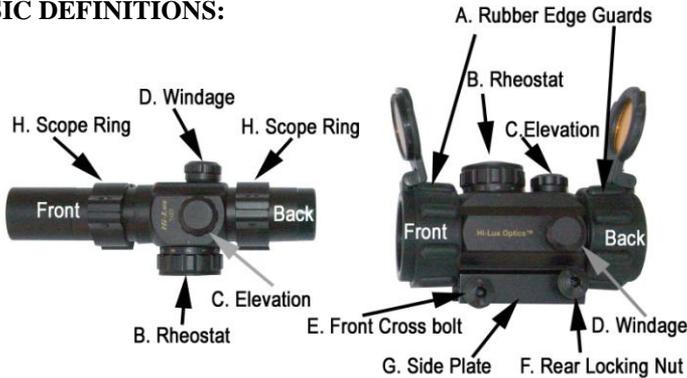
(1) SPECIFICATIONS:

Model	Power	Obj. (mm)	F.O.V.@ 100 Yds (Feet)	Eye Relief (Inch)	Length (Inch)	Weight (O.Z.)	Exit Pupil Range In Variable mm	E/W Adju. MOA
ES1X25	1X	25	40	Unlimited	4.49	3.6	N/A	1
ES1X30	1X	30	52	Unlimited	4.49	4.3	N/A	1
ES1X30TP	1X	30	68	Unlimited	4.49	6.4	N/A	1
ES1X50TP	1X	50	88	Unlimited	4.49	8.5	N/A	1

Remarks:

All lenses are fully multi-coated using special technology to maximize light transmission. The click adjustments for both Elevation and Windage are 1 MOA per click. Objective lens is angled for optimized red dot light refraction. For Model ES1X30TP and ES1X50TP the screws on mount are uneven to provide greater holding strength.

(2) BASIC DEFINITIONS:



A. Rubber Edge Guards; **B.** Scope Rheostat; **C.** Elevation Knob; **D.** Windage Knob; **E.** Front Cross Bolt; **F.** Rear Locking Nut; **G.** Side Plate; **H.** Scope Ring;

SECTION 2: MOUNTING YOUR RED DOT SIGHT

(1) Units With Rings Included (ES1X25 and ES1X30):

If during the installation of the red dot sight onto a rifle or shotgun the rings are too far apart to fit the basic sight, screw the included extension tube onto the exposed thread at the front of the sight.

As there is no set eye relief for the red dot sights, allow a minimum of three inches of the space between the back of the sight and the shooter's eye when in the shooting position.

Separate the rings and place the scope in the rings. Install the included rings onto the base or bases by aligning and seating the cross-bolt of the ring into the crosscut grooves of the base. Rotate the sight in the rings so that the elevation turret adjustment is on top. Then tighten the two screws with the included Allen wrench.

(2) Units With the Integrate Mounts (ES1X30TP and ES1X50TP):

Set the rail onto the base or bases. Align and seat the front cross-bolt of the mount into the crosscut groove of the base. Tighten each cross-bolt locking-nut with a screwdriver or coin. For additional security, you can apply some threaded-locking compound such as the blue Loctite to the center of each lock-nut. As there is no set eye relief for the red dot sights, allow a minimum of three inches of the space between the back of the sight and the shooter's eye when in the shooting position.

WARNING: NEVER LOOK AT THE SUN WITH THIS PRODUCT, OR EVEN THE NAKED EYE. YOU COULD PERMANENTLY DAMAGE YOUR EYES.

SECTION 3: INSTALLING BATTERIES

Red dot electronic sights are powered by 3V "coin style" CR2032 lithium batteries. Unscrew the battery compartment and insert the batteries positive ("+") side up. Retighten the battery cover. If the red dot dims or does not light at all, replace the battery.

SECTION 4: ZEROING

Activate the illuminated dot by turning the rheostat knob clockwise from "1" to "11" to brighten and counterclockwise to dim. The "0" position is to indicate the Unit off.

Remove the windage and elevation adjustment screw caps.

With the scope mounted, rest the gun on a solid support. Sight along the barrel and aim at a target 50 to 100 yards away. Sight through your red dot sight and use the windage and elevation adjustments to align the lighted dot with the target as seen along the barrel.

