March® Rifle Scope

Second Focal Plane Reticle Scope

Owner's Manual
(English Language Edition)

Thank you for purchasing your March Rifle Scope. Please read this owner's manual thoroughly before using your scope.

WARNING:

Never use a telescope to look at the Sun.

Using a rifle scope to look at the Sun will cause permanent and irreversible eye damage.

Make sure that you set enough eye relief position of your scope to prevent injury from recoil. Setting your new scope with incorrect eye relief and improper mounting can cause physical damage to the shooter.

For illuminated models please keep batteries out of reach of children.

⚠ WARNING

- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **INGESTION HAZARD**: This product contains a coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed coin battery can cause **Internal Chemical Burns** in as little as 2 hours.
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

Before you mount your new March Scope

Your new March scope has come out of the factory but will need to be set up for your eyes. Before you begin using your March scope, you will need to take a moment to level the scope's reticle, focus the reticle for your eyes and bore sight your rifle.

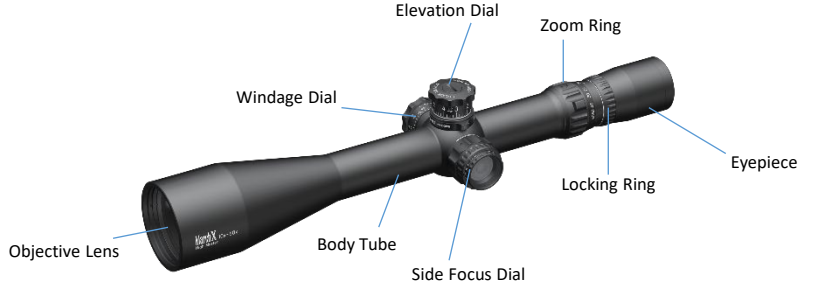
Leveling the reticle for your new March scope is covered on Page 4. Taking the time to do this as you set up your new scope is important to avoid canting and long range shooting errors.

The best way to focus your March scope's reticle is covered on Page 4. This can either be done before or after the scope is mounted on your rifle.

Bore sighting your March scope is covered in more detail on Page 5. Making sure the rings and bases are perfectly aligned before setting up your new scope will help to remove possible sighting errors by eliminating structural pressure on your new scope. It will also keep your March scope as close to its optical center as possible.

Adjusting your new March scope to the extremes of the elevation or windage dials prevents you from sighting through the central axis of the scope. This means you will see the target through the outer edges of the optics, and this will degrade the image resolution.

We hope the following advice is helpful to you in setting up your new March scope.



Mounting your new March Scope

Preferred Rings and Bases

March recommends a one piece base such as a picatinny mount or a Stolle type benchrest rail. A one piece mount removes many of the alignment problems commonly seen in two piece mounting systems.

If a one piece base is not an option with your rifle, then that should not be a serious problem. We recommend that whenever scope rings are installed on a rifle, their alignment needs to be checked before a scope is mounted.

The best way to do this is to use a precision 30mm ring (or 34mm for the March-X and March-FX models) alignment tool. Some lapping of the scope rings may be required to bring the scope rings into alignment. However, if a scope is mounted in rings that are out of alignment, then damage to your new March scope or unreliable performance could occur. Your March Scope dealer can advise on some proper tools to assist you mount your scope in the rings.

Position the scope rings so they do not sit too near the extreme ends of the scope or even too close together and use a torque wrench to tighten the scope ring screws. Positioning the rings at the extreme end of the scope body could also cause damage to your new March. Check manufacturers specifications for torque value. Usually the torque value is 15-18 inch pound /1.7-2.03 newton meter, but will vary depending on Alloy or Steel.

Setting the Eye Relief

With the bolt removed from the unloaded rifle, aim the rifle in your usual shooting position. Very slowly move your March scope until you can see the full field of view. No dark circles at the edges should be present at this stage, and there will be a comfortable eye relief.

Make sure that you set enough eye relief position of your scope to prevent injury from recoil. Setting your new scope with incorrect eye relief and improper mounting can cause physical damage to the shooter.

Leveling the Reticle

It is very important for the vertical reticle to be level with the center of your rifle's bore. If this is not the case, canting of the rifle will occur and this will cause accuracy problems at long range.

One of the easiest ways to check vertical alignment is to use a vertical string line for example at about 10m in front of your rifle. Making sure your rifle is completely level, look through your March scope and confirm the vertical reticle is in line with the vertical string line.

At this point, use a torque wrench to tighten the scope ring screws.

Be sure to not over tighten the screws as this could also cause damage to your new March. Check that the scope has not moved as the screws are tightened.

Focus the Reticle

You have successfully and securely attached the March scope to your gun. Next, align the reticle with your eye sight. Turn the locking ring clockwise to free the eyepiece. Set the scope to the lowest magnification, look through the scope and turn the eyepiece to find the position where you can best see the reticle while looking at something without a background, such as a blue sky or a sheet of white paper at a distance of 4-8 inch (about 10-20 cm). Once determined, turn the lock ring to fix the eyepiece in place.

If you adjust the eyepiece diopter at a high magnification, you will not be able to make an accurate adjustment. Be sure to use the low magnification. If you are near-sighted, rotate the eyepiece body in the – direction, counter-clockwise. If you are far-sighted, rotate the eyepiece body in the +direction, clockwise. When the reticle is focused for your vision, rotate the knurled locking ring until it meets up with the eyepiece body to lock.

DO NOT ATTEMPT TO LOOK AT THE SUN, AS PERMANENT EYE DAMAGE WILL RESULT.

When you turn the eyepiece, the reticle's clarity will change as the focal length changes. When the reticle is focused for your eyes, turn the locking ring counter-clockwise until it is firm against the eyepiece. Do not attempt to over tighten but it must be firm.

Eyepiece Adjustment Line

(Variable Power Scopes except EP-Zoom)

The factory setting of the eyepiece is at -0.5 diopter. It is indicated with white line.

The adjustment to suit normal eyesight should not be too far from this position.

Once the eyepiece is set at the best position for your eyes, it isn't necessary to alter the setting often unless the vision or user changes.

The factory setting of the eyepiece is indicated with white line.

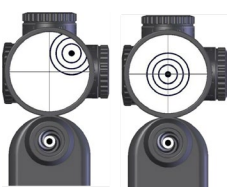
Rotate eyepiece lock ring and align it on the white line to set back to factory setting of the eyepiece.

Sighting in your March Rifle Scope

The easiest way to sight in your March scope is to bore sight your rifle against a target located between for example 25 and 50 meters away. Bore sighting is easy. With your rifle securely rested and the bolt removed, look through the bore and move the rifle until you can see the target centered in the bore.

Without moving the rifle, look through the scope and adjust the elevation and windage settings so that the reticle of the scope is aligned with the center of the target. Once you have made a tentative sight alignment, check it with live fire. Fire at the target and adjust the elevation and windage dial settings to move the reticle to the point of impact. Setting the elevation dial to “UP” raises the point of impact, and setting the dial to “DN” lowers the point of impact. Turning the Windage dial toward “R” moves the point of impact to the right, and turning it toward “L” moves the point of impact to the left.

After you have adjusted your scope to the point of impact, move the reticle back to the center of the target and fire another shot. Repeat the adjustments to the elevation and windage dials until the target and impact point are aligned.



Important note:

Please check where your dials settings are after you have adjusted your rifle zeroed in on the target. The further away the adjustment is from the factory-set center position (of elevation and windage), the optical resolution will degrade more.

Focus/Parallax adjustment

Your March Rifle Scope has a side focus dial that can be used to focus the scope on targets from approximately 10 yards to infinity.

It is critical, particularly for target shooting, that the setting be absolutely parallax free.

This means there should be no movement of the reticle relative to the target. To check this, move your head very slightly upwards and down or left to right and see that the reticle position does not move on the target. Be careful not to accidentally move your rifle when checking this.

The reticle should remain in the exact position aimed on the target as you slightly move your head position for parallax free operation.

Adjust the focus dial until parallax free. If parallax movement is not completely removed you will have larger than usual grouping dispersion of your shots.

Side Focus dial

Side Focus Dial
Illumination Model

If the focus dial or zoom ring is stiff.

The side focus dial and zoom ring may be stiff to rotate due to lack of use or during cold weather. This is due to a settling of the lubricant on the airtight seals over time, or an increased viscosity in the lubricant at lower temperatures. Gently turning the dial back and forth will restore normal function.

Illuminating the Reticle

The Illumination Module (where fitted) on March scopes produces six levels of light intensity on the reticle for precision shooting in low light or night conditions. Rotating the rubber switch on the focus dial activates the Illumination mode.


Rubber tactical switch

The Illumination Module cycles through 1-2-3-4-5-6 each time the switch is rotated. The 6 setting is the brightest. The 6 setting is the brightest. The rubber switch turns illumination on or off while maintaining the user-selected intensity level. The Illumination Module will automatically switch off after one hour to conserve battery life.

Changing the battery in the Illumination Module

Turn the switch counter-clockwise to expose the battery compartment. Replace the battery with a lithium CR2032 battery. Pay special attention to the battery polarity: the positive (+) side of the battery must face the scope body.

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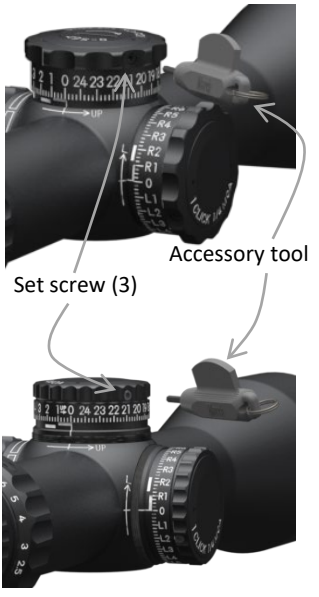
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

1-4x24, 1-8x24, 1-10x24, 1.5-15x42, 2.5-25x42/52, 3-24x42/52, 5-40x56 without Shuriken lock turrets

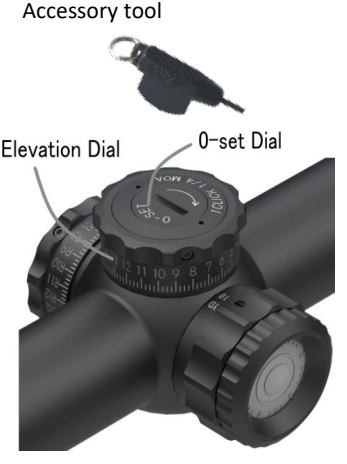
Setting Elevation and Windage to Zero (Zero-In)

Remove the cap covering the elevation or windage dial (if attached). Attach the scope to the gun and fire at the target. Adjust the elevation and windage dials to correct for the amount of bullet hole misalignment relative to the intended position. Since the vertical indicator line on the elevation dial is misaligned with the zero mark on the dial, loosening each of the three screws on the side of the dial by about one turn will allow the dial to rotate freely, enabling you to adjust it to any necessary position. Once adjusted, tighten each of the three screws to complete the zero-in adjustment. Do not over-tighten.



Zero Set Function

If the elevation dial has a 0-Set function, you can easily return to the set zero position using the zero set (the scope's "0-SET" mark). After setting the elevation dial to your desired position, press the dial with your finger to prevent it from rotating, and then use an accessory tool or a coin to turn the "0-SET" dial in the direction of the arrow until it stops. Once you perform the Zero Set, the elevation dial cannot be lowered from this position, so you won't lose the zero position. If you do not need to use the Zero Set function, turn the "0-SET" dial in the opposite direction until it stops at the top.



Setting Elevation and Windage to Zero (Zero-in)

Remove the cap covering the elevation or windage dial (if attached). Mount the scope on the rifle and aim at the target. Adjust the elevation and windage dials to correct for any shift in the bullet impact relative to your aim point. Using an accessory tool, align it with the slot of the dial set screw. Hold the dial firmly to prevent it from moving, then loosen the dial set screw (a coin that fits the slot can also be used). Once the dial is removed, you will see the adjustment axis and the indices for elevation or windage. Be careful not to move the adjustment axis, and align the dial's zero with the index line. Reattach the dial and, while tightening, press firmly to ensure the dial does not spin freely. Do not overtighten this screw.

Zero Set Function

If the elevation dial has a 0-Set function, you can easily return to the set zero position using the zero set (the scope's "0-SET" mark).Using the hex wrench from the included accessory tool, loosen the two 0-SET screws. Then, turn the 0-SET dial in the direction of the 0-SET arrow until it locks onto the elevation dial. Once it reaches your desired position, lightly tighten the two set screws. If you do not need to use the Zero Set function, loosen the stop screw and turn the dial counterclockwise to its lowest position. Lightly tighten the two locking screws.

1-10x24, 1.5-15x42, 4.5-28x52, 5-42x56, 8-80x56 with Shuriken lock turrets

Setting Elevation and Windage to Zero (Zero-in)

Mount the scope on the rifle and shoot at the target. Adjust the elevation and windage dials to correct for the amount the bullet impact has shifted relative to your aim point.
Since the vertical index line on the elevation dial may not align with the dial's zero mark, loosen each of the three screws on the dial by about one rotation to allow the dial to rotate freely and be adjusted to the desired position. Once adjusted, tighten each of the three screws, completing the zeroing process. Do not overtighten.

Zero Set Function

This mechanism allows the dial to stop in the DOWN direction at the desired position. First, unlock the shuriken lock and rotate the elevation dial to set your desired position. After locking the shuriken lock, use a tool to turn the central groove in the direction of the arrow until it stops. This will make the dial to move only to the UP side from the specified position. At this point, the elevation cannot be lowered, ensuring you won't lose your starting point. To release it, use the tool to turn in the opposite direction of the arrow until it stops at the top.

Using the Zoom Ring to change magnification

Turn the zoom ring clockwise to increase your scope's magnification and counter-clockwise to decrease magnification. Use the index point to select the most appropriate setting.

Modifier Disk

30mm MD disk for 42mm objective lens
35mm MD disk for 52mm objective lens
43mm MD disk for 56mm objective lens

The Modifier Disk does not use any lenses. It is a lightweight aluminum disk with a smaller diameter hole in it to reduce the amount of light entering the scope.

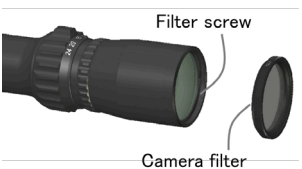
The Modifier Disk screws onto the scope via the threads in front of the objective lens.

Using Modifier Disk with your March scope will:

a; reduce the amount of light entering the scope by as much as 50%(35mmMD disk), 40%(43mm MD disk).
(depending on the brightness of the conditions)

b; increase the depth of focus by up to 50%(35mm MD disk), 40%(43mmMD disk).

If unnecessary brightness is reduced and the depth of focus is increased, a user's ability in reading mirage is enhanced as the sight picture is more defined in difficult conditions.
For light reduction purposes, it is possible to use a camera filter on the eyepiece (Ø = 37mm, P= 0.75).
March recommends against using a filter on the objective lens because this affects target resolution.



March™ **Flip Cap**

a)Slide the correctly sized flip cap onto the eyepiece or objective end of the scope until it meets the inner edge of the cap. If the flip cap is difficult to install due to stiffness, warm it up first (only warm it slightly, do not apply direct heat).

b) After flipping the cap open, push the cap down until it locks into the open position. Make sure to lock the cap open when using the scope.

c) While flip caps protect against rain and dust, they are not waterproof. All March scopes are waterproof.

Parts No.	Item	Model
FC-41	41mm Flip cap for eyepiece	Eyepiece
FC-46	46mmFlip cap for eyepiece	Wide Angle Eyepiece
FC-33	33mm Flip cap for 24mm objective	1x-4x24, 1x-4.5x24, 1x-8x24, 1x-10x24
FC-51	51mm Flip cap for 42mm objective	2.5x-25x42, 3x-24x42, 1.5x-15x42
FC-60	60mm Flip cap for 52mm objective	48x52, 40x-60x52, 2.5x-25x52, 3x-24x52, 10x-60x52, 4.5-28x52, 4x-40x52
FC-64	64mm Flip cap for 56mm objective	5x-40x56, 5x-50x56, 8x-80x56, 10x-60x56, 5x-42x56, 6-60x56

Leather caps
（for eyepeiece and objective)
Included with the 48x52 fixed scope and 40-60x52 EP zoom scope

Fast Lever

This lever is attached to the zoom ring to enable rapid zooming. It will not damage the scope as it disengages in the event of a strong impact.

a) First set the upper part of Fast Lever (with knob) on the scope magnification zoom ring.

Set the wider nails toward left. Set the lever knob right on the scope zoom ring knob. Make sure that the lever fits on the scope zoom ring properly.

b) Next set the lower part of lever on the scope zoom ring.

Set the small hook of the lower part onto the hook of the upper part on the windage side.

Then set the bigger hook of the lower part onto the other side of the upper part until it clicks into place. It will be all set when the lever fits and covers the scope zoom ring completely.

How to remove the lever

Unhook the bigger hook of the lower part and all parts can be removed easily.

Manufacturing a March Scope

Lens Design

March Rifle Scopes (except 1x-4x24, 1x-4.5x24, 1x-8x24 and 1x-10x24) use multi-coated Extra-low Dispersion (ED) lenses to reduce chromatic aberration and to provide high image resolution even at maximum magnification.

ED lenses have a smaller refractive index than typical optical lenses in the blue to red wavelength. This produces superior sharpness and color correction. ED lenses are often used in microscopes, high-end telescopes and semiconductors. ED lenses make it possible to maintain a consistent, high quality image from the lowest to highest magnification settings in your new March scope.

Internal Construction

March Rifle Scopes are made from specially heat-treated, high-grade aluminum, special alloy steel and brass. The scope body is filled with argon gas to create a stable environment. To ensure that March Scopes remain airtight, each scope is fitted with high performance, industrial grade rubber O-rings.

First Focal Plane (FFP) design;

A reticle placed in the first focal plane will keep the same value regardless of the magnification setting selected. This helps to simplify ranging targets and aiming in difficult conditions. The reticle and the target will increase in size as the magnification is increased but any hash marks or divisions in the reticle pattern will retain a constant value.

For example, one Mil-Radian is a consistent measurement across the whole power range.

To determine what measurements are covered by your March's reticle, please refer to the reticle information contained at the end of this manual.

The reticle of the first focal plane is designed specifically for each model. For reticle information and specifications, please refer to the page of each model.

Second Focal Plane (SFP) design;

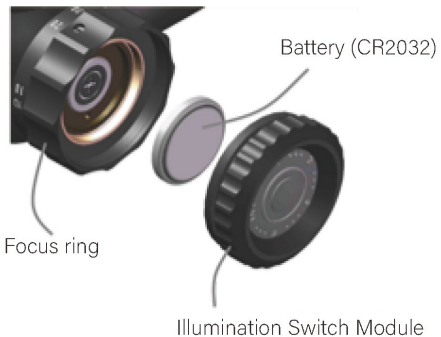
The image formed by the light incident on the objective lens is enlarged or reduced by the zoom device to form an image on the second focal plane, where the reticle is located. Therefore, the size of the reticle placed at the second focal plane does not change when zooming. Even if the size of the target image changes with zooming, the reticle remains the same size (see image below). This means that the reticle value changes in relation to the target image as you zoom. The reticle values are calculated at a specific magnification and are only valid at that specified magnification. For the reticle in the second focal plane, the value of one division is determined by the magnification. For reticle information and specifications, please refer to the Second Focal Plane Reticle page.

(Caution)

For users of illuminated scopes, please make sure to read the following

- The illuminated switch module may come loose while the scope is in use.
- When shooting, make sure that the illuminated switch module is not loose. If the illumination switch module is loose, it may fall.
- If the illumination switch module is loose, turn the illumination switch module clockwise while pinching the focus ring.
- For illuminated models please keep batteries out of reach of children.

Please use battery CR2032 for illuminated models.



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Recommended torque value and instructions for March Scopes by DEON (manufacturer of March Scopes)

March Rings

For scope rings
15(inch pound)/1.7(newton meter) ~ 18(inch pound)/2.03(newton meter)
We especially recommend 17(inch pound)/1.92(newton meter)

For base attachment
We recommend up to 30.9(inch pound)/3.5(newton meter).

March Unimount

For scope rings at the front of the Unimount
15(inch pound)/1.7(newton meter) ~ 18(inch pound)/2.03(newton meter)
We especially recommend 15(inch pound)/1.7(newton meter)

For scope rings at the rear of the Unimount
15(inch pound)/1.7(newton meter) ~ 18(inch pound)/2.03(newton meter)
We especially recommend 17(inch pound)/1.92(newton meter)

For base attachment
We recommend up to 30.9(inch pound)/3.5(newton meter).

Mounting Position

If the rings are close to the curve of the scope,
it will restrict the inner parts from moving.
Rings should be placed in the red zone.

Note:

Torque value is the same for all March Scopes. There may be torque value differences from the ring manufacturer's instruction, but please refer to the above torque values as these allow the inside of the scope to operate properly. Warranty may not cover damage failing to follow the Scope's operating instructions including appropriate mounting. The scope itself does not come with mount rings, which must be purchased separately.

March Fixed Power (48x52mm) High Master
EP Zoom (40x-60x52mm) High Master

High Master optical design

The High Master has Super ED lenses with High refractive glass which offers very high resolution and natural color right to the edge of the image.

Elevation dial

Windage and elevation markings

The windage/elevation dials are divided into 80 divisions, indicated by vertical white lines. Each division is 1/8 MOA. One full rotation of the dial is equal to 10 MOA. There are numbers (0-9) that appear above the division on the dial.

Windage dial

Comparing the dial to the windage/elevation scale below it, you can determine the amount of adjustment needed during sighting in.

Windage/Elevation travel is 60 MOA.

The farther away the elevation and windage adjustments are from the central position, optical resolution will degrade more.

Eyepiece Zoom (40x-60x52mm) High Master

The Eyepiece (EP) Zoom scope incorporates a specially designed device into the March 48x52 BR High Master scope to eliminate any mechanically induced Point of Aim shift during magnification changes.

Zooming System

How to adjust the reticle focus

While holding the eyepiece, rotate it counter-clockwise (from the shooter's perspective) until the eyepiece can move freely. When looking through the scope, aim at either the sky or a sheet of white paper.

DO NOT ATTEMPT TO LOOK AT THE SUN, AS PERMANENT EYE DAMAGE WILL RESULT.

When you rotate the eyepiece, the reticle's clarity will change as the focal length changes. When the reticle is focused for your eyes, turn the locking ring counter-clockwise until it is firm against the eyepiece. Do not attempt to over tighten.

How to adjust the zoom setting

When the roulette is all the way in, the scope is at the maximum power of 60x. To reduce the magnification, hold the eyepiece with your left hand (if you are right handed) and gently use your right hand to pull the roulette to the rear while turning it counter-clockwise. Pull until the index point is aligned with your desired power setting.

If the roulette becomes stiff

The roulette may become stiff to move due to lack of use or cold weather. This is due to a settling of the lubricant on the airtight seals over time, or an increased viscosity in the lubricant at lower temperatures. Setting the roulette between 45x and 55x when storing the scope will allow enough room to move the roulette either way if it ever becomes stiff to rotate.

March **Compact zoom 1x-4x24mm**
100yard Parallax Fixed

D4V24IML (Normal Turrets, Illuminated, MIL)

The 17.8 mm exit pupil at 1x enables the user to concentrate faster on the target.

March 1x-4x24mm is suitable for short and middle range hunting with simple features.

This scope is an excellent choice for short and middle range shooting, including moving targets. It is suitable for the harshest of environments.

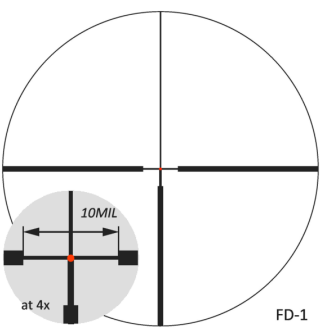
The FD-1 reticle has a bright dot even in daytime on the center of 3-Post with six power setting illumination module.

Normal model
Elevation dial

Normal model
Windage dial

Adjustment
1 Click Adjustment: 0.1 MIL (1cm at 100m)
10 MIL turret revolution (100cm at 100m).
Elevation Travel: 56 MIL
Windage Travel: 56 MIL

Reticle
FD-1 reticle
Center Dot Illuminated Reticle



March **Compact zoom 1x-4.5x24mm**

D4.5V24TM (Tactical Turrets, MOA)

Exit pupil 16mm at 1x

1x-4.5x24mm scope is designed for Service Rifle competition and tactical applications.

This scope should set the standard for AR-friendly 4.5x optics. This compact variable-power scope offers an ideal eye relief for AR-type rifles, along with plenty of windage and elevation travel amounts.

Side focus dial lets you see the target clearly from 10 yards to Infinity at all power settings.

Tactical model
Elevation dial

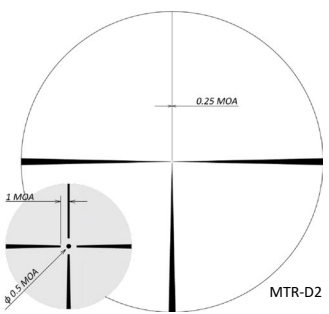
Tactical model
Windage dial

Adjustment

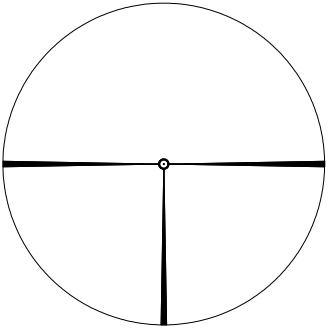
1 Click Adjustment: 1/4 MOA
(0.26in at 100yds)
25 MOA turret revolution
(10.47in at 100yds).
Elevation Travel: 200 MOA
Windage Travel: 200 MOA

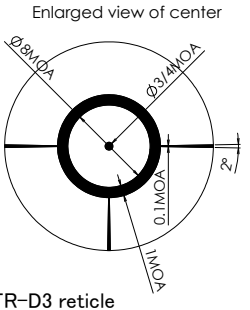
Reticle

MTR-D2 reticle
Center Dot Reticle
1/2 MOA Dot at 4.5x



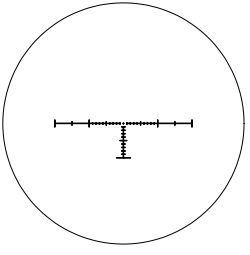
Reticle
MTR-D3 reticle
3/4MOA Dot at 4.5x

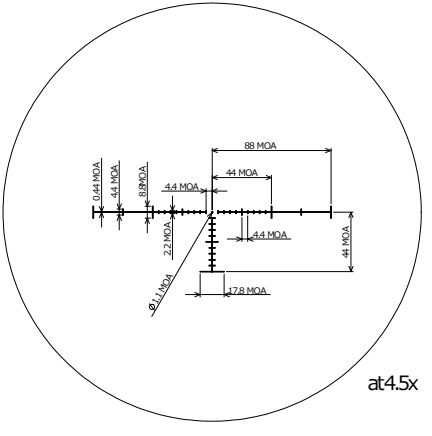




MTR-D3 reticle
At 4.5x

Reticle
MTR-5 reticle
Center Dot Reticle
1.1 MOA Dot at 4.5x





at4.5x

March **Compact zoom (1x-10x24mm, 2.5x-25x42mm)**

Windage and elevation markings

The windage/elevation dials are divided into 100 divisions, indicated by vertical white lines.

MOA Models (D10V24, D10V24M, D10V24T, D10V24TM, D10V24TI, D10V24I, D25V42, D25V42M, D25V42T, D25V42TM, D25V42TI, D25V42I)

Each division is 1/4 MOA.

One full rotation of the dial is equal to 25 MOA. These are printed on the dial to assist the user with changing sight settings.

1-10x24: The windage/elevation adjustment; 200 MOA.

2.5-25x42: The windage/elevation adjustment; 100 MOA.

MIL Models (D10V24TML, D10V24TIML, D10V24IML, D25V42TML, D25V42TIML, D25V42IML)

Each division is 0.1 MIL.

One full rotation of the dial is equal to 10 MIL. These are printed on the dial to assist the user with changing sight settings.

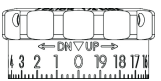
1-10x24: The windage/elevation adjustment; 56 MIL.

2.5-25x42: The windage/elevation adjustment; 28 MIL.

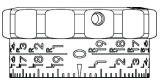
March **Compact zoom (1.5x-15x42mm)**

Windage and elevation markings

The windage/elevation dials are divided into 80 divisions, indicated by vertical white lines.



Elevation dial


Windage dial

MOA Models (D15V42TI)

(Tactical Turrets)

Each division is 1/4 MOA.

One full rotation of the dial is equal to 20 MOA.

These are printed on the dial to assist the user with changing sight settings.

The Elevation adjustment; 80 MOA.

The Windage adjustment; 36 MOA.

The suggested range of elevation adjustment is a total of 80MOA. Each rotation represents 20MOA of elevation adjustment and the elevation turret can be rotated 2 turns (20MOA/rotation) each way from the middle for a total of 40MOA up and 40MOA down.

Please be aware that the elevation turret can be rotated more than 4 rotations (2 up and 2 down), however when the turrets are rotated beyond ±40MOA from the middle position, you may experience some image quality degradation.

In order to indicate that the knob have been turned beyond the 40MOA up or down, the third turn will be indicated by a red line appearing on the elevation turret to show that you have exceeded the usable range. Please note that turning more than 2 rotations from the middle setting up or down, will not damage the riflescope in any way but the image quality may suffer some degradation.

MIL Models (D15V42TIML)

(Tactical Turrets)

Each division is 0.1MIL.

One full rotation of the dial is equal to 10MIL.

These are printed on the dial to assist the user with changing sight settings.

Windage and Elevation markings

The windage/elevation dials are divided into 100 divisions, indicated by vertical white lines.

Elevation dial

Windage dial

Total Elevation adj. range; 24MIL.

Total Windage adj. range; 14MIL.

The total elevation adjustment range is 24MIL; 12MIL up, 12MIL down. Each rotation represents 10MIL of elevation adjustment and the elevation turret can be rotated 1.2 turns (10MIL/rotation) each way from the middle for a total of 12MIL up and 12MIL down.

Please be aware that the elevation turret can be rotated slightly more than 2.4 rotations (1.2 up and 1.2 down). However when the turrets are rotated beyond ±12MIL from the middle position, you may experience some image quality degradation.

MOA Models (D15V42I)

(Normal Turrets)

Each division is 1/4MOA. One full rotation of the dial is equal to 20MOA.

The Elevation adjustment; 80MOA

The Windage adjustment; 36MOA

MIL Models (D15V42IML)

(Normal Turrets)

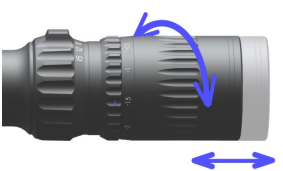
Each division is 0.1MIL. One full rotation of the dial is equal to 10MIL.

The Elevation adjustment; 40MIL

The Windage adjustment; 40MIL

Fast Focus Eyepiece

This Fast Focus Eyepiece is capable of adjusting ±2 diopter in a single turn. Hence this enables prompt adjustment for the Eyepiece.
Fast pitch eyepiece setting comes in handy when the time is the essence.



March 52mm Compact zoom (2.5x-25x52mm)

Windage and elevation markings

The windage/elevation dials are divided into 100 divisions, indicated by vertical white lines.

MOA Models (D25V52T, D25V52TM, D25V52TI, D25V52I)

Each division is 1/4 MOA.

One full rotation of the dial is equal to 25 MOA. These are printed on the dial to assist the user with changing sight settings.

The windage adjustment; 120 MOA (100MOA).

The elevation adjustment; 60 MOA (100MOA).

MIL Models (D25V52TML, D25V52TIML, D25V52IML)

Each division is 0.1 MIL.

One full rotation of the dial is equal to 10 MIL. These are printed on the dial to assist the user with changing sight settings.

The windage adjustment; 34 MIL (28MIL).

The elevation adjustment; 17 MIL (28MIL).

*Marked in red is for Normal model

March Variable Power (10x-60x52mm)

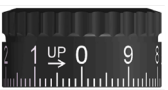
Windage and elevation markings

The windage/elevation dials are divided into 80 divisions, indicated by vertical white lines. The Tactical Model has 40 divisions.

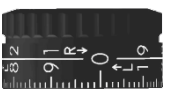
Normal Models (D60V52L, D60V52LM)

Each division is 1/8 MOA.

One full rotation of the dial is equal to 10 MOA. These are printed on the dial to assist the user with changing sight settings.



Normal model
Elevation dial



Normal model
Windage dial

Tactical Models (D60V52T, D60V52TM, D60V52TI)

Each division is 1/4 MOA with two (2) clicks per division (1/8 MOA clicks).

One full rotation of the dial is equal to 10 MOA. These are printed on the dial to assist the user with changing sight settings.

Tactical model
Elevation dial

Tactical model
Windage dial

The elevation adjustment; 60 MOA.

The windage adjustment; 40 MOA.

March-X **Variable Power (10x-60x56mm)**
High Master

High Master optical design

The High Master lens system has Super ED lenses with High refractive glass which offers very high resolution and natural color right to the edge of the image.

Windage and elevation markings

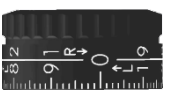
The windage/elevation dials are divided into 80 divisions, indicated by vertical white lines. The Tactical Model has 40 divisions.

Normal Models (D60HV56L, D60HV56LM)

Each division is 1/8 MOA.

One full rotation of the dial is equal to 10 MOA. These are printed on the dial to assist the user with changing sight settings.

Normal model
Elevation dial



Normal model
Windage dial

Tactical Models (D60HV56T, D60HV56TM, D60HV56TI)

Each division is 1/4 MOA with two clicks per division (1/8 MOA clicks).

One full rotation of the dial is equal to 10 MOA. These are printed on the dial to assist the user with changing sight settings.

Tactical model
Elevation dial

Tactical model
Windage dial

The elevation adjustment; 60 MOA.

The windage adjustment; 40 MOA.

March-X

High Magnification Zoom (5x-50x56mm, 8x-80x56mm)

Note: March-X rifle scopes require 34mm scope rings

Windage and elevation markings

The windage/elevation dials are divided into 40 divisions, indicated by vertical white lines.

Tactical model
Elevation dial

Tactical model
Windage dial

Each division is 1/4 MOA with two (2) clicks per division (1/8 MOA clicks).

One full rotation of the dial is equal to 10 MOA. These are printed on the dial to assist the user with changing sight settings.

The elevation adjustment; 60 MOA.

The windage adjustment; 40 MOA.

March-X

8x-80x56mm High Master Majesta

Windage and elevation markings

MOA model

Elevation dial
1 Click : 1/8MOA
1 Turn : 10MOA
Total adj. range : 66MOA

Windage dial
1 Click : 1/8MOA
1 Turn : 10MOA
Total adj. range : 36MOA

MIL model

Elevation dial
1 Click : 0.05MIL
1 Turn : 5MIL
Total adj. range : 19MIL

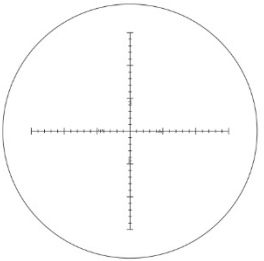
Windage dial
1 Click : 0.05MIL
1 Turn : 5MIL
Total adj. range : 10MIL

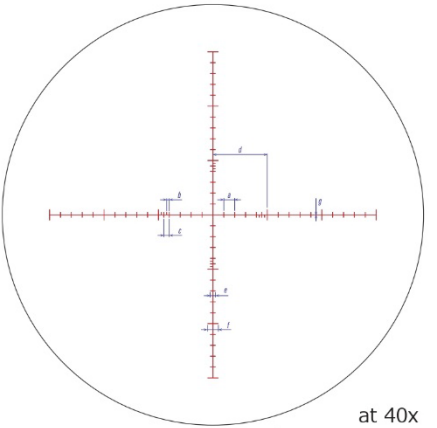
Shuriken lock turrets

"Shuriken" is a star shaped throwing knife used by Ninja. Turning the knob at the top of the elevation and windage dials toward red locks the dial and turning it toward white unlocks it.

Fast Focus Eyepiece

This Fast Focus Eyepiece is capable of adjusting ±2 diopter in a single turn. Hence this enables prompt adjustment for the eyepiece. Fast pitch eyepiece setting comes in handy when the time is the essence. With this 25 degrees wide angle eyepiece you will be able to aim the target / game with a wide view. (Note: The eyepiece diopter adjustment does not need to be readjusted unless there is a change in visual acuity.)

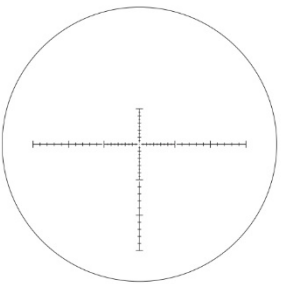


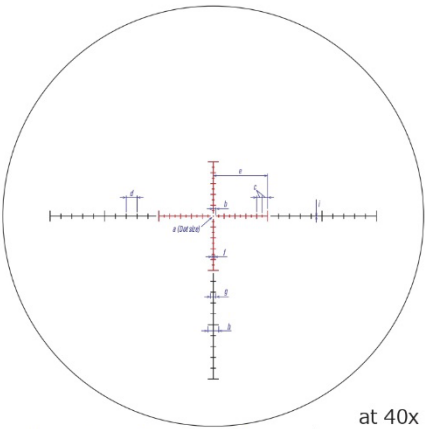


MTR-W0

at 40x

magnif.	unit	a	b	c	d	e	f	g
40x	cm/100m	2.9	0.7	1.5	14.5	1.5	2.9	0.06
	in/100yd	1.05	0.26	0.52	5.24	0.52	1.05	0.02
	moa	1	1/4	1/2	5	0.5	1	0.02

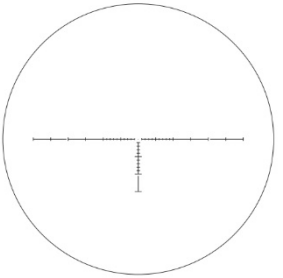


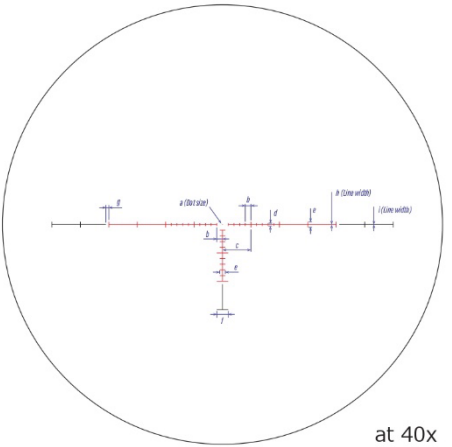


MTR-W1

at 40x

magnif.	unit	a	b	c	d	e	f	g	h	i
40x	cm/100m	0.3	0.7	1.5	2.9	14.5	0.7	1.5	2.9	0.06
	in/100yd	0.10	0.26	0.52	1.05	5.24	0.26	0.52	1.05	0.02
	moa	3/32	0.25	0.5	1	5	0.25	0.5	1	0.02

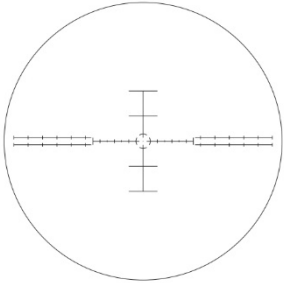


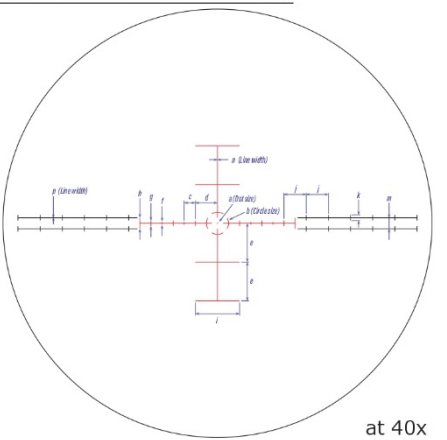


MTR-W2

at 40x

magnif.	unit	a	b	c	d	e	f	g	h	i
40x	cm/100m	0.2	1.5	7.3	0.7	1.5	2.9	0.7	0.06	0.12
	in/100yd	0.07	0.52	2.62	0.26	0.52	1.05	0.26	0.02	0.04
	moa	**1/16**	**0.5**	**2.5**	**0.25**	**0.5**	**1**	**0.25**	**0.02**	**0.04**

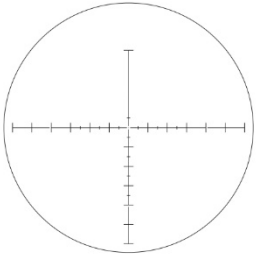


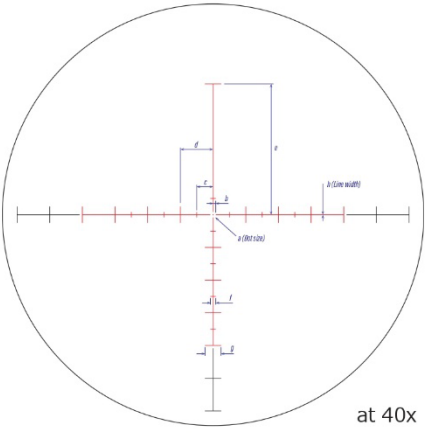


MTR-WFD

at 40x

magnif.	unit	a	b/d/j	c/h/m	e	f	g/k	i	n	p
40x	cm/100m	-	-	-	-	-	-	-	-	-
	in/100yd	0.10	2.09	1.05	3.67	0.26	0.52	4.19	0.04	0.06
	moa	**3/32**	**2**	**1**	**3.5**	**0.25**	**0.5**	**4**	**0.04**	**0.06**

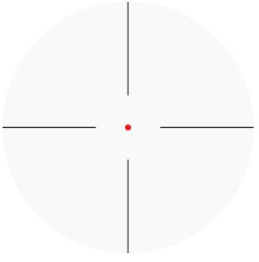




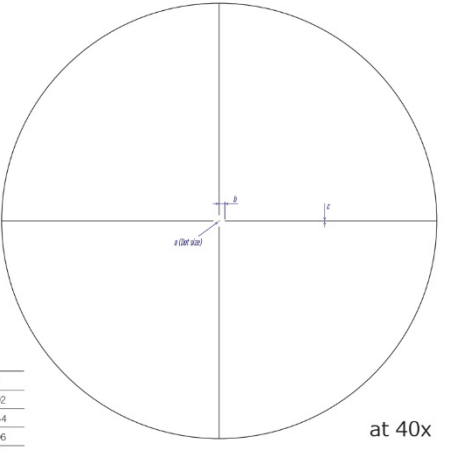
MTR-WFT

at 40x

magnif.	unit	a	b	c	d	e	f	g	h	i
40x	cm/100m	-	-	-	-	-	-	-	-	-
	in/100yd	0.10	0.26	1.57	3.14	12.57	0.52	1.57	0.05	-
	moa	**3/32**	**0.25**	**1.5**	**3**	**12**	**0.5**	**1.5**	**0.05**	**-**



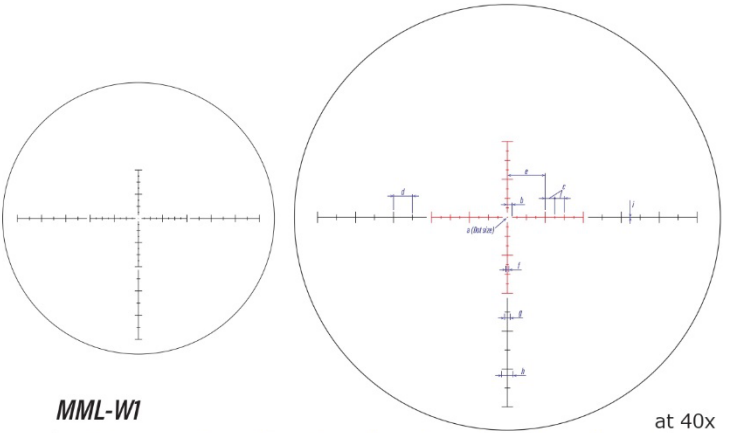
Illuminated floating dot



W-Dot

at 40x

magnif.	unit	a	b	c
40x	in/100yd	0.1	0.52	0.02
	moa	3/32	1/2	1/64
	cm/100m	0.3	1.4	0.06
	mrad	0.03	0.15	0.005

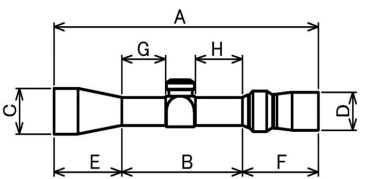


MML-W1

at 40x

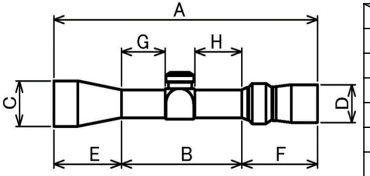
magnif.	*unit*	*a*	*b*	*c*	*d*	*e*	*f*	*g*	*h*	*i*
40x	*cm/100m*	0.3	1.3	2.5	5.0	10.0	0.8	1.5	3.0	0.08
	in/100yd	0.11	0.45	0.90	1.80	3.60	0.27	0.54	1.08	0.03
	mrad	0.03	0.125	0.25	0.5	1	0.07	0.15	0.3	0.008

Fixed power Scope and EP zoom Riflescope				
SPECIFICATIONS				
			48x52	EP-Zoom
Model No.			D48F52	D60EV52
Magnification		Low	48x	40x
		High	-	60x
Effective Lens Diameter			52mm	
Exit Ppil		Low	1.08mm	1.24mm
		High	-	0.89mm
Field of View real	Low	Degree	0.52°	0.49°
		ft/100Yd	2.7ft	2.6ft
		m/100m	0.90m	0.85m
	High	Degree	-	0.44°
		ft/100Yd	-	2.5ft
		m/100m	-	0.87m
Eye Relief		Low	66-81mm	71-89mm
		High	-	59-72mm
1 Click Value			1/8MOA	
1 Turn travel			10MOA	
Elevation Travel			60MOA	
Windage Travel			40MOA	
Focus			Side Focus/Parallax	
Distance			10yd-Infinity	
Finish			Matte Black	
Illumination			-	
Reticle			CH, 1/8MOA Dot, 3/32MOA Dot, 1/16MOA Dot, LR	
Body Tube Diameter			30mm	
Weight			635g (22.4oz)	680g (24oz)



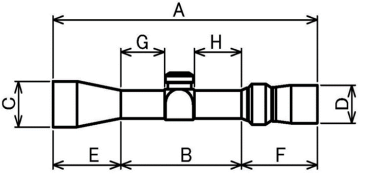
	D48F52	EP-Zoom
A	370mm (14.6inch)	374-397mm
B	177mm (7.0inch)	162mm (6.4inch)
C	60mm (2.4inch)	60mm (2.4inch)
D	41mm (1.6inch)	41mm (1.6inch)
E	126mm (5.0inch)	126mm (5.0inch)
F	67mm (2.6inch)	86-109mm
G	70mm (2.8inch)	70mm (2.8inch)
H	70mm (2.8inch)	55mm (2.2inch)

Compact zoom 1x-4x24mm Riflescope			
SPECIFICATIONS			
Model No.			D4V24IML
Magnification		Low	1x
		High	4x
Effective Lens Diameter			24mm
Exit Pupil		Low	17.8mm
		High	6mm
Field of View real	Degree	Low	19°
		High	4.7°
	ft/Yd	Low	100.4ft/100Yd (33.47m/100m)
		High	24.9ft/100Yd (8.20m/100m)
Eye Relief		Low	64-96mm
		High	61-94mm
1 Click Value			0.1MIL
1 Turn travel			10MIL
Elevation Travel			56MIL
Windage Travel			56MIL
Focus			No
Distance			100Yd
Finish			Matte Black
Illumination			Yes
Reticle			FD-1, FD-2
Body Tube Diameter			30mm
Weight		g	490
		oz	17.3



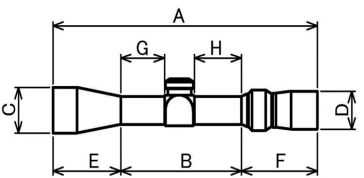
	1x-4x24
A	258mm(10.2inch)
B	129mm(5.1inch)
C	33mm(1.3inch)
D	41mm(1.6inch)
E	35mm(1.4inch)
F	94mm(3.7inch)
G	49mm(1.9inch)
H	42mm(1.7inch)

Compact zoom 1x-4.5x24mm Riflescope			
SPECIFICATIONS			
Model No.			D4.5V24TM
Magnification		Low	1x
		High	4.5x
Effective Lens Diameter			24mm
Exit Pupil		Low	16mm
		High	5.33mm
Field of View real	Degree	Low	19°
		High	4.22°
	ft/Yd	Low	100.4ft/100Yd (33.47m/100m)
		High	22.12ft/100Yd (7.37m/100m)
Eye Relief		Low	73-103mm
		High	73-100mm
1 Click Value			1/4MOA
1 Turn travel			25MOA
Elevation Travel			200MOA
Windage Travel			200MOA
Focus			Side Focus
Distance			10yd-infinity
Finish			Matte Black
Illumination			No
Reticle			MTR-D2, MTR-D3, MTR-5
Body Tube Diameter			30mm
Weight		g	500
		oz	17.7



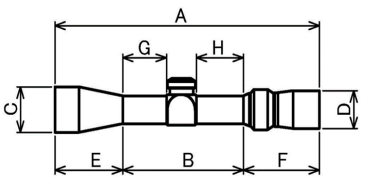
	1x-4.5x24
A	260mm(10.2inch)
B	131mm(5.2inch)
C	33mm(1.3inch)
D	41mm(1.6inch)
E	35mm(1.4inch)
F	94mm(3.7inch)
G	49mm(1.9inch)
H	46mm(1.8inch)

Compact zoom 1x-10x24mm Riflescope										
SPECIFICATIONS										
Model No.		D10V24	D10V24M	D10V24T	D10V24TM	D10V24TI	D10V24I	D10V24IML	D10V24TML	D10V24TIML
Magnification	Low	1x								
	High	10x								
Effective Lens Diameter		24mm								
Exit Pupil	High	2.4mm								
Field of View real	Degree Low	20°								
	Degree High	2°								
	ft/Yd Low	105.8ft/100Yd (35.27m/100m)								
	ft/Yd High	10.5ft/100Yd (3.49m/100m)								
Eye Relief	Low	86-98mm								
	High	86-96mm								
1 Click Value		1/4MOA						0.1MIL		
1 Turn travel		25MOA						10MIL		
Elevation Travel		200MOA						56MIL		
Windage Travel		200MOA						56MIL		
Focus		Side Focus/Parallax								
Distance		10yd-Infinity								
Finish		Matte Black								
Illumination		-				Yes			-	Yes
Reticle		Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5	Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 FD-1	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 FD-1	MML FD-1 FD-2	MML	MML FD-1 FD-2
Body Tube Diameter		30mm								
Weight	g	500	505	505	505	530	530	530	505	5630
	oz	17.7	17.8	17.8	17.8	18.7	18.7	18.7	17.8	18.7



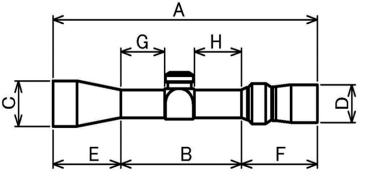
	1x-10x24
A	264mm(10.4inch)
B	135mm(5.3inch)
C	33mm(1.3inch)
D	41mm(1.6inch)
E	35mm(1.4inch)
F	94mm(3.7inch)
G	49mm(1.9inch)
H	48mm(1.9inch)

Compact zoom 1.5x-15x42mm Riflescope						
SPECIFICATIONS						
Model No.			D15V42TI	D15V42I	D15V42IML	D15V42TIML
Magnification	Low		1.5x			
	High		15x			
Effective Lens Diameter			42mm			
Exit Pupil		Low	8.7mm			
		High	2.8mm			
Field of View real	Degree	Low	13.3°			
		High	1.33°			
	ft/Yd	Low	70.2ft/100Yd (23.4m/100m)			
		High	6.9ft/100Yd (2.3m/100m)			
Eye Relief		Low	69-113mm			
		High	74-94mm			
1 Click Value			1/4MOA		0.1MIL	0.1MIL
1 Turn travel			20MOA		10MIL	10MIL
Elevation Travel			80MOA		40MIL	24MIL
Windage Travel			36MOA		40MIL	14MIL
Focus			Side Focus			
Distance			10yd-infinity			
Finish			Matte Black			
Illumination			Yes			
Reticle			MTR-3 MTR-4 MTR-5 FD-1		MML FD-1 FD-2	MML FD-1 FD-2
Body Tube Diameter			30mm			
Weight		g	610g			
		oz	21.6oz			



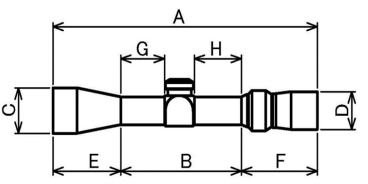
	1.5x-15x42
A	268mm(10.6inch)
B	111mm(4.4inch)
C	51mm(2.0inch)
D	41mm(1.6inch)
E	68mm(2.7inch)
F	89mm(3.5inch)
G	36mm(1.4inch)
H	37mm(1.5inch)

Compact zoom 2.5x-25x42mm Riflescope										
SPECIFICATIONS										
Model No.		D25V42	D25V42M	D25V42T	D25V42TM	D25V42TI	D25V42I	D25V42TMIL	D25V42TIMIL	D25V42IMIL
Magnification	Low	2.5x								
	High	25x								
Effective Lens Diameter		42mm								
Exit Pupil	High	1.68mm								
Field of View real	Degree Low	8°								
	Degree High	0.8°								
	ft/Yd Low	42ft/100Yd (13.99m/100m)								
	ft/Yd High	4.2ft/100Yd (1.40m/100m)								
Eye Relief	Low	85-100mm								
	High	89-96mm								
1 Click Value		1/4MOA						0.1MIL		
1 Turn travel		25MOA						10MIL		
Elevation Travel		100MOA						28MIL		
Windage Travel		100MOA						28MIL		
Focus		Side Focus/Parallax								
Distance		10yd-Infinity								
Finish		Matte Black								
Illumination		-				Yes		-	Yes	
Reticle		Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM FD-1		MML	MML FD-1 FD-2	
Body Tube Diameter		30mm								
Weight	g	590	595	595	595	625		595	625	
	oz	20.9	21	21	21	22		21	22	



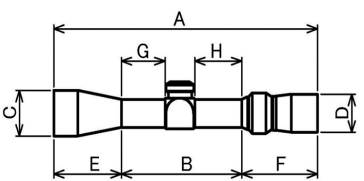
	2.5x-25x42
A	314mm(12.4inch)
B	139mm(5.5inch)
C	51mm(2.0inch)
D	41mm(1.6inch)
E	81mm(3.2inch)
F	94mm(3.7inch)
G	53mm(2.1inch)
H	48mm(1.9inch)

Compact zoom 2.5x-25x52mm Riflescope SPECIFICATIONS								
Model No.			D25V52T	D25V52TM	D25V52TI	D25V52I	D25V52TML	D25V52TIML	D25V52IML
Magnification		Low	2.5x						
		High	25x						
Effective Lens Diameter			52mm						
Exit Pupil		High	2.08mm						
Field of View real	Degree	Low	8°						
		High	0.8°						
	ft/Yd	Low	42ft/100Yd (13.99m/100m)						
		High	4.2ft/100Yd (1.40m/100m)						
Eye Relief		Low	85-100mm						
		High	89-96mm						
1 Click Value			1/4MOA				0.1MIL		
1 Turn travel			25MOA				10MIL		
Elevation Travel			120MOA			100MOA	34MIL		28MIL
Windage Travel			60MOA			100MOA	17MIL		28MIL
Focus			Side Focus/Parallax						
Distance			10yd-Infinity						
Finish			Matte Black						
Illumination			-		Yes		-	Yes	
Reticle			Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM FD-1		MML	MML FD-1 FD-2	
Body Tube Diameter			30mm						
Weight		g	655	655	685		655	685	
		oz	23	23	24.2		23	24.2	



