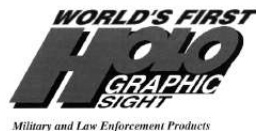




Your PDF Guides

You can read the recommendations in the user guide, the technical guide and the installation guide for EOTECH HWS 512. You'll find the answers to all your questions on the EOTECH HWS 512 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual EOTECH HWS 512 User guide EOTECH HWS 512 Operating instructions EOTECH HWS 512 Instructions for use EOTECH HWS 512 Instruction manual EOTECH HWS 512



Military and Law Enforcement Products

INTRODUCTION

Congratulations on your choice of a EOTECH Graphic Sight (HWS), a revolutionary sighting system based on advanced holographic technology. The HWS enhances target acquisition, improves accuracy, and provides more contrast over your shooting environment.

The HWS aims the reticle of all shooting from the view to the most advanced precision. Our objective is to give each and every customer the quality, consistency, and service expected from the leading industry leader. Whether your shooting discipline, we wish you the best shooting, and again, we thank you for choosing the HWS.

This user manual describes the features of the HWS models 502, 511, 512, 551 and 552. Please read the instructions carefully before mounting and using the sight and always practice proper firearm safety.

HWS will include:

- Sight assembly
- 2 AA Type N or AA alkaline batteries
- 294" allen wrench
- Removable Weapon Rail (Not included on Model 502)

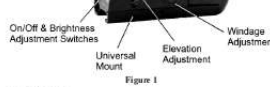


Figure 1

FAST ORIENTATION
The HWS uses a fast sight to maintain a field-of-view reticle pattern centered in the head-up display window and forms a virtual image of a reticle pattern. The device uses the high-contrast graphic window and uses a bright red color of a reticle pattern projected onto the target plane. This is absolutely no light source within the target plane. The HWS has no magnification.

REVC. 1

REVC. 2

REVC. 3

REVC. 4

REVC. 5

REVC. 6

REVC. 7

REVC. 8

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REVC. 35

HOBB

Models 511, 512, 551, 552 and 554 are equipped with a protective hood. This hood is pre-assembled at the factory and is non-removable. Should your hood become unattached or loose contact with the hood, it is a Department of Justice violation. **CAUTION: Tampering of Hood Lock screws will void warranty.**

BATTERIES

The HWS is normally available in Type N or AA alkaline 1.5 V batteries power or your HWS depending on the model. An initial set of batteries comes with your sight. The HWS is designed to maintain constant brightness or a particular setting as the batteries drain down. The reticle brightness will not fade gradually as the batteries drain down but rather and down abruptly. The first indication of the batteries draining is the reticle blinking when the unit is turned on (see Electronic Features 1). Absence of low battery in the reticle pattern blinking will indicate low battery condition. This can occur before the battery check indicates low battery condition. If the reticle pattern blinks or if the battery check or status off suddenly, replace the batteries. Please read and follow the battery replacement and battery check procedures as stated in the Manual.

Alkaline batteries from different manufacturers are not all constructed the same way. Only those some brands are most susceptible to degradation by the drain of current. We recommend the use of Energizer Energizer® batteries with the HWS. It is always a good practice to replace the batteries with fresh and better assurance.

CAUTION: There is a 12V battery that is approximately the same size as the Type N 1.5V battery. DO NOT USE 12V battery. They will severely damage the sight.

The 12V common AA size battery power your Model 554, 552 or 512 HWS. An initial set of AA size alkaline batteries comes with your sight. EOTECH recommends Energizer Alkaline or Lithium AA batteries. Lithium AA batteries offer longer life, particularly at temperatures below freezing. For this reason, Lithium AA batteries are recommended for cold weather operations. However, we should note that the battery checking function which is based on the characteristics of Alkaline batteries does not operate properly with Lithium batteries.

REPLACING BATTERIES
Remove the battery compartment by lifting up on the locking cam lever and carefully sliding the battery compartment away up from the sight housing (Figure 2). After the battery compartment is removed, slide the batteries out and replace them with a fresh set. Always make sure the positive (+) and negative (-) terminals are properly inserted in the battery compartment. Do not touch the battery compartment pins. Make sure the compartment is properly closed and the battery compartment is sealed properly. Hold the battery compartment down firmly against the base and close the locking cam. **Before you push down on the cam, make sure the battery compartment is fully seated and the cam is locked.**

Verify correct battery installation immediately by turning on the sight and checking if the holographic reticle appears. If the batteries are off in the sight lock down, they will be damaged if this occurs.

FCC COMPLIANCE
The HWS complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

MAINTENANCE AND CARE
Your HWS is a precision instrument that deserves assembly care. The following tips are provided to ensure long lasting use of the sight.

1. When cleaning the glass surfaces, first blow on any dirt and dust. Fingerprints and lubricants can be wiped off with lens tissue or a soft cotton cloth, moistened with isopropyl alcohol or glass cleaner sold at any camera store.

Never clean the glass surface with any cloth or paper towel; always dampen the glass surface prior to cleaning.

2. All moving parts of the sight are permanently lubricated. Do not try to lubricate the sight.

3. No maintenance is needed on the sight's surface, except to occasionally wipe off with soft cloth. Use only a water-based cleaner such as glass cleaner, ammonia, or soap and water. Never use any solvent-type cleaner such as alcohol or acetone.

4. Never disassemble the sight's assembly. The optical cavity is rugged, stamped metal, and sealed against fog proof performance. **Disassembly will void the warranty.**

REPAIR
If you HWS should need repair, please send the unit postage prepaid to address below including your name, address and telephone number as well as a return shipping tag of the previous use you are requesting. Also include your receipt of the time of purchase. Whenever possible, ship the sight in its original box.

Sent to:
EOTECH
ATTN: Service Department
3600 Green Court Suite 400
Jenkintown, MD 21204 USA

You can contact EOTECH's Customer Service Department at 734-741-8998 or visit our web page: www.eotech.com

Email: general@eotech.com

WARRANTY STATEMENT
All HWS optical sights are certified with pride in the USA. More importantly, they are manufactured in our customer's confidence in mind. EOTECH warrants every product to be free from defects in materials and workmanship for a period of two years from the original date of purchase.

EOTECH will promptly repair or replace its optical product that is defective in material or workmanship, without charge. All work associated with the product shipment for product repair will be insured by the carrier. This warranty does not cover defects caused by improper handling, unauthorized disassembly, modification, or maintenance, abnormal use, or improper alterations. EOTECH shall not, in any event, be liable for any damages, including any lost profits, lost wages, or other incidental or consequential damages arising out of the use or inability to use such products. This warranty gives the customer certain legal rights and possibly other rights that may vary from state to state.

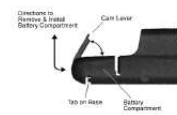


Figure 2

ELECTRONIC FEATURES

All electronic controls are via push buttons located at the rear of the sight housing as shown in Figure 3. To ensure proper operation of the push buttons, we recommend positioning firmly on the center of the switch.

1. **ON/Off Auxiliary View**
Depressing the UP or Down Arrow push buttons within will turn the light ON at Level 12. Press the Mode/5 button, the light will turn out Level 12 when the UP button is depressed and it will turn out Level 1 when the DOWN button is depressed. The unit will turn on the next level of Auxiliary View. The light will automatically perform a battery check, even if it is turned on. If the battery has less than 25% of its life, the light will turn on with the reticle image blinking on and off for 5 seconds. If the remaining battery life is more than 25%, the light will turn on with a steady reticle pattern. The battery condition can be checked any time by turning the sight off and back on.

2. **OFF**
To turn the sight off, depress both UP and DOWN arrows simultaneously. Verify by looking through head-up display window.

3. **Reticle Adjustment**
Push buttons on the eye cup the brightness intensity of the holographic reticle pattern. Depressing and raising the push buttons will change the brightness level UP or DOWN one (1) step from the previous setting. Depressing and holding the up arrow or down arrow will change brightness level up or down a continuous range. There are twenty (20) brightness settings providing a dynamic range of 14:1000:1 from the lowest setting to the highest setting.

4. **Auto Shutdown**
The HWS is equipped with a battery shutdown capability. If the sight is turned on by depressing the UP button, it will automatically shut itself OFF when after the last push-button control is used. The sight will automatically shut OFF after a brown (1) is turned on by depressing the DOWN button. The Model 554 will automatically shut OFF after 8 hours whether the sight is turned ON by depressing the UP or the DOWN button.

NIGHT VISION
The Model 551 and 552 are compatible with Generation II, III, IIIa and IV Night Vision Devices. At the night vision settings, the reticle brightness is low enough that when viewed with a night vision device, the reticle image does not bloom.

NIGHT VISION MODE (ON/OFF AUTO SHUTDOWN)

1. **ON/Off Night Vision Mode and Off Auto Shutdown**
Depressing the NV button (see Fig. 2) will turn the light ON in Night Vision Mode. The light will turn out Level 12 automatically. Shut OFF Mode after the up push button control is used. There are 10 brightness settings in NIGHT VISION MODE with a dynamic range of 128:1.

2. **OFF, Down Arrow**
To turn the sight off, depress both the UP and DOWN arrows simultaneously. Verify by looking through the head-up display window with night vision device.

3. **TOGGLE Between Auxiliary and Night Vision Mode**
To toggle between NIGHT VISION MODE and NIGHT VISION MODE, press the NV button. When switching between modes, the sight will remember the last brightness setting.

NOTE: When using with a Night Vision device, always check to make sure the sight is not turned on before pressing the NV button or turn on the light in the Night Vision mode. Otherwise, it will toggle into Normal Mode and saturate the image immediately.

Figure 4

To ensure proper operation of the push buttons, we recommend positioning firmly on the center of the switch.

Figure 3

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Figure 4

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Manual abstract:

The HWS fills the needs of all shooters from the novice to the most advanced professional. Our objective is to give each and every customer the quality, commitment, and service expected from the sighting industry leader. Whatever your shooting discipline, we wish you the best shooting, and again, we thank you for choosing the HWS. This user manual describes the features of the HWS models 502, 511, 512, 551 and 552. Please read the instructions carefully before mounting and using the sight and always practice proper firearm safety. HOOD Models 511, 512, 551, 552 and 554 are equipped with a protective hood. This hood is pre-assembled at the factory and is non-removable. Should your hood require maintenance please contact our Customer Service Department from number on page 6 of this manual. An initial set of batteries comes with your sight. The HWS is designed to maintain constant brightness at a particular setting as the batteries drain down.

The reticle brightness will not fade gradually as the batteries run down but rather shut down abruptly. @@@@Please read and follow the battery replacement and battery check procedures described in this Manual. Alkaline batteries from different manufacturers are not all constructed the same way. Tests show some brands are more susceptible to degradation by the shock of recoil. We recommend the use of Eveready Energizer™ batteries with the HWS. It is always good practice to replace the batteries with a fresh set before a mission. Two (2) common AA size batteries power your Model 554, 552 or 512 HWS. An initial set of AA size alkaline batteries comes with your sight. eOTech recommends using Energizer Alkaline or Lithium AA batteries. Lithium AA batteries offer longer life, particularly at temperatures below freezing.

For this reason Lithium AA batteries are recommended for cold weather operations. However, we should note that the battery checking function which is based on the characteristics of Alkaline batteries does not operate properly with Lithium batteries. **REPLACING BATTERIES** Remove the battery compartment by lifting up on the locking cam lever and carefully sliding the battery compartment away and up from the sight housing (Figure 2). After the battery compartment is removed, slide the batteries out and replace them with a fresh set. The labels on the bottom of battery compartment show the correct battery orientation. Always make sure the gasket is free of dirt before the battery compartment is re-installed or the water proofing may be compromised. To re-install the battery compartment, point the sight towards the ground and slide battery compartment onto base. Make sure there is enough clearance between the contact and the batteries to avoid bending the contacts. Hold the battery compartment down firmly against the base and close the locking cam. Before you push down on cam lever, make sure the battery compartment sits all the way down and is parallel to the base.

Verify correct battery installation immediately by turning on the sight and checking if the holographic reticle appears. If the batteries are left in the sight backwards, they will be drained of their power. **ELECTRONIC FEATURES** All electronic controls are via push-button switches located at the rear of the unit housing as shown in Figures 1. To ensure proper operation of the push button switches we recommend pressing firmly on the center of the switch. 1. ON/ AutoBattery Check Depressing the Up or Down Arrow push-button switches will turn the sight ON at Level 12. (For the Model 554, the sight will turn on at Level 12 when the UP button is depressed and it will turn on at Level 1 when the DOWN Button is depressed). See step 4 under this section for description of Auto shutdown. The sight will automatically perform a battery check everytime it is turned on. If the batteries have less than 20% of life left, the sight will turn on with the reticle image blinking on and off for 5 seconds.

