



Trijicon®

Brilliant Aiming Solutions™



Trijicon RMR® HD

Instruction Manual

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Warnings & Cautions

WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **INTERNAL CHEMICAL BURNS** in as little as **2 HOURS**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- **SEEK IMMEDIATE MEDICAL ATTENTION** if a battery is suspected to be swallowed or inserted inside any part of the body.



-  Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. DO NOT dispose of batteries in household trash or incinerate.
-  Even used batteries may cause severe injury or death.
-  Call a local poison control center for treatment information.
-  Compatible with 3.0 Vdc CR2032 batteries only.
-  Non-rechargeable batteries are not to be recharged.

Warnings & Cautions

- ⚠ Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- ⚠ Ensure the batteries are installed correctly according to polarity (+ and -).
- ⚠ Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- ⚠ Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- ⚠ Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

Warnings & Cautions

⚠ **WARNING**

Before installing the optic on a firearm, ensure the firearm is UNLOADED.

⚠ **WARNING**

It is not recommended to mount the RMR® HD on pistols if the front of the optic overhangs the chamber/breach face as this may cause the pistol to malfunction (**Figure 1**).

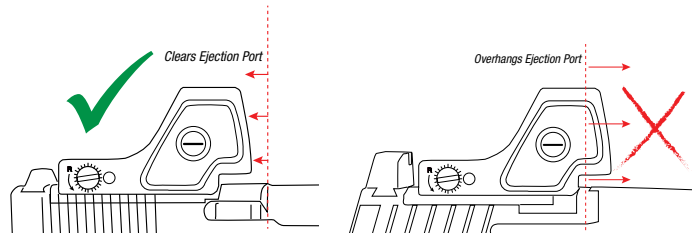


FIGURE 1

Warnings & Cautions

CAUTION

This Trijicon® product is shipped with a new lithium battery. Lithium batteries or lithium button cells pose the risk of fire. The battery can explode or leak and cause injury if installed backwards, disassembled, charged, crushed or exposed to fire or high temperature. Keep out of reach of children. Check local municipality for proper disposal. California Only; Perchlorate Material – special handling may apply.

CAUTION

DO NOT allow harsh organic chemicals such as acetone, trichloroethane, or other cleaning solvents to come in contact with this Trijicon® product. They will affect the appearance, but not the performance.

Repair or maintenance other than that described in this manual is prohibited by anyone other than the manufacturer.

The Science of Brilliant®

At Trijicon, we are bound by a commitment to industry-leading research, design, and testing to seek innovative aiming solutions that constantly redefine “brilliant.” That is why Trijicon products are subjected to the following testing methods:



Alaska-to-Africa Temperature Tested

To ensure each family of riflescopes is ready for whatever our users put them through, we perform “Alaska-to-Africa” temperature shock tests with temps from -20°F to 140°F.



Immersion Tested

All models are immersion tested, and every riflescope is dry-nitrogen filled to eliminate internal fogging.



Solid Zero Tested

Our riflescopes are designed to hold their zero giving you the precision you need. Every model is subjected to 5,000 consecutive rounds, confirming no reticle shift has occurred.



Shock & Vibration Tested

All riflescope models are tested to withstand recoil and vibrational stresses without malfunction, so it can take a beating before, during, and after use.



Drop Tested

Because we don't believe every drop should be followed by a warranty claim, we drop test each riflescope design to check for durability.

Introduction

The Ruggedized Miniature Reflex HD (RMR® HD) is based on the award-winning RMR® and incorporates RMR levels of mechanical and electrical durability with a larger field of view and top loading CR2032 battery.

The large clear lens provides an unobstructed view of the target, aids in finding and tracking the dot more easily, and provides quick target acquisition when aiming with both eyes open. Accuracy is further enhanced with both windage and elevation adjustments (see page 49, 51) making the RMR HD a perfect choice for multiple small arms platforms that require fast target acquisition and aiming clarity.