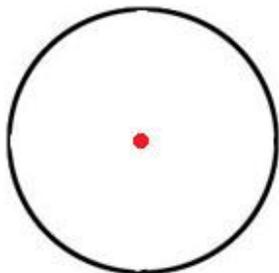
Each click of the adjustment changes bullet impact at 100 yards by 1 MOA as the amount indicated on the windage and elevation adjustments. The adjustments are calibrated in Minutes of Angle (MOA). One minute of angle is very close to 1 inch at 100 yards. To calculate the click value at distances other than 100 yards, use the following formula: divide the distance (number of yards) by 100. Then multiply this number by the click value stated on the windage and elevation adjustments. This will

tell you the actual click value of the scope at that distance. For Example: your range is 200 yards. Divide 200 by 100 and that equals 2. Multiply the 1-minute indicated on the adjustments by 2 and the adjustment at 200 yards is 2 inches per click.

WARNING: ALL SHOOTING SHOULD BE DONE AT AN APPROVED RANGE, OR SAFE AREA. EYE AND EAR PROTECTION IS RECOMMENDED.

SECTION 5: RETICLE IN USE

Red Dot Reticle:



There is a red dot in the center of the reticle. Its dot size may change from 3 MOA to 5 MOA by changing the brightness. Sometimes the red dot shape is not perfectly round. The Red Dot Electronic Sights do not have any magnification, so there is no set eye relief for any of the Red Dot Electronic Sights. You can mount the sights at any distance you feel comfortable, to shoot in front of your eye. The red dot size is not controllable.

SECTION 6: MAINTAINING YOUR RIFLESCOPE

Your scope, though amazingly tough, is a precision instrument that deserves reasonable and cautious care. For normal maintenance:

- A. Do not attempt to disassemble or clean the scope internally.
- B. The external optical surfaces should occasionally be wiped clear with the lens cloth provided or an optical quality lens paper.
- C. Keep the protective lens covers in place when the scope is not in use.
- D. Remove any external dirt or sand with a soft brush so as to avoid scratching the finish.
- E. Wipe the scope with a damp cloth, followed by a dry cloth.
- F. Then go over the metal portions of the scope with a silicon treaded cloth in order to protect the scope against corrosion.
- G. Store the scope in a moisture-free environment.
- H. Avoid storing the scope in the hot place, such as the passenger compartments of a vehicle on hot days. The high temperatures could adversely affect the lubricants and sealants. A vehicle's trunk, a gun cabinet or a closet are the preferred storage locations.

- I. Never leave the scope where direct sunlight can enter either the objective or the eyepiece lens. Damage may result from the concentration of the sun's rays (burning glass effect).

WARNING: UNNECESSARY RUBBING OR USE OF A COARSE CLOTH MAY CAUSE PERMANENT DAMAGE TO LENS COATINGS.

SECTION 7: LIMITED LIFETIME WARRANTY

Hi-Lux, Inc. warrants its products against defects arising from faulty workmanship, or materials, for the lifetime of the **original purchaser**. Any attempt to alter, dismantle or change the standard specifications of the products, will make this warranty null and void. This warranty is made to the **original purchaser** of the goods including all international sales, and applies only to the products purchased through our authorized distributors or dealers. The international warranty is subject to approval from our authorized distributor or us directly. Warranty obligation is limited to the repair or replacement of any product returned to **Hi-Lux, Inc.**, which is determined by the manufacturer to have defects arising from faulty workmanship, or materials that adversely affect the satisfactory operation of the product. It should be noted that on items containing an etched glass reticle that the occasional appearance of some small particles is common and not a warrantable repair. We only have a one-year warranty for the electronic components that are contained on the products. **Hi-Lux, Inc.** reserves the right to request proof of purchase and purchase date. To guarantee warranty service, the enclosed warranty form must be completed and returned within ten (10) days of purchase to establish all warranty rights between you, the original purchaser, and **Hi-Lux, Inc.** We assume no liability for any incidental or consequential damages, or incidental expenses. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you. No warranties are made, or are authorized to be made, other than those expressly contained herein. To file a claim under this warranty, please contact the Customer Service Department of **Hi-Lux, Inc.** at (310) 257-8142 to obtain a Return Authorization number (RA number). After receiving your RA number, please mark the number on the outside of the package; enclose the defective item with a brief explanation of the problem. Please be sure to include your name, address and phone number. Failure to obtain a RA number may result in either refusal upon delivery, or lengthy delays for warranty repairs and service required for the item returned to us. All returns are to be shipped prepaid direct to **Hi-Lux, Inc.** including a check or money order in the amount of \$15 to cover postage and handling.

Attn.: Warranty & Service Dept.

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In the event of a non-warranty repair, you will receive an estimate prior to any work being done. This warranty gives you specific legal rights and you may have other rights, which vary from state to state. As defined by federal law, this is a limited warranty.



We lead the way™