If the remaining battery life is more than 20%, the sight will turn on with a steady reticle pattern. The battery condition can be checked any time by turning the sight off and back on. 2. OFF To turn the sight off depress both UP and DOWN arrows simultaneously. Depressing and releasing the push-button switches moves the brightness level UP or DOWN one (1) step from the previous setting.

Depressing and holding the up arrow or down arrow switch will change brightness level up or down continuously in steps. There are twenty (20) brightness settings providing a dynamic range of 146,000:1 from the lowest setting to the highest setting. @@@@2 will turn the sight ON in Night Vision Mode. @@@@2. @@@@There is absolutely no light projected onto the target plane.

To mount the sight, please follow these steps. @@@@1. @@@@When cleaning the glass surfaces, first blow away any dirt and dust. @@@@3. All moving parts of the sight are permanently lubricated. do not try to lubricate them. No maintenance is needed on the sight's surface, except to occasionally wipe off with a soft cloth. use only a water-based cleaner such as glass cleaner, ammonia, or soap and water. Never use any solvent-type cleaner such as alcohol or acetone. The elevation and windage adjustment are located on the Right-hand side of the sight (Figure 1).

The knob towards the front is your windage adjustment and the knob towards the rear is your elevation adjustment (Figure 1). Both of these adjustment mechanisms are grooved with a slotted screw head and require the use of a screwdriver, coin, or spent brass to turn. The elevation and windage adjustments are shown in Figure 3. For both elevation and windage, each click will change the bullet's point of impact 1/2 Minute of Angle (MOA), which translates to 1/4 inch at 50 yards, 1/2 inch at 100 yards. Also, one full rotation of either knob will change your point of impact 10 MOA. This translates into 5 inches at 50 yards, 10 inches at 100 yards. To move the point of impact UP, turn the adjustment screw counterclockwise; to move the point of impact DOWN, turn the adjustment screw clockwise. To move the point of impact RIGHT, turn the adjustment screw clockwise; to move the point of impact LEFT, turn the adjustment screw counterclockwise. The elevation and windage adjustments have been initially set at the factory such that the line of sight to the center of the reticle is parallel to the mounting rail on the weapon. The sight should be close to being at zero with a properly installed mounting rail.

Please do not turn the adjustments before mounting the sight on the firearm. Be sure to check that the mount and the sight remain secured after the first shots are fired. **CAUTION**-When encountering a sudden increase in resistance in these adjustments, the end of the adjustment range has been reached. **DO NOT TRY** to turn the adjustments any farther or serious damage may occur to the sight. **LASER SAFETY ISSUES** The HWS is a Class II laser product.

The Class II level illuminating beam, however, is completely blocked by the housing.



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The only laser light accessible to the eye is the image beam and is at a power level within the limit of a Class IIa laser product. The illuminating beam can become accessible to the eye if the housing is broken. Turn the sight off immediately and return the broken unit to the factory for repair. NOTE 1: Loosen screw just enough to mount and dis-mount the sight.

Do not back screw out completely to avoid losing the Weaver® lock hardware. NOTE 2: A Picatinny rail cannot be installed directly on some weapons. EOTech sells mount adapters to provide a standard Picatinny rail for various weapons used in today's military and law enforcement applications. Contact a Factory representative if you are unclear on the mounting adapter you should use on your weapon. BORE SIGHTING AND ZEROING Bore sighting is a good preliminary procedure in achieving proper alignment of your sight to the firearm. If the 1" dovetail rail is not mounted parallel to the barrel, major elevation adjustments may be accomplished by shimming the dovetail rail. It is important not to use the elevation adjustment of the sight for major adjustments. Your sight's internal elevation and windage adjustments should be reserved for fine-tuning to achieve zero at the called for distance. Final zeroing of your firearm and sight should be done with live ammunition and based on your expected shooting distance. @@@@ also , include your receipt at the time of purchase.

Whenever possible, ship the sight in its original box. @@WARRANTY STATEMENT All HOLOgraphic Sights are crafted with pride in the U. More importantly, they are manufactured with our customer's satisfaction in mind. EOTech warrants every product to be free from defects in materials and workmanship for a period of two years from the original date of purchase. EOTech will promptly repair or replace at its option any product that is defective in material or workmanship, without charge. all costs associated with the product shipment for product repair will be incurred by the owner. This warranty does not cover defects caused by improper handling.



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