The RMR® HD does not need to be removed to change the top load CR2032 battery, thus alleviating concerns regarding the need to re-zero the optic. Even though all Trijicon® optics maintain their zero after changing batteries (even those that are removed and properly reinstalled), Trijicon strongly recommends that the user confirms the optic's zero anytime a battery is replaced.

The RMR HD uses the industry leading Trijicon RMR mounting footprint making it compatible with most firearms already accepting the RMR. Like the RMR, the RMR HD is compatible with slides milled up to .180" deep, and in most cases a user can upgrade to the RMR HD and keep

Introduction

the same Iron Sight co-witness. The RMR® HD will also work with traditional suppressor height Iron Sights in the same way as the RMR®.

NOTE: See page 7 for important warnings on mounting the RMR HD to a slide.

The RMR HD dot and reticle brightness can be adjusted both manually or automatically. Automatic brightness adjustments are achieved through a forward-facing sensor that detects lighting conditions in the direction of the target and automatically adjusts to the optimal dot/reticle brightness. It also incorporates additional functions that provide enhanced customization for the individual user. These functions are summarized in the following table.

Mode	Description
Reticle Selection	Choose between dot with reticle (default), or dot only. See page 34 for instructions on adjusting this mode.
Brightness Response	Choose between three automatic modes. Normal (default), High Auto, Low Auto. See page 36 for further function definition and instructions on adjusting this mode.
Reticle Relative Brightness	Adjust the brightness of the reticle relative to the dot. See page 39 for further function definition and instructions on adjusting this mode.
Button Lock-Out	Place the optic in automatic mode and lock-out manual adjustment. See page 27 for instructions on accessing this mode.
Manual Brightness Lock-In	Manually lock the optic into a particular brightness setting. See page 29 for instructions on accessing this mode.

RMR® HD Specifications	
Magnification	1x
Sight Window	.85 x .64 in. 21.6 x 16.2mm
Adjustments	1 click = 1 MOA
Adjustment Range	±60 MOA
Dimensions (LxWxH) (w/o mount)	2.15 x 1.27 x 1.19 in. 54.6 x 32.3 x 30.2mm
Weight (w/o mount)	1.69 oz. (w/ battery) 44.7g
Optical Center Over Base	0.69 in 17.53mm
Illumination Source	LED Powered by a Top Loading CR2032 (Lithium Battery)
Battery Life	3.4 years of continuous use, at setting 5 of 9, dot only
Brightness Settings	Automatic and 9 Adjustable Settings (3 NV, 6 Visible)
Housing Material	7075-T6 Forged Aluminum Housing

For available mounting adapters, please visit our website.

Controls & Indicators

- A** Elevation Adjuster
- B** Lens
- C** Plus (+) Brightness Adjuster
- D** Minus (–) Brightness Adjuster
- E** Windage Adjuster



FIGURE 2

Identification & Markings

- F** Model
- G** Serial Number
- H** Dot Size



FIGURE 3

Installation Instructions

WARRANTY VOID WARNING: The bottom of the RMR® HD is completely sealed and does not require a sealing plate to make optic waterproof. Removing or tampering with the bottom plate and/or seal will void the Trijicon warranty.

The RMR HD can be directly mounted to most RMR® footprints, as long as there is clearance in front of the optic to other sighting systems or obstructions for more clarification refer to **Figure 1**. The user should ensure the proper length screws are used for their mounting solution.

Installation Instructions

Two (2) sets of screws are supplied with the RMR® HD. Both sets are #6-32 flat head torx cap screws. One (1) set is 1/2" long, and the other is 3/8" long. The shorter screws are required for mounting the RMR® HD to a Glock® MOS system. For other mounting applications use the longer screws whenever possible, to maximize thread engagement. Your specific mounting application may require screws of different length or thread pitch. It is recommended to torque the supplied mounting screws to 15 in-lbs.

Preparation for Use

Battery Installation

Install battery so that the positive (+) side faces UP (as shown).



FIGURE 4

Preparation for Use

Ensure the battery cap o-ring is properly seated in its groove on the cap before assembly to the housing. Set the cap into the housing lightly pressing down to mate the leading threads of the cap to the housing pocket. Using a tool (flat blade screw driver, penny, dime, nickel, 9mm case rim, .223 Rem case rim, etc.), rotate/turn the cap clockwise until resistance is felt. Take care not to cross thread the cap and pocket threads. The cap should thread easily if the threads are aligned during installation. Ensure the battery cap o-ring is properly seated in its groove on the cap before assembly to the housing.

Operation

The RMR® HD uses one (1) CR2032 battery to power the LED which is included in the original packaging and already installed in the optic.

The battery life has been tested to provide over three years (for dot only mode on setting 5 of 9) of “continuously on” power in normal operating conditions. Extreme high and low temperatures, usage on higher brightness settings, using the complex reticle, or a combination of these variables will have dramatic effects on the battery life.

Operation

Trijicon recommends replacing the battery once a year, or more frequently if used on higher brightness settings, or continuous use of dot and reticle. The dot and reticle brightness at each setting will remain constant throughout the life of the battery. However, if the voltage drops too low, the RMR® HD may not power up normally, which would require the battery to be replaced.

RMR® HD

To turn the unit on, simply press and release one of the buttons on either side of the unit, and it will power into the default Auto Brightness Adjust Mode. The plus (+) and minus (–) buttons on each side control the Manual Brightness Adjust. There are nine (9) brightness settings, one (1) being the dimmest and nine (9) being the brightest.

Please note that settings 1, 2, and 3 are designed to be used with night vision devices and will not be visible to the naked eye.

Operation

To place the unit in Auto Brightness Adjust Mode (where the dot and reticle automatically adjusts to ambient light), press both the plus (+) and minus (−) buttons simultaneously for less than one (1) second and release. To turn the unit off, press and hold both the plus (+) and minus (−) buttons for at least six (6) seconds. After approximately three (3) seconds you will see the dot begin to blink, this is normal, continue holding until the unit turns off.

To place the RMR® HD into Button Lock-Out Mode:

1. The RMR HD must be turned off with a battery installed.
2. Press and hold both the plus (+) and minus (−) buttons for at least three (3) seconds and the RMR HD will power up in Auto Brightness

Adjust Mode with manual brightness settings locked out.

3. To regain manual adjustment, press and hold both the plus (+) and minus (−) buttons for at least six (6) seconds to shut off the RMR HD.
4. Press either the plus (+) or minus (−) button to turn the RMR HD on into Auto Brightness Adjust Mode. You will now have the ability to adjust the brightness manually with subsequent presses of a button.

NOTE: When in Button Lock-Out Mode you will be unable to access Reticle Selection Mode, Brightness Response Mode, or Reticle Relative Brightness Mode. You must exit Button Lock-Out Mode to make changes to these settings.

Operation

To place the RMR® HD into Manual Brightness Lock-In Mode:

1. The RMR HD must be on and not in Button Lock-Out mode.
2. Manually select the desired brightness setting by pressing either the plus (+) or minus (−) button. Once the desired setting is selected, press and hold either button for three (3) seconds. The dot will blink accepting the brightness level and will then lock into that setting.
3. To change Lock-In settings, press and hold both buttons for one (1) second to return to manual control. Repeat step 2.

NOTE: When in Button Lock-Out Mode, you will be unable to access Brightness Response Mode, Reticle Select Mode, or Reticle Relative Brightness Mode. You must exit Button Lock-Out Mode to make changes to these settings.

Operation

RMR® HD provides three (3) user modes that allow a user to customize certain settings to their preferences.

Reticle Selection Mode

Choose between dot with reticle, and dot only. The default setting is dot with reticle. See page 34 for instructions on changing reticle selection.

Brightness Response Mode (BRM)

Choose between three (3) mode responses. Normal (default), High Auto, or Low Auto. For example, if the user's perception is that the dot with reticle

is too dim in Auto Mode at the default setting, switch to High Auto. If the user's perception is that the dot and reticle is too bright at the default setting, change to Low Auto. If the user finds the default setting acceptable for their purpose, no changes are required. See page 27 for instructions on changing Auto Brightness Adjust Mode.