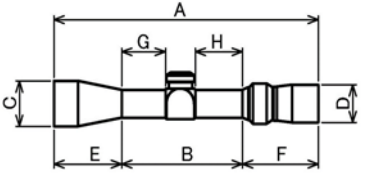
	2.5x-25x52
A	338mm(13.3inch)
B	139mm(5.5inch)
C	60mm(2.4inch)
D	41mm(1.6inch)
E	105mm(4.1inch)
F	94mm(3.7inch)
G	53mm(2.1inch)
H	48mm(1.9inch)

6x magnifications zoom Riflescope SPECIFICATIONS						
		10x-60x52mm				
Model No.		D60V52L	D60V52LM	D60V52T	D60V52TM	D60V52TI
Magnification	Low	10x				
	High	60x				
Effective Lens Dia		52mm				
Exit Pupil	High	0.86mm				
Field of View real	Degree Low	2.0°				
	Degree High	0.333°				
	ft/Yd Low	10.5ft/100Yd (3.49m/100m)				
	ft/Yd High	1.7ft/100Yd (0.58m/100m)				
Eye Relief	Low	88-99mm				
	High	95-101mm				
1 Click Value		1/8MOA				
1 Turn travel		10MOA				
Elevation Travel		60MOA				
Windage Travel		40MOA				
Focus		Side Focus/Parallax				
Distance		10yd-Infinity				
Finish		Matte Black				
Illumination		-				Yes
Reticle		CH 1/8Dot 3/32Dot 1/16Dot Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	CH 1/8Dot 3/32Dot 1/16Dot Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM
Body Tube Diameter		30mm				
Weight	g	685	690	700	705	735
	oz	24.2	24.4	24.7	24.9	26



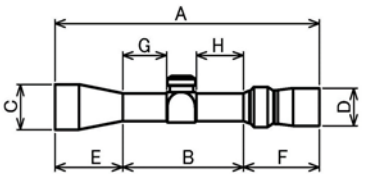
	10x-60x52
A	420mm (16.5inch)
B	173mm (6.8inch)
C	60mm (2.4inch)
D	41mm (1.6inch)
E	142mm (5.6inch)
F	105mm (4.1inch)
G	79mm (3.1inch)
H	57mm (2.2inch)

6x magnifications zoom Riflescope SPECIFICATIONS						
		10x-60x56mm High Master				
Model No.		D60HV56L	D60HV56LM	D60HV56T	D60HV56TM	D60HV56TI
Magnification	Low	10x				
	High	60x				
Effective Lens Dia		56mm				
Exit Pupil	High	0.94mm				
Field of View real	Degree Low	1.9°				
	Degree High	0.32°				
	ft/Yd Low	10.2ft/100Yd (3.40m/100m)				
	ft/Yd High	1.7ft/100Yd (0.57m/100m)				
Eye Relief	Low	80-107mm				
	High	92-102mm				
1 Click Value		1/8MOA				
1 Turn travel		10MOA				
Elevation Travel		60MOA				
Windage Travel		40MOA				
Focus		Side Focus/Parallax				
Distance		10yd-Infinity				
Finish		Matte Black				
Illumination		-				Yes
Reticle		CH 1/8Dot 3/32Dot 1/16Dot Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	CH 1/8Dot 3/32Dot 1/16Dot Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM
Body Tube Diameter		34mm				
Weight	g	905	915	910	915	945
	oz	32.0	32.3	32.1	32.3	33.4



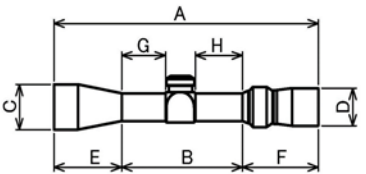
	10x-60x56
A	413mm(16.3inch)
B	180mm(7.1inch)
C	64mm(2.5inch)
D	41mm(1.6inch)
E	134mm(5.3inch)
F	99mm(3.9inch)
G	81mm(3.2inch)
H	63mm(2.5inch)

High magnification Zoom Riflescope SPECIFICATIONS											
		5x-50x56mm			8x-80x56mm						
Model No.		D50V56T	D50V6TM	D50V56TI	D80V56T	D80V56TM	D80V56TI	D80V56ST	D80V56STM	D80V56STI	
Magnification	Low	5x			8x						
	High	50x			80x						
Effective Lens Dia		56mm									
Exit Pupil	High	1.12mm			0.7mm						
Field of View real	Degree Low	4.0°			2.5°						
	Degree High	0.4°			0.25°						
	ft/Yd Low	21ft/100Yd (6.98m/100m)			13.2ft/100Yd (4.36m/100m)						
	ft/Yd High	2.1ft/100Yd(0.70m/100m)			1.3ft/100Yd (0.44m/100m)						
Eye Relief	Low	96-101mm			89-95mm						
	High	92-98mm			83-97mm						
1 Click Value		1/8MOA									
1 Turn travel		10MOA									
Elevation Travel		60MOA									
Windage Travel		40MOA									
Focus		Side focus									
Distance		10yd-Infinity									
Finish		Matte Black						Silver			
Illumination		-		Yes	-		Yes	-		Yes	
Reticle		CH 1/8Dot 3/32Dot 1/16Dot Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	CH 1/8Dot 3/32Dot 1/16Dot Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	CH 1/8Dot 3/32Dot 1/16Dot Di-plex	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	MTR-1 MTR-2 MTR-3 MTR-4 MTR-5 MTR-FT MTR-RTM	
Body Tube Diameter		34mm									
Weight	g	825	830	855	835	845	865	835	845	865	
	oz	29	29.3	30.2	29.5	29.8	30.6	29.5	29.8	30.6	



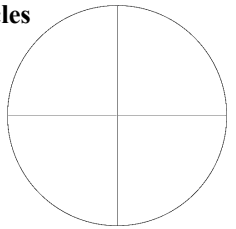
	5x-50x56	8x-80x56
A	400mm(15.7inch)	409mm(16.1inch)
B	166mm(6.5inch)	175mm(6.9inch)
C	64mm(2.5inch)	64mm(2.5inch)
D	41mm(1.6inch)	41mm(1.6inch)
E	144mm(5.7inch)	144mm(5.7inch)
F	90mm(3.5inch)	90mm(3.5inch)
G	79mm(3.1inch)	79mm(3.1inch)
H	51mm(2.0inch)	60mm(2.4inch)

8x-80x56 HM Majesta SPECIFICATIONS				
Model No.			D80HV56WTIX-GR	D80HV56WTIMLX-GR
Magnification		Low	8x	
		High	80x	
Effective Lens Dia			56mm	
Exit Pupil		High	0.7mm	
Field of View real	Degree	Low	3.12°	
		High	0.31°	
	ft/Yd	Low	16.4ft/100Yd (5.45m/100m)	
		High	1.64ft/100Yd (0.54m/100m)	
Eye Relief		Low	76-92mm	
		High	79-92mm	
1 Click Value			1/8MOA	0.05MIL
1 Turn travel			10MOA	5MIL
Elevation Travel			66MOA	19MIL
Windage Travel			36MOA	10MIL
Focus			Side focus	
Distance			10yd-Infinity	
Finish			Dark grey	
Illumination			Yes	
Reticle			W-Dot MTR-W0 MTR-W1 MTR-W2 MTR-WFT MTR-WFD	W-Dot MML-W1
Body Tube Diameter			34mm	
Weight		g	1175g	
		oz	41.45oz	

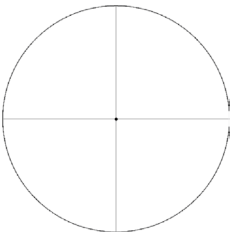


	8x-80x56 HM Majesta
A	420mm(16.54inch)
B	165mm(6.5inch)
C	64mm(2.52inch)
D	46mm(1.81inch)
E	159mm(6.26inch)
F	96mm(3.78inch)
G	67mm(2.64inch)
H	59mm(2.32inch)

Reticles

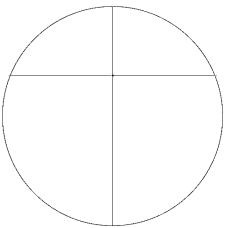


Crosshair reticle



1/16 MOA Dot
3/32 MOA Dot
1/8 MOA Dot

Crosshair with Dot reticle



LR reticle (with 1/16Dot)

Standard mag. of Dot Reticle	
48x52	48x
EP-Zoom	48x
10x-60x52	40x
10x-60x56	40x
2.5x-25x42	25x
5x-50x56	40x
8x-80x56	40x

Magnification Power Changes and Dot Size

Dot pattern reticles (pictured above) do not change size as the magnification changes. But the size of the area on the target covered by the Dot will change.

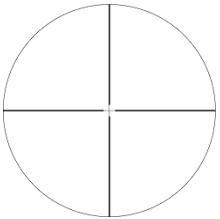
Each March scope has a standard magnification where the apparent size of the Dot will match the reticle fitted to your scope.

For example, if you are using a 5-50x56 March scope fitted with a 1/8 MOA dot reticle at 20 power, you could use the following formula to determine how much of the target is covered by the Dot. Use the table to determine the Standard Magnification of Dot MOA for your model.

