



Leatherwood® / Hi-Lux™ Optics



MAX-TAC DOT ELECTRONIC SIGHT MTD-30 INSTRUCTIONS

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CONGRATULATIONS! You have just purchased one of our Max-Tac Dot (Model No.: MTD-30) electronic red-dot sights. This is one of the toughest electronic sights built today, featuring a rugged machined aluminum housing. The MTD-30 features a solid Picatinny mount machined right into the housing, and can be quickly and easily attached to any Weaver-style one-piece base or Picatinny rail. Two robust attachment nuts insure that this sight stays solidly mounted until the shooter is ready to remove it.

This is a zero-magnification (1x) electronic reflex type sight, which is parallax free - allowing the shooter to quickly get on target and quickly take the shot. The 30mm lenses are fully multi-coated to insure the clearest and brightest sight picture possible with a sight of this design. Covered windage and elevation turrets offer precise click adjustments.

The MTD-30 offers dual-mode (auto or manual) digital illumination control. In the auto-mode, the sight relies on a built-in light sensor to automatically adjust to the intensity of the ambient light. In the manual-mode, the shooter can adjust the brightness of the illuminated red dot to meet his or her needs. The MTD-30 is built with an auto shut off switch. If the control buttons are left untouched, the sight automatically shuts off after one hour - saving battery life.

This is a full-featured red-dot sight, and comes with a screw-in honeycombed anti-reflective filter, screw-in aluminum lens covers, a neoprene cover for use during inclement weather, and a non-marring polymer key for adjusting the windage and elevation turrets, or removing the easy to access cover for the 3V CR2032 lithium battery compartment. This sight is ideal for use on tactical rifles, hunting rifles, slug-shooting shotguns, handguns and muzzleloading big game rifles. The Max-Tac Dot sight is shock proof, fog proof and water proof - and comes with a limited lifetime warranty.

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SECTION 1: SPECIFICATIONS, BASIC DEFINITIONS, AND ACCESSORIES

(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
MTD-30	1X	30	70	Unlimited	3.9	8.9	N/A	N/A

Remarks:

The adjustments for both Elevation and Windage are 48 MOA per revolution. The total adjustments for both Elevation and Windage are 70 MOA - with 35 MOA on each side from the center. A special illumination circuit is designed to control the illuminated dot size in a consistent shape and size. The dot size is 4 MOA. However the dot size may change slightly, depending on the brightness of the dot. Used in the auto-mode, the Max-Tac Dot light sensor will control the brightness of the dot automatically, based on the surrounding light situation. The red dot brightness can also be controlled manually (in the manual-mode) by pressing the “+” or “-” button to adjust for the appropriate dot brightness.

(2) BASIC DEFINITIONS:



A. Rear Lens; **B.** Windage and Elevation; **C.** Light Sensor; **D.** Lens Cover; **E.** Anti-Reflective Filter; **F.** Battery Compartment Cover; **G.** + and - Digital Buttons;

(3) ACCESSORIES:

The MTD-30 comes with the following accessories:

- (1) One screw-in honeycombed anti-reflective filter.
- (2) Two screw-in aluminum lens covers. The front and rear lens covers are the same kind. The lens cover can also be screwed in the anti-reflective filter.
- (3) One neoprene scope cover for use during inclement weather.
- (4) A non-marring polymer key for adjusting the windage and elevation turrets, or removing-the easy to access cover for the 3V CR2032 lithium battery compartment.



SECTION 2: INSTALLING BATTERY



When your Max-Tac Dot red dot becomes dim or does not light at all, you need to replace the battery. The Max-Tac Dot electronic sight is powered by a 3V “coin style” CR2032 lithium battery. When the voltage of the battery gets less than 2 V, the LED indicator will start to flash every second for 30 seconds to remind you to replace the battery. Unscrew the battery cover, and insert the battery positive (“+”) side up and retighten the battery cover. Once you have installed the new battery, the red dot will go on automatically. Please keep the Max-Tac Dot sight off while you are not using the sight to save the battery life. The sight will also shut off automatically if you don’t touch any + / - button for over one hour.

SECTION 3: MOUNTING YOUR SIGHT

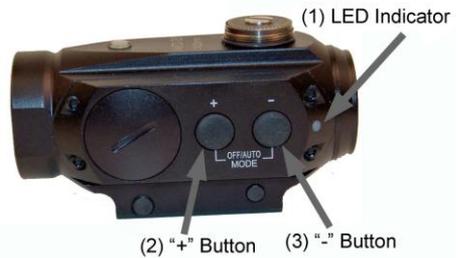
As there is no set eye relief for the Max-Tac Dot sight, you can install the sight at any position of the gun you feel comfortable. Set the rail onto the base. Align and

seat the cross-bolt of the mount into the crosscut groove of the base. Tighten the two hex head locking nuts. You may apply max. 40 inch-pound torque on the nuts. Please do not over tighten the locking nuts to avoid damaging the lock screw and nut. For AR type rifles, you may need a riser block to raise the MTD-30 sight 1/2" higher.

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

SECTION 4: DIGITAL SWITCH INSTRUCTIONS

The MTD-30 offers dual-mode (auto or manual) digital illumination control. In the auto-mode, the sight relies on a built-in light sensor to automatically adjust to the intensity of the ambient light. In the manual-mode, the shooter can adjust the brightness of the illuminated red dot to meet his or her needs by pressing the “+” or “-” button. The MTD-30 is built with an auto shut off switch. If the control buttons are left untouched, the sight automatically shuts off after one hour - saving battery life.



The digital illumination control instructions are as following:

(1) Manual mode:

When you cover or remove your hand from the built-in light sensor, and do not see any intensity or brightness change of the red dot, the sight is in the manual-mode. Now you can use the “+” or “-” to increase or decrease the dot brightness to fit your needs. Only in the manual-mode can the “+” or “-” button change the intensity/brightness of the of the red dot.

(2) Auto Mode:

When you cover the light sensor with your hand, you will notice the red dot is getting dimmer. When you remove your hand from the light sensor, you will notice the red dot gets brighter. This indicates the sight is in the auto-mode. While in the auto-mode, the “+” or “-” button will not change the brightness of the red dot.

(3) Switch the Mode:

You can switch the mode from AUTO to MANUAL mode by pressing the “+” and “-” down simultaneously for 1 second. The LED indicator will flash one time. Then the mode has been switched from one to the other.

(4) Power Off the MTD-30 sight

If you want to shut off the MTD-30 tactical sight, you can hold the “+” and “-” down simultaneously for 4 seconds. The LED indicator will flash 3 times. Then, release the buttons. The MTD-30 sight is turned off. If you touch either the “+” or “-” button, the sight is on again. If the control buttons are left untouched, the sight automatically shuts off after one hour - saving battery life.

(5) Low Battery Indicator

If the battery voltage is getting lower than 2V, the MTD-30 sight will not function properly and the dot will be dimmer. The LED indicator will start to flash every second for 30 seconds to remind you to replace the battery. If you forgot to replace the battery, every time you turn on the sight, the LED indicator will flash again every second for 30 seconds to remind you to replace the battery. Once you install a new battery, the LED indicator will stop flashing. The MTD-30 sight will now function properly.

SECTION 5: ZEROING THE SIGHT

Once you touch any control button, the Max-Tac Dot sight will be on. You will see the dot in the center of the sight. Then you need to follow the instructions stated in section 4 to adjust the brightness of the dot to suit your eye. The adjustments for both Elevation and Windage are 48 MOA per revolution. The total adjustments for both Elevation and Windage are 70 MOA - with 35 MOA on each side from the center. A special illumination circuit is designed to control the illuminated dot size in a consistent shape and size. The dot size is 4 MOA. However the dot size may change a little, depending on the brightness of the dot. When you finish using the Max-Tac Dot sight, make sure to turn off the sight to save the battery. The sight will also shut off in one hour if you don't touch any of the buttons.

With the sight mounted, rest the gun on a solid support. Sight along the barrel and aim at a target 25 to 50 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. You should fire a test shot to determine the point of impact of your gun. If you did not hit the center of the target, then you can

make the adjustments of either elevation or windage in the direction you want to move the point of impact. Both **Elevation and Windage** adjustments have 1 MOA per click and 48 MOA per revolution. Adjust the **Elevation** turret clockwise to move

Elevation Turret



Windage Turret

the point of impact **UP**. Adjust the **Windage** turret clockwise to move the point of impact to the **RIGHT**. Turning either turret counter-clockwise moves shot impact in the opposite direction.

Elevation and Windage Adjustment Chart:

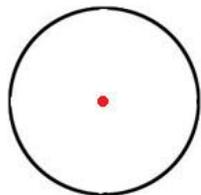
The following chart will help you understand how to calculate the correct amount of adjustments. Each MOA adjustment will have a different inch drop at different ranges. One minute of angle is very close to 1 inch at 100 yards. At 50 yards one MOA is close to half an inch. At 25 yards, one MOA is close to 0.25 inch.

Range	1 Hash Mark of the Elevation	1 Hash Mark of the Windage
25 yards	0.25 Inch	0.25 Inch
50 yards	0.5 Inch	0.5 Inch
100 yards	1 Inch	1.0 Inch

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

SECTION 6: RETICLE IN USE

Max-Tac Dot Reticle:



There is a red dot in the center of the reticle. The dot size is about 4 MOA. The Max-Tac Dot Sight does not have any magnification, so there is no set eye relief for this sight. You can mount the sight on the rifle at any distance from your eye that is comfortable for you to shoot. The red dot size is not controllable.

SECTION 7: MAINTAINING YOUR SIGHT

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

- Do not attempt to disassemble or clean the sight internally.
- The external optical surfaces should occasionally be wiped clear with the lens cloth provided or an optical quality lens paper.
- Keep the protective lens cover in place when the sight is not in use.
- Remove any external dirt or sand with a soft brush so as to avoid scratching the finish.
- Wipe the sight with a damp cloth, followed by a dry cloth.

- F. Then go over the metal portions of the sight with a silicon treated cloth in order to protect the sight against corrosion.
- G. Store the sight in a moisture-free environment.
- H. Avoid storing the sight in a 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 is the preferred storage locations.
- I. Never leave the sight 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 8: LIMITED LIFETIME WARRANTY

Hi-Lux, Inc. warrants its products against defects arising from faulty workmanship, or materials, for the lifetime of the **original purchaser**. **The normal wear and tear are not covered by this limited lifetime warranty.** 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 \$19 to cover postage and handling regardless of purchase date.

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.



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