Reticle Relative Brightness Mode

The default setting of the reticle and dot brightness are approximately equal. The user can choose to make the reticle one setting brighter, or one setting dimmer than the dot. See page 39 for instructions on changing Reticle Relative Brightness.

NOTE: When changes to the above settings are made, they are saved in internal memory. Turning off the unit, or removing its battery, will not restore these settings to their factory default. To restore all settings to factory default a factory reset can be completed by holding both buttons for >20 seconds. See page 46 for further details.

When entering any of the three modes (Reticle Selection Mode, Brightness Response Mode, Reticle Relative Brightness Mode) they can be exited by holding a single button (either the plus (+) or minus (–) button) for greater than three (3) seconds, or pressing no buttons for greater than 10 seconds.

The unit will save the last setting and return to normal operation. These three (3) modes cannot be accessed when in Button Lock-Out Mode, or Manual Brightness Lock-In Mode.

Reticle Selection Mode (RSM)

To enter RSM:

1. Press and hold both the plus (+) and minus (–) buttons for at least three (3) seconds. After three (3) seconds the dot will begin to blink rapidly, release both buttons.
2. The dot will continue to blink. Press either the plus (+) or minus (–) button to cycle the reticle on/off.

Operation

3. Once the desired setting is achieved press and hold the plus (+) or minus (−) button for at least (3) three seconds, the dot will stop blinking (indicating that the setting has been saved), and the unit will return to normal operation.
4. When in RSM, if no button presses are made for ten (10) seconds the dot will stop blinking, the current setting will be saved, and the unit will return to normal operation.

Brightness Response Mode (BRM)

To enter BRM:

1. Press and hold both the plus (+) and minus (−) buttons for at least three (3) seconds. After three (3) seconds the dot will begin to blink rapidly, release both buttons.
2. While the dot is still blinking press and hold both buttons again, for at least three (3) seconds, the dot will go from a rapid blink to a slow blink, release both buttons.
3. While the dot is slow blinking press the plus (+) button to change BRM to High or press the minus (−) button to change BRM to Low.

Operation

4. When changing between High, Normal (default), and Low, the dot and reticle will change in brightness to indicate the change.
5. Once the desired setting is achieved press and hold either the plus (+) or minus (−) button for at least three (3) seconds, the dot will stop blinking (indicating the setting has been saved), and the unit will return to normal operation.
6. When in BRM, if no button presses are made for ten (10) seconds the dot will stop blinking, the current setting will be saved, and the unit will return to normal operation.

Note: BRM has only three settings, High, Normal (default), and Low. Subsequent presses of the plus (+) or minus (−) button will not further change the response beyond High or Low. For example, if at the Normal setting, pressing the plus (+) button more than once will not further change the BRM beyond the High setting.

Operation

NOTE: If the unit is in dot-only mode, the reticle will turn on when entering RRBM and will turn back off when exiting this mode.

Reticle Relative Brightness Mode (RRBM)

To enter RRBM:

1. Press and hold both the plus (+) and minus (−) buttons for at least three (3) seconds. After three (3) seconds the dot will begin to blink rapidly, release both buttons.
2. While the dot is still blinking press and hold both the plus (+) and minus (−) buttons again, for at least three (3) seconds, the dot will go from a rapid blink to a slow blink, release both buttons.
3. While the dot is slow blinking press and hold both buttons for a third time for at least three (3) seconds, the dot will stop blinking and the reticle will start blinking, release both buttons.

Operation

4. While the reticle is blinking, press the plus (+) button to make the reticle brighter than the dot, press the minus (–) button to make the reticle dimmer than the dot.
5. Once the desired setting is achieved, press and hold either the plus (+) or minus (–) button for at least three (3) seconds, the reticle will stop blinking indicating the setting has been saved, and the unit will return to normal operation.
6. When in this mode, if no button presses are made for ten (10) seconds, the reticle will stop blinking, the current setting will be saved, and the unit will return to normal operation.

