March[®] Rifle Scope

First 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.

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 could occur or potentially unreliable performance. 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 1.7-2.2 Nm 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

With your March scope securely installed on your rifle, it is now time to focus the reticle to your eyes. With your scope at its lowest power setting, rotate the eyepiece counterclockwise (when viewed from a normal shooting position) until the eyepiece moves freely. Looking through scope, aim at plain back ground such as the blue sky or a sheet of white paper.



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

(Zoom 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 changing of visual acuity or user. 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 windage and elevation setting to adjust the scope's reticle to the center of the target.

Fire a shot at the target and adjust the windage and elevation settings to move the reticle to the bullet's point of impact.

Turning the elevation dial towards "UP" moves the Point of Aim (POA) higher, while turning the dial towards "DN" moves the POA lower. Turning the windage dial towards "R" moves the POA to the right, while turning it to "L" moves the POA 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 windage and elevation dials until the point of aim meets the point of impact.



Important note:

Please check where your dials settings are after you have zeroed your rifle to the point of aim. The farther away the adjustments are from the central position (elevation and windage) the more optical resolution will degrade. Also you will not have available full amount of elevation or windage in one direction. So if your scope adjustment is set a long way off center to get the rifle zeroed this will indicate the alignment of the rifle bore is not at the same axis of the scope mount or base position.

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.

The number on the dial is not an absolute reflection of the actual distance as this is affected by the user's eyesight and changing environmental factors.

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.



Side Focus dial



Side Focus Dial Illumination Model

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.

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.

Setting Elevation and Windage Zero

Customizing the windage and elevation zero on your new March scope is easy. Loosen the three set screws using the provided Allen wrench (see picture). Once loose, the dial should turn easily and you can set the dial to any position required. Retighten the set screws being careful not to over tighten them as damage may result.



Normal type Dial



Zero Set Function

March-F and March-FX models have a Zero Set capability. After setting the elevation dial to the desired position,

hold the dial with your fingers and turn the "0-SET" Dial clockwise using a coin or correctly sized screw drive until the bottom stop is reached.

At this point the elevation cannot be lowered so that you will not lose your starting point.

If you do not need to use the Zero Set function, turn the "0-SET" dial counter-clockwise until it reaches the top of its travel.



*Please note that the direction of rotation differs according to the model. Please refer to each product page for details.

For 4.5-28 × 52 and 1.5x-15x42, turn the "0-SET" Dial

counterclockwise using a coin or correctly sized screw drive until the bottom stop is reached.

If you do not need to use the Zero Set function, turn the "0-SET" dial clockwise until it reaches the top of its travel.

Illuminating the Reticle

The Illumination Model (where fitted) on March scopes produces four levels of light intensity on the reticle for precision shooting in low light or night conditions. Pushing the rubber switch on the focusing dial activates the Illumination mode.

The Illumination Model cycles through OFF-1-2-3-4-OFF each time the switch is pressed.

The 4 setting is the brightest. The Illumination Model will automatically switch off after one hour to conserve battery life.



Rubber Tactical Switch

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.



Using the Zoom to change magnification

Turn the zoom ring clock wise 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%(30mmMD disk), 50%(35mmMD disk), 40%(43mm MD disk).

(depending on the brightness of the conditions)

b; increase the depth of focus by up to 50%(30mm MD disk),

50%(35mm MD disk), 40%(43mmMD disk).

If unnecessary brightness is reduced and the focus depth 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 $(\emptyset = 37 \text{mm}, \text{P}= 0.75)$. 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 Flin can for 56mm objective	5x-40x56, 5x-50x56, 8x-80x56, 10x-60x56, 5x-42x56, 6-60x56

Fast Lever

Wider naile:





a)Firstly 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 if the lever can fit 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 windage side hook of the upper part.

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 can fit and cover on the scope zoom ring completely.

How to remove the lever?

Once unhook the bigger hook of the lower part, all parts can be removed easily.

Manufacturing a March 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 off 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.



March-F Compact Zoom 1x-8x24mm 1x-8x24mm Shorty





(100yard fixed focus)

Windage and elevation markings 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 56 Mil





Windage dial



The Length 1x-8x24mm is 258mm 1x-8x24mm Shorty is 212mm





March-F Compact Zoom DR 1x-10x24mm Shorty



The March-F 1x-10x24mm Shorty is the world's lightest and shortest scope with 10 magnification ratio. The length is only 214mm(8.4 inch) and the weight is only 505g(17.8oz).

Windage and elevation markings

1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 56 Mil





P17

Dual Reticle





DR-TR1



Mapch-F 3x-24x42mm 3x-24x52mm

Mil model



Windage and elevation markings:

Mil model Elevation dial



1 Click: 0.1Mil 1 Turn: 10Mil

Mil model Windage dial



MOA model



MOA model Elevation dial



1 Click: 1/4MOA 1 Turn: 25MOA

MOA model Windage dial

















MOA model





FMA-2 reticle is half as thick as FMA-1.

FMA-2 reticle cannot be fitted to illuminated models.