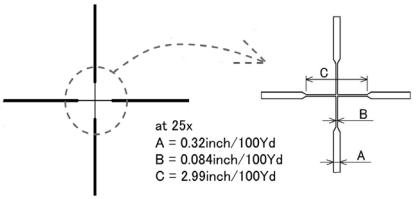
(Nominal Dot MOA) x (Standard Magnification of Dot MOA)/(Current magnification)=(Current Dot MOA)

(1/8 MOA) x (40 / 20) = 1/4MOA

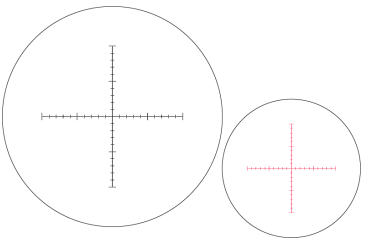
The formula used above can also be used with other reticles that use hash marks or dots to determine target coverage or distance to the target.



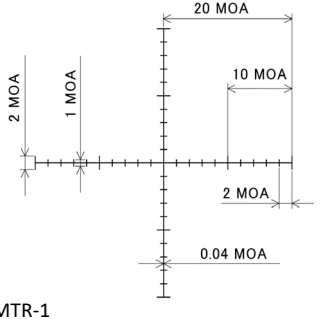
Di-plex reticle



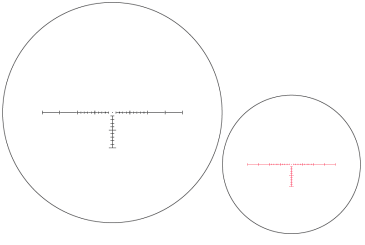
Di-plex reticle size



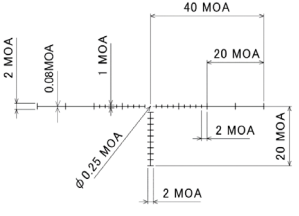
MTR-1



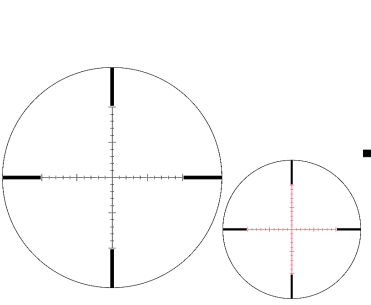
MTR-1
Reticle size at 20x



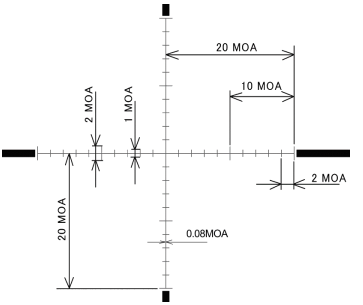
MTR-2



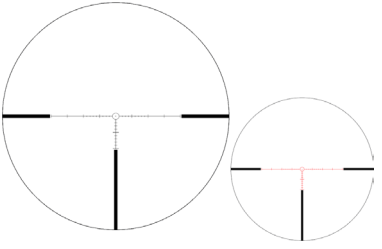
MTR-2
Reticle size at 10x



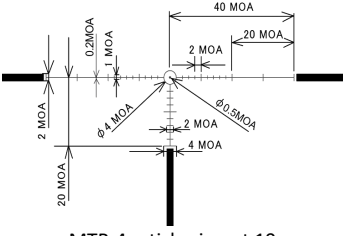
MTR-3



MTR-3 reticle size at 20x

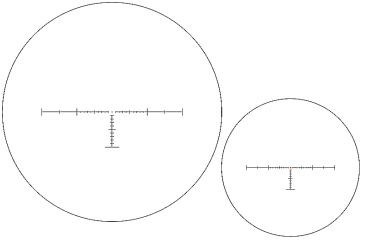


MTR-4

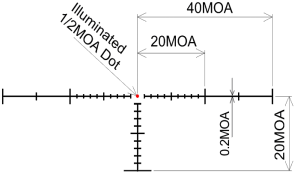


MTR-4 reticle size at 10x

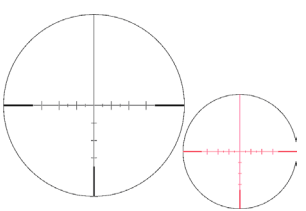
The MTR-3 and MTR-4 reticles are twice as thick as the MTR-1 and MTR-2.



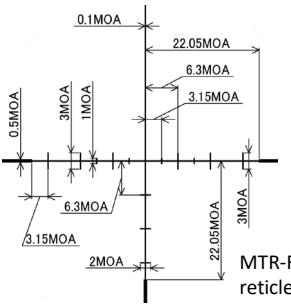
MTR-5



MTR-5 reticle size at 10x



MTR-FT



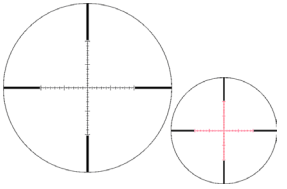
MTR-FT
reticle size at 20x

MTR-1, MTR-3 Value of 1 division

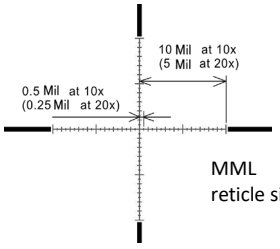
	1div.	100yd	200yd	300yd	600yd	1,000yd
5X	8MOA	8.38 inch	16.75 inch	25.13 inch	50.26 inch	83.76 inch
8X	5MOA	5.24 inch	10.47 inch	15.71 inch	31.41 inch	52.35 inch
10X	4MOA	4.19 inch	8.38 inch	12.56 inch	25.13 inch	41.88 inch
15X	2.67MOA	2.79 inch	5.58 inch	8.38 inch	16.75 inch	27.92 inch
20X	2MOA	2.09 inch	4.19 inch	6.28 inch	12.56 inch	20.94 inch
25X	1.60MOA	1.68 inch	3.35 inch	5.03 inch	10.05 inch	16.75 inch
40X	1MOA	1.05 inch	2.09 inch	3.14 inch	6.28 inch	10.47 inch
50X	0.8MOA	0.84 inch	1.68 inch	2.51 inch	5.03 inch	8.38 inch
60X	0.67MOA	0.70 inch	1.40 inch	2.09 inch	4.19 inch	6.98 inch
80X	0.50MOA	0.52 inch	1.05 inch	1.57 inch	3.14 inch	5.24 inch

MTR-2, MTR-4, MTR-5 Value of 1 division

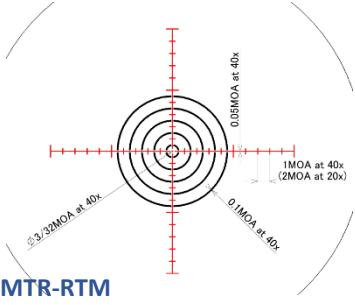
	1div.	100yd	200yd	300yd	600yd	1,000yd
5X	4MOA	4.19 inch	8.38 inch	12.56 inch	25.13 inch	41.88 inch
8X	2.5MOA	2.62 inch	5.24 inch	7.85 inch	15.71 inch	26.18 inch
10X	2MOA	2.09 inch	4.19 inch	6.28 inch	12.56 inch	20.94 inch
15X	1.33MOA	1.40 inch	2.79 inch	4.19 inch	8.38 inch	13.96 inch
20X	1MOA	1.05 inch	2.09 inch	3.14 inch	6.28 inch	10.47 inch
25X	0.8MOA	0.84 inch	1.68 inch	2.51 inch	5.03 inch	8.38 inch
40X	0.5MOA	0.52 inch	1.05 inch	1.57 inch	3.14 inch	5.24 inch
50X	0.4MOA	0.42 inch	0.84 inch	1.26 inch	2.51 inch	4.19 inch
60X	0.33MOA	0.35 inch	0.70 inch	1.05 inch	2.09 inch	3.49 inch
80X	0.25MOA	0.26 inch	0.52 inch	0.79 inch	1.57 inch	2.62 inch

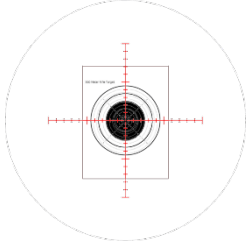


MML



MML
reticle size at 20x

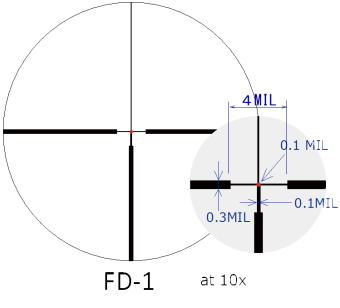




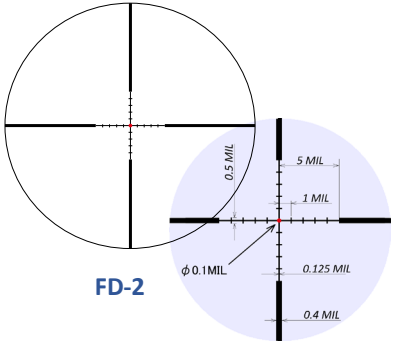
MTR-RTM

Flash-Dot Reticle

The FD-1 & FD-2 reticles have a bright dot even in daytime on the center.



FD-1 at 10x



FD-2

Caring for your March Rifle Scope

March Rifle Scopes are sealed units. However condensation may form on the outside of the lens under extreme conditions. Should this occur, dry with a soft lens cloth immediately and allow the lens to dry completely. Doing this will prevent water spots from developing on the lens surface.

March recommends that only quality lens cleaning material is used on the objective and eyepiece lenses to avoid scratching the glass.

Repair Services

Please retain and follow the Warranty paperwork in case your March Rifle Scope requires repair with the Warranty period. Please inquire of the dealer purchased from, and follow their repair request instruction. When returning your March Rifle Scope for repair, please enclose and provide a full description of the issue you are having on the form provided with your Warranty.

Should repairs be required outside Warranty period, please contact the dealer purchased from or Deon Optical Design Corporation before sending.

March®

Manufacturer

DEON

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