NOTE: RRBm has only three settings, Bright, Normal (default), and Dim. Subsequent presses of the plus (+) or minus (–) button will not further change the relative brightness. For example, if at the Normal setting, pressing the plus (+) more than once will not further change the relative brightness of the reticle beyond the “brighter” setting.

Operation

Replacing Batteries

If the RMR® HD is mounted, there is no need to remove it from the firearm to replace the battery. Ensure the firearm is free of any ammunition source before replacing the battery. Inspect the new battery to ensure there is no corrosion or damage. Install the battery into the sight using the procedures on page 22. Ensure the sight is now functioning and the dot illuminates.

The RMR® HD is waterproof up to 66 ft. (20 m) for one (1) hour of submersion as shipped from the factory. The bottom plate is permanently attached and should not be removed by the user.

The RMR HD is equipped with a 16.5 hour timer that puts the RMR HD into Automatic Mode after the timer expires. The timer adds the benefit of conserving battery power by automatically dimming the RMR HD if it is left in Manual Brightness Adjust Mode and placed in dark storage (gun safe, case, etc.). The 16.5 hour timer will restart every time a button is pressed to manually adjust the dot brightness.

NOTE: Using the Manual Brightness Lock-in Mode shuts off the timer, removing the benefit of the Battery Conservation Feature for the duration that the Lock-in mode is activated.

Operation

The RMR® HD will conserve power by dimming itself when placed in dark storage. Turning the RMR® HD off will also extend the battery life substantially.

Factory Reset

To return all user settings (RSM, BRM, RRBm) to their default settings, press and hold both the plus (+) and minus (–) buttons for a minimum of 20 seconds. The unit will turn off after approximately six (6) seconds, continue holding, after a total of >20 seconds has passed the dot will blink and the unit will turn on in its factory default settings. RSM will be “Reticle On”, BRM will be at “Normal”, and RRBm will return to reticle brightness being equal to dot brightness.

Adjustment Procedures

The Trijicon RMR® HD is internally adjustable. It is shipped with the illuminated dot/reticle in a factory centered position. Normally, this means that only small adjustments are necessary. The adjusters do not require a specific tool. Simply use a coin, such as a dime or penny, to fit the slot on the adjustment dial. Other useable items include the rim of a cartridge case or a flat-head screwdriver.

CAUTION: The Windage and Elevation Adjusters should never be moved all the way to the extremes. It is possible that over-adjustment can damage the sight. When rotating the adjusters, the resistance will increase as you reach the limits of the mechanism. If adjusted past this point, the mechanism may break. If you have questions please contact Trijicon Customer Service at 1-800-338-0563 or email info@trijicon.com.

Adjustment Procedures

Elevation Adjustment

Moving the Elevation Adjuster in the direction of the arrow (counterclockwise) will move the bullet's Point of Impact (POI) UP as indicated on the adjuster (**Figure 5**). Adjustment increments are one (1) MOA per click, meaning that one (1) click is required to move the bullet's impact one (1) inch on a target at 100 yards. The amount of clicks can be detected through audible and tactile feedback. The laser etched tick marks on the housing along with the small indicators on the adjustment screw can be used for adjustment reference. Each tick represents approximately two (2) MOA.

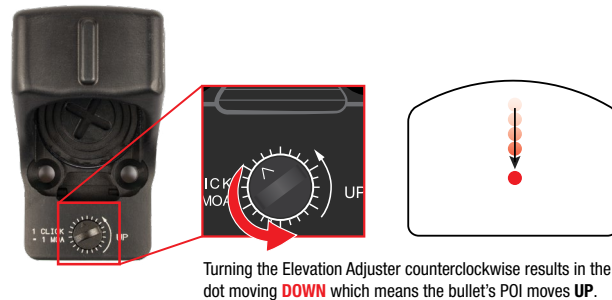
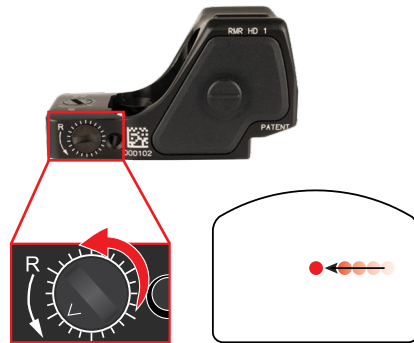