Windage and elevation markings:

Elevation dial

0.05Mil model dial 1 Click: 0.05Mil 1 Turn: 5Mil Total adj. range: 24Mil



1/4MOA model dial 1 Click: 1/4MOA 1 Turn: 25MOA Total adj. range: 66MOA



0.1Mil model dial 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 24Mil



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

Windage dial



0.05Mil model dial 1 Click: 0.05Mil 1 Turn: 5Mil Total adj. range: 12Mil



0.1Mil model dial 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 12Mil



1/4MOA model dial 1 Click: 1/4MOA 1 Turn: 25MOA Total adj. range: 38MOA



1/8MOA model dial 1 Click: 1/8MOA 1 Turn: 10MOA Total adj. range: 38MOA

Reticle:

Mil model [D40V56FML, D40V56FIML] [D40V56FML10, D40V56FIML10]

FML-1 Reticle



MOA model [D40V56FIMA4, D40V56FIMA8]





[D40V56FMA4, D40V56FMA8]



FMA-2 reticle is half as thick as FMA-1.

FMA-2 reticle cannot be fitted to illuminated models.

MarchFX

5x-40x56mm GEN-II





Windage and elevation markings:

Elevation dial



0.05Mil model dial 1 Click: 0.05Mil 1 Turn: 5Mil Total adj. range: 24Mil

Windage dial



0.05Mil model dial 1 Click: 0.05Mil 1 Turn: 5Mil Total adj. range: 12Mil



0.1Mil model dial 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 24Mil



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



0.1Mil model dial 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 12Mil



1/8MOA model dial 1 Click: 1/8MOA 1 Turn: 10MOA Total adj. range: 38MOA

Elevation Dial Locking Mechanism



Dial Unlock

Dial Lock

When setting the Lock Lever on top of the Dial at the red mark, the Dial will be locked.

When setting the Lock Lever on top of the Dial at the blue mark, the Dial will be unlocked.

0-Set

After setting the Elevation Dial at the desired position, screw in the hexagon socket screw on top of the Dial until it stops. Elevation Dial can only be used in the Upward direction than that position.

Focus/Parallax adjustment

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.







Illuminated model

Non-Illuminated model

This means there should be no movement of the reticle relative to the target. To check this, move your head very slightly upwards and downwards 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. 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.



Focus the Reticle

With your March scope securely installed on your rifle, it is now time to focus the reticle to your eyes.

With your scope at its lowest power setting, rotate the eyepiece counter-clockwise (when viewed from a normal shooting position) until the eyepiece moves freely. When looking through the scope, aim at plain back ground such as the blue sky or a sheet of white paper. 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.

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

Six Level Illumination switch By rotating the dial, the shooter can change the brightness from six levels. 1 is the darkest and 6 is the brightest. The rubber switch turns illumination on or off while maintaining the selected brightness level.



Dark-----Bright 1 • 2 • 3 • 4 • 5 • 6

The illumination switch will automatically shut down after one hour of no use . When turning on the switch after being turned off, it will illuminate in the previously selected brightness level. Reticle:

[D40V56FML-G2, D40V56FIML-G2] [D40V56FML10-G2, D40V56FIML10-G2]

FML-1 Reticle



Reticle:

Mil model [D40V56FML-G2, D40V56FIML-G2] [D40V56FML10-G2, D40V56FIML10-G2]

FML-PDKI Reticle


MOA model [D40V56FIMA8-G2]







5

5 10

at 40x

5 - 10





FMA-2 reticle is half as thick as FMA-1.



First Focal Plane Scope with 6.2 Magnification Ratio incorporates High Master optical system combined with a thermal construction. This 4.5-28x52 scope guarantees superb image quality and focus stability across a broad range of temperatures.

25 Degree Wide Angle (Large Eye Box) Eyepiece will enhance FOV throughout the 6.2 magnification range. Fast pitch eyepiece setting comes in handy when the time is the essence.



Windage and elevation markings:

Elevation dial



0.1Mil model dial 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 30Mil

Windage dial with cap



0.1Mil model dial 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 20Mil





Zero Set Function

March-FX 4.5x-28x52 models have a Zero Set capability. After setting the elevation dial to the desired position,

hold the dial with your fingers and turn the "0-SET" Dial counterclockwise using a coin or correctly sized screw drive until the bottom stop is reached.

At this point the elevation cannot be lowered so that you will not lose your starting point.

If you do not need to use the Zero Set function, turn the "0-SET" dial clockwise until it reaches the top of its travel.

For light reduction purposes, it is possible to use a camera filter on the eyepiece $(\emptyset = 43 \text{mm}, \text{P}=0.75)$. March recommends against using a filter on the objective lens because th affects target resolution.



Filter screw







Windage and elevation markings:

Elevation dial



0.1Mil model dial 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 40Mil



1/4MOA model dial 1 Click: 1/4MOA 1 Turn: 25MOA Total adj. range: 130MOA Windage dial



0.1Mil model dial 1 Click: 0.1Mil 1 Turn: 10Mil Total adj. range: 14Mil



1/4MOA model dial 1 Click: 1/4MOA 1 Turn: 25MOA Total adj. range: 48MOA

"NOTE:

This riflescope has an internal adjustment range of 40MIL; 20 up, 20 down (130MOA; 75 up, 75 down). In any riflescope the best image quality is at or near the center of the adjustments. Because of the very wide adjustment range of this riflescope, you may experