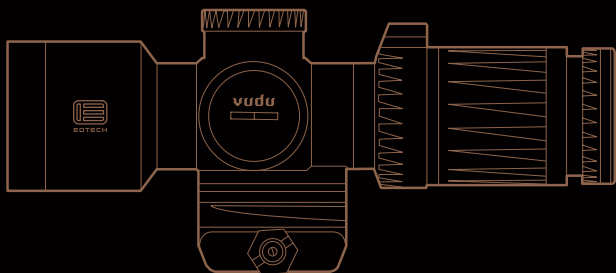




EOTECH®



vudu® 4-12x36 FFP

PRECISION RIFLESCOPE

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Anatomy

At EOTECH, our riflescopes are engineered and constructed to meet the rugged demands of the serious precision shooter. The Vudu 4-12x is the perfect solution for short to medium range applications that require the highest level of durability and accuracy.





Specifications

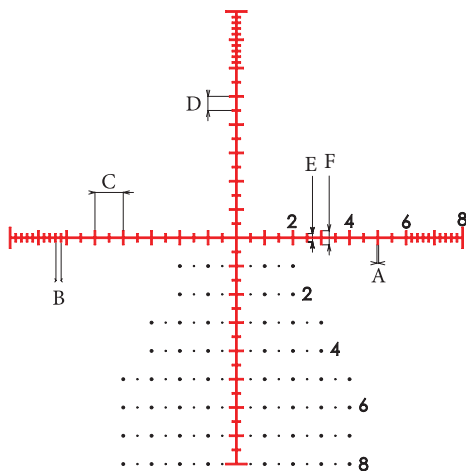
Magnification	4-12X
Focal Plane	First
Objective Diameter	36mm
Illuminated	Yes
Battery Type	CR2032
Overall Length	7.1" (180.3mm)
Weight	16.9 oz (479.1 g) w/ battery + mount
Eye Relief	4x: 2.5-3.1" (65-80mm) 12x: 2.4-3.0" (61-77mm)
Field-of-View @ 100 yds	4x: 28.5 ft (8.6m) 12x: 9.5 ft (2.9m)

Reticle Specifications	MIL
Adjustment Graduation per Click	0.1 MRAD
Adjustment Graduation per Rotation	8 MRAD
Total Elevation Travel	20 MRAD
Total Windage Travel	13 MRAD

Reticles

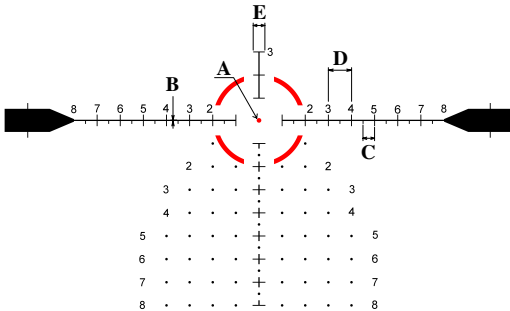
Reticle MD5

DIM	Description	4X
A	Line Thickness (MRAD)	0.06
B	Space between small hash mark (MRAD)	0.2
C	Space between large hash marks (MRAD)	1
D	Space between small/large hash marks (MRAD)	0.5
E	Length of short hash marks (MRAD)	0.3
F	Length of long hash marks (MRAD)	0.5



Reticle MR5

DIM	Description	4X
A	Dot Size (MRAD)	0.2
B	Line thickness (MRAD)	0.05
C	Space between small/large hash marks (MRAD)	0.5
D	Space between large hash marks (MRAD)	1.0
E	Length of long hash marks (MRAD)	0.5



Adjustments

Magnification Adjustment

- The Magnification Power Ring on the 4-12x Vudu scope make adjustments exceptionally fast and easy.
- To change the magnification, simply turn the Magnification Power Ring to the desired level.



Reticle Focus Adjustment

- The Vudu 4-12x riflescope uses an eyepiece focus ring that is designed to quickly adjust the focus of the riflescopes reticle.
- To adjust the reticle focus, look through the riflescope at a solid background color. Rotate the eyepiece focus dial clockwise or counterclockwise until the reticle image is as crisp as possible for the shooter.

PRO TIP: *A solid white wall or clear sky make for good backdrops.*

- Once the focus adjustment is complete, it is not necessary to re-focus every time the riflescope is used. However, it is a good idea to occasionally re-check this adjustment.



Illumination Adjustment

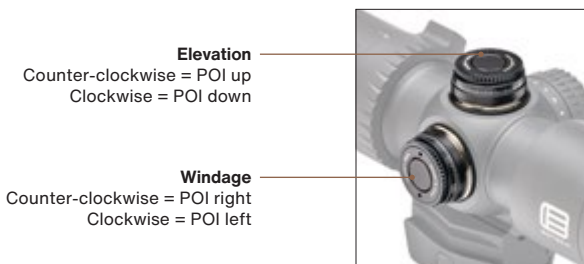
- The Vudu 4-12x riflescope uses an illuminated reticle to assist the shooter in low light conditions. The illumination is controlled by a rotary switch located on the left side of the riflescope main body. It provides Off positions between each of the 10 levels of operator controlled brightness settings.



Rotary switch
with 10 brightness
settings

Elevation and Windage Adjustment

The Vudu 4-12x riflescope contains capped, tool-less, adjustable elevation and windage turret dials for zeroing your riflescope. The adjustments contain an audible click with a distinctive tactile feel to assist the shooter in making the proper Point-of-Impact (POI) correction. The turrets are clearly marked with the appropriate correction in MRAD adjustments.



The Vudu 4-12x riflescope turrets use clicks calibrated for milliradian (MRAD).

Each click of the turret will approx. adjust the POI as follows:

Meters	0.1 MRAD =
100	0.36 in / 1cm
200	0.72 in / 2cm
400	1.44 in / 4cm
600	2.16 in / 6cm

Re-Indexing the Turret Dials

After successfully zeroing your riflescope, the indicator numbers located around the perimeter of the turrets will likely be set on a number other than 0. You can quickly and easily re-index this scale back to 0. Although not necessary, it is recommended that you perform this step as it will allow you quickly return back to your zero at any time without needing to remember the numeric turret location.

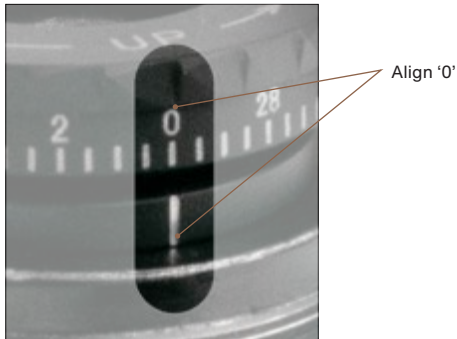
To re-index the turret scale back to 0, perform the following steps:

1. Unload and clear your rifle.
2. With your thumb and index finger, pull the outer turret dial upward to disengage it from the turret housing.



3. While in the upward position, turn the turret dial to align the '0' with the engraved alignment marking on the riflescope body.
4. When aligned, lower the turret dial back down, ensuring the '0' remains aligned with the mark.

Your riflescope is now set to '0'. Should you need to make any turret adjustments to correct for distance or wind, you can quickly return back to this original zero setting. This feature also serves as a quick visual aid to verify that your turrets have not been inadvertently moved.



Eye Relief

Before attaching the Vudu 4-12x to the rail, it is important to find the position for optimum eye relief. Proper eye relief will make for a more comfortable shooting position and help prevent injury from recoil.

To adjust for eye relief:

- Turn the 1/2-inch nut (*see Figure A*) counterclockwise to open the mount to accept the rail.
- While holding the rifle in a normal shooting position, move the scope toward or away from your eye until you have a full field of view. For the Vudu 4-12x, this will be approximately between 2.4–3.0 inches.
- You are now ready to mount the optic to the firearm.



FIGURE A

Riflescope Mounting

- To obtain the optimal performance from your Vudu 4-12x riflescope, proper mounting is required.
- Only mount your riflescope on a cleared and empty rifle while observing safe gun handling.
- For convenience, the 4-12x comes preassembled and incorporates the proper torque values on the mount attachment screws (*see Figure A*).
- To mount to the rifle, place the optic at a position on the rail that provides the proper eye relief. Once positioned, tighten the 1/2 inch nut to 65 in-lbs.
- The integrated mounting interface is adaptable with other Trijicon mini-ACOG mounts. If using an aftermarket mount, follow the manufacturer's installation instructions. (*Not compatible with LaRue LT105 mount.*)

Battery Replacement

- To change the battery, use your thumb and index finger to hold the rotary brightness dial. Using your other hand, unscrew the outer battery cap.
- Remove the battery and replace with a new **CR2032** battery.
- The battery should be inserted with the positive side facing outward.

PRO TIP: *It is recommended to remove the battery during storage.*



Optional Offset EFLX

The Vudu 4-12x offers an opportunity to add an EOTECH EFLX 1X Mini Reflex Sight to provide a fast acquisition aiming dot. This could be bundled with the 4-12x optic or available for purchase separately.

Mounting the EFLX

- The EFLX comes with (2) Torx flathead fasteners. Align the EFLX optic onto the EFLX mount so that the lugs on the mount seat into the recessed sections of the EFLX base.
- Verify that the screw through-holes of the EFLX align with the threaded holes of the base.
- Insert the (2) torx fasteners.
- Using the torx tool included, tighten down the screws. The screws should be tightened to 17-19 in-lbs.



Attaching the EFLX Ring Mount to the Optic

- Remove the (2) fasteners using the tool included and separate the two mount halves.
- Position the bottom half on the bottom tube section forward of the turrets.
- Mate the top half to the bottom half so both thread holes align.
- Thread each fastener finger tight so the ring mount can still rotate around the tube.
- Align the EFLX at the 12 o'clock position, or at either 45-degree positions left or right. Once satisfied on the placement, tighten down the fasteners to 17-19 in-lbs.



Zeroing Procedure

Bore Sighting

Bore sighting the riflescope saves time and ammunition at the range. This can be done using a laser bore sighter per the manufacturer's instructions or by removing the bolt on a bolt action rifle and visually sighting through the barrel.

To visually bore sight your riflescope:

- Verify that the rifle is clear and unloaded, then remove the rifle's bolt and place the rifle on a stable platform.
- Look through the barrel at a target approx. 100 yards away.
- With the target in the center of the barrel, make elevation and windage adjustments until the reticle crosshair of the riflescope is also centered on the target.
- The riflescope is now bore-sighted. Move on to range sight-in to fine tune your zero.

Live Fire Range Sight-In

- Using the same ammunition that you plan to shoot or hunt with, fire a 3-shot group at your preferred zero distance.
- Keeping the gun barrel steady on your aiming target, adjust your windage and elevation so that the reticle aligns with the approx. center of the 3-shot group.
- Fire another 3-shot group to see if it now groups on the center of the bullseye.
- Repeat this process as necessary to achieve an accurate zero.

After achieving an accurate zero, the windage and elevation dials should be re-indexed (***See Re-Indexing the Turret Dials, page 14-15***).

Cleaning and Care

1. The Vudu riflescope lenses are coated with an anti-reflective material. When cleaning the glass surfaces, first blow or brush away any dirt and dust. Fingerprints and water spots can be wiped off with lens tissue or a soft cotton cloth, moistened with lens cleaning fluid. (Never clean the glass surfaces with a dry cloth or paper towel). Always dampen the glass surfaces prior to cleaning.
2. No maintenance is needed on the exterior surfaces of the riflescope except to occasionally wipe off with a soft cloth. A mild water-based cleaner is all that is required.
3. All moving parts of the riflescope are permanently lubricated. Do not try to lubricate them.
4. Other than the turret caps, do not attempt to disassemble any component of the riflescope. Disassembly will void the warranty.

PRO TIP: *For a list of frequently asked questions, product instructional videos and information on service and accessories, visit our website at eotechinc.com.*

EOTECH reserves the right to change the product specifications at any time without notice. All brand names and product names referenced are trademarks, registered trademarks or trade names of their respective holders. Specifications provided in this user manual are nominal values only. Tolerance ranges consistent with industry best practices apply.

NoBS Warranty

For EOTECH Vudu Precision Riflescopes

EOTECH is proud to offer its No BS (NoBS) Lifetime warranty on its premium line of Vudu Precision Riflescopes. No BS means exactly that. No BS. EOTECH will repair or replace all issues related to materials and workmanship. We want you to be as confident in your purchase as we are in the quality of our product.

Should your Vudu rifle scope ever experience any issues, we will repair or replace it, as determined by EOTECH, with a comparable product in equal or better condition, free of charge, PERIOD. You don't have to be the original owner and you will not need to provide proof of purchase.

We understand your passion for the sport and your reliance on products that will provide years of dependable use. You can depend on EOTECH products and count on us to take care of you.

This warranty does not apply to the following:

- Theft, loss, neglect, or vandalism.
- Abuse, misuse, improper installation and modification, alterations, abnormal use, or accidents.
- Cosmetic damage that does not affect the product's use, operation or performance, as determined by EOTECH.
- Any defect or damage caused by repairs or services not performed by EOTECH.
- EOTECH products not in the Vudu line of riflescopes.

The warranty provided herein shall be the sole and exclusive warranty. There shall be no other warranties express or implied including any implied warranty of merchantability or fitness for a particular purpose or any other obligation on the part of EOTECH with respect to Vudu riflescopes covered by this warranty. EOTECH shall have no liability for any incidental, consequential, or special damages.

Service and Repair

- Visit the manufacturer's website at **eotechinc.com**.
- Navigate to the **Help Center** to complete the Return Authorization Request Form. EOTECH will provide detailed instructions on how to return your optic for repair.
- Contact EOTECH's Customer Service department by calling 888-EOTHOLO (888-368-4656) or submit a request online at **eotechinc.com**.

PRO TIP: *Do not ship the sight(s) without a Return Authorization number — this will severely delay the turnaround time on repair or replacement.*

Contact Information

CUSTOMER SERVICE/REPAIR

888-368-4656

eotechinc.com/help-center

RA# REQUEST WEB ADDRESS

eotechinc.com/help-center

SHIPPING ADDRESS

EOTECH

46900 Port Street

Plymouth, MI 48170 USA

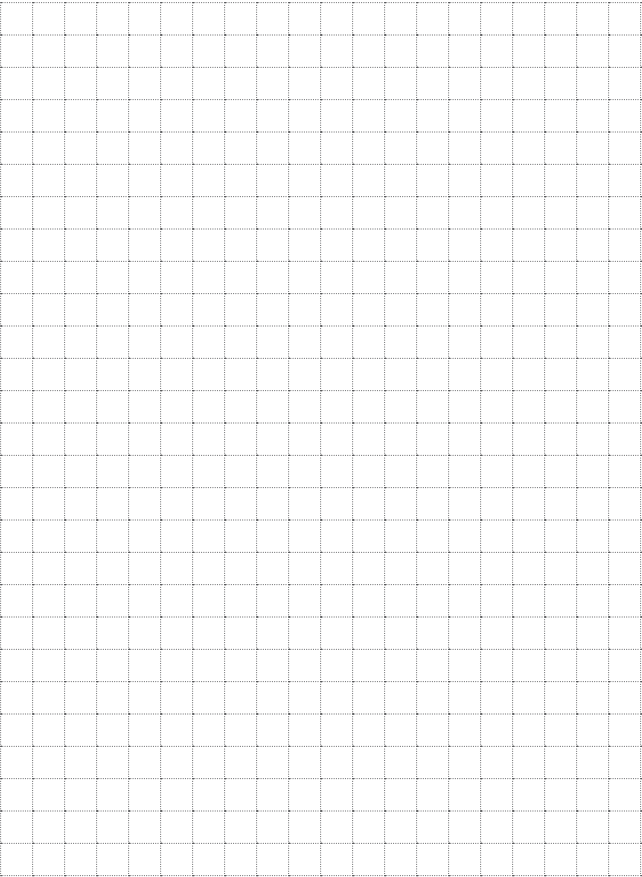
SCAN FOR
PRODUCT
REGISTRATION

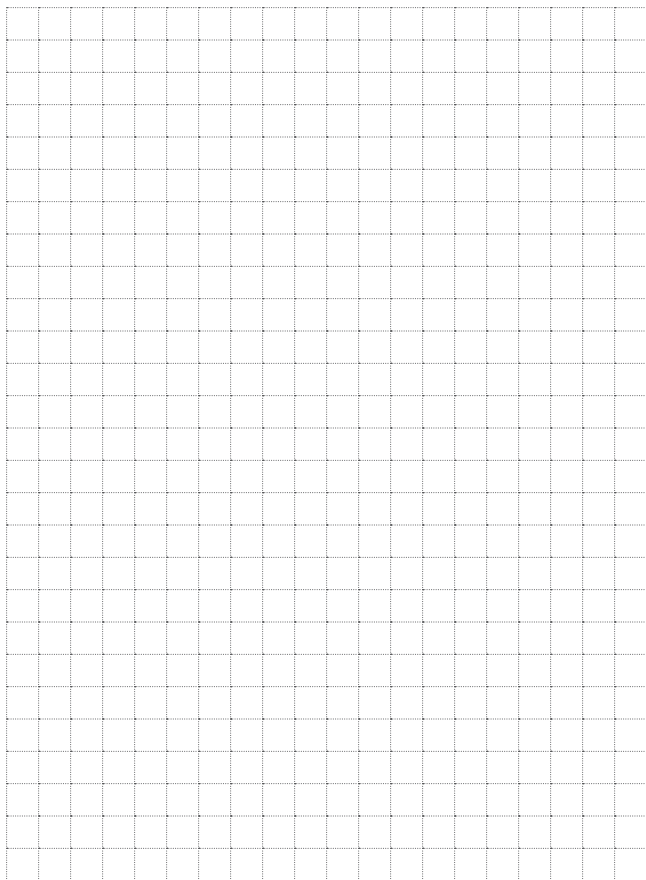


SCAN FOR
WARRANTY
INFORMATION



NOTES







EOTECH®

**Thank you for purchasing an
EOTECH Vudu riflescope.**

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