FIGURE 5

Adjustment Procedures

Windage Adjustment

Moving the Windage Adjuster in the direction of the arrow (counterclockwise) will move the bullet's Point of Impact (POI) **RIGHT**, as indicated on the adjuster (**Figure 6**). Adjustment increments are one (1) MOA per click, meaning that one (1) click is required to move the bullet's impact one inch on a target at 100 yards. The amount of clicks can be detected through audible and tactile feedback. The laser etched tick marks on the housing along with the small indicators on the adjustment screw can be used for adjustment reference. Each tick represents approximately two (2) MOA.



Turning the Windage Adjuster counterclockwise results in the dot moving **LEFT** which means the bullet's POI moves **RIGHT (R)**.

FIGURE 6

Zeroing Procedures

25 Yard Zero

Center the aiming dot on a 25 yard target and fire a precise shot group – a minimum of three (3) rounds. Evaluate the location of the shot group compared to your Point of Aim (POA). Adjust the Windage and Elevation, and shoot another series of shots, until the center of the shot group is on the center of your POA. This establishes the POA as the Point of Impact (POI) for the bullet.

One (1) MOA = one (1) click, which provides about a one (1) inch shift in bullet impact at 100 yards or $\frac{1}{4}$ inch per click at 25 yards.

NOTE: Once the RMR® HD changes firearm platforms, it will need to be re-zeroed for the new firearm.

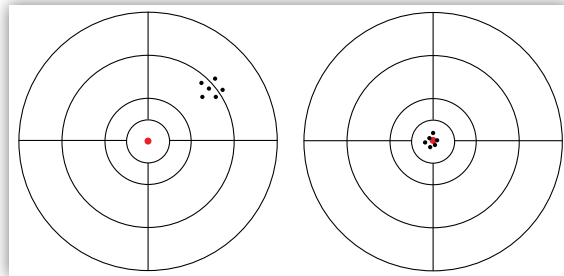


FIGURE 7

Cleaning & General Care

General Information

This Trijicon® product requires very little maintenance. If the lenses become dirty, wash using fresh water or lens cleaner and a soft clean cloth.

The outside lenses may fog over in cold weather. Remove fog by using a dry, clean soft cloth. Anti-fog solutions can be applied to the exterior of the lenses to help prevent fogging during temperature changes.

Appendix

Troubleshooting

Please visit www.trijicon.com for answers to any questions you might have regarding your product. For more detailed information, please contact our Customer Service Department at 1-800-338-0563, or email us at customerservice@trijicon.com.

Models & Accessories

Visit www.trijicon.com or contact Trijicon Customer Service at 1-800-338-0563 or for all available mounts and accessories.

Patents & Trademarks

U.S. patents may apply to this product. Visit www.trijicon.com/patents

Limited Lifetime Warranty

The original owner of the Trijicon® product registered with the warranty card is entitled to repair or replacement (at our option) of the registered item if it should fail due to defects in material or workmanship during normal use. This warranty specifically applies to the optical systems and metal structure of the product and does not apply to the illumination system. Electronics are warranted to be free of defects in material and workmanship during normal use for a period of 5 years from the date of manufacture. If repair is necessary, please contact our Customer Service Department for return instructions. This warranty does not apply to defects caused by anything which is deemed abnormal, abusive, or improper including any fault resulting from an accident or improper service. Please note that the manufacturer's warranty will be void and the product cannot be serviced if it is exported from the United States in violation of U.S. Export Control Laws and Regulations. Any attempt at disassembly or repair will annul this warranty. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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