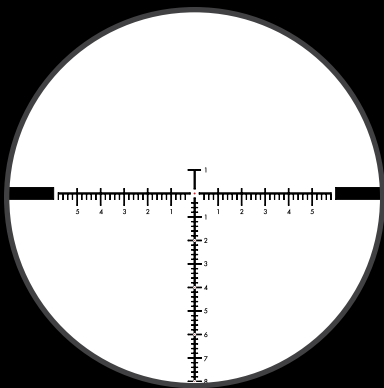




EOTECH®



vudu®

MD3 and MD4

RETICLES

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.

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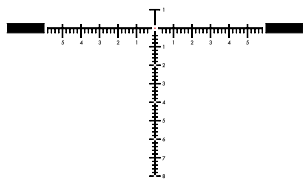
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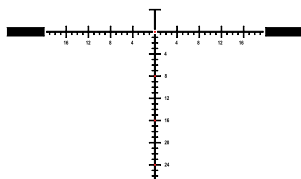
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MD3 and MD4 Reticles

Utilizing the popular MIL-DOT style pattern, the MD3 and MD4 were designed to be versatile medium- to long-range reticles. Combined with the resolution and accuracy of the Vudu First Focal Plane (FFP) riflescope, it will allow you to confidently engage targets in nearly any situation.



MD3



MD4

First (Front) Focal Plane

First (or Front) Focal Plane riflescopes have the reticle installed at the front of the erector tube, forward of the magnification lens. When the magnification is increased, the reticle increases in proportion to the image you are viewing. As a result, the spacing between the actual reticle marks will always subtend the same distance at any magnification setting. This allows the shooter to quickly and accurately mil, hold over or hold off regardless of the magnification setting.

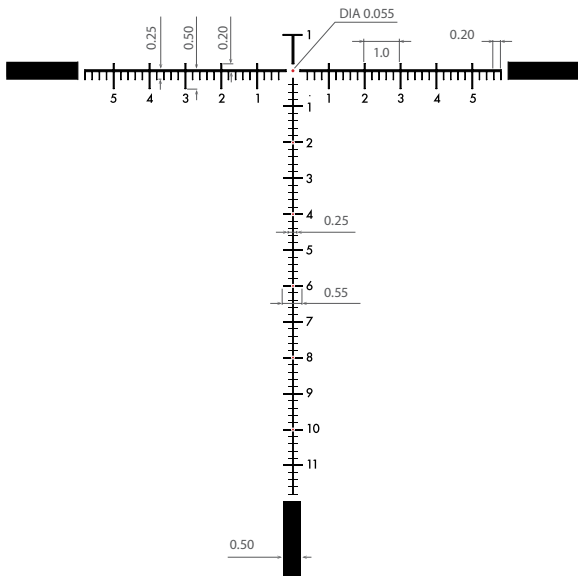
MD3 MRAD Subtensions

The MD3 reticle is based on the milliradian, or MRAD, angle of measurement. With a known target size, this system allows the shooter to use angle ratios to determine distance of target with reliable accuracy. One MRAD subtends 10cm at 100 meters (3.6" at 100 yards). Vudu riflescopes with the MD3 reticle use 0.1 MRAD per click adjustments that subtend to 1cm at 100 meters (0.36" at 100 yards).

MRAD Ranging Formulas

$$\frac{\text{Target Size (in.)} \times 27.8}{\text{MRAD Reading}} = \text{Range (Yards)}$$

$$\frac{\text{Target Size (cm)} \times 10}{\text{MRAD Reading}} = \text{Range (Meters)}$$



MD3 Reticle

NOTE: Subtensions measured in MRADs. Image shown is for representation only.

MD4 MOA Subtensions

The MD4 reticle is based on the Minute of Angle, or MOA, angle of measurement. With a known target size, this system allows the shooter to use angle ratios to determine distance of target with reliable accuracy. One MOA subtends 1 inch (1.047" exactly) at 100 yards. Vudu riflescopes with the MD4 reticle use 0.25 MOA per click adjustments that subtend to .25" at 100 yards.

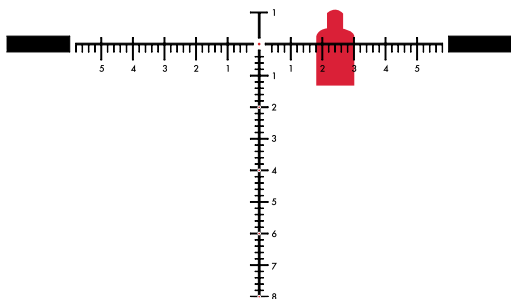
MOA Ranging Formulas

$$\frac{\text{Target Size (in.)} \times 95.5}{\text{MOA Reading}} = \text{Range (Yards)}$$

$$\frac{\text{Target Size (cm)} \times 34.83}{\text{MOA Reading}} = \text{Range (Meters)}$$

Ranging Example

You will first need to know the target size before using these formulas. Then, using either the horizontal or vertical crosshairs, place the reticle on target. Hold on the target long enough to make an accurate reading. The more accurate your reading, the better your range estimation will be. It is recommended to estimate to the nearest 0.1 MRAD if possible.

**EXAMPLE MD3**

Ranging an E-type silhouette target (40" tall × 19.5" wide)

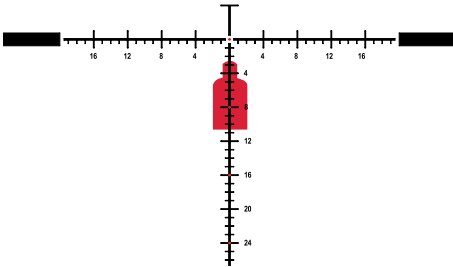
$$\frac{19.5 \text{ in.} \times 27.8}{1.2 \text{ MRAD's}} = 452 \text{ Yards}$$

Elevation Holdovers

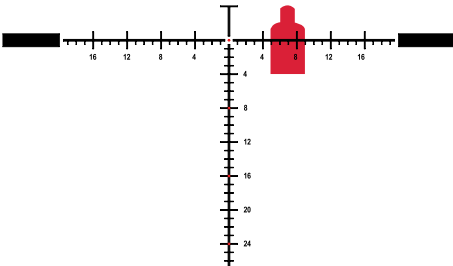
After the distance has been calculated using the reticle or laser rangefinder, the MD3 and MD4 reticles can be used for holdover to compensate for bullet drop. Note that it may be necessary to aim between hashmarks for the most accurate shot placement. EOTECH recommends shooters create and use a DOPE chart (Data On Previous Engagements) to quickly identify their bullet drop at a given range.

All drops are calculated with a 100 yard zero. EOTECH recommends that shooters create and use a DOPE chart (Data On Previous Engagements) for your specific rifle and ammunition choice to quickly identify bullet drop at a given range. Though several factors determine the exact flight path of the projectile, with ballistic data and practice, the BDC holds can be calibrated for any cartridge.

If the shooter prefers, the elevation dial can also be used to dial in your adjustment to compensate for bullet drop. When using the dial for elevation adjustment, always use the center of the inner dot.



EXAMPLE MD4
Elevation holdover



EXAMPLE MD4
Windage holdover

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

For prompt, professional and friendly service contact EOTECH at:

888.EOTHOLO (888.368.4656)
eotechinc.com

Shipping Address

EOTECH
Warranty and Service Department
1201 E. Ellsworth Road
Ann Arbor, Michigan, 48108 USA
Reference RA#

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**Thank you for purchasing an
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VD1911 Rev B
June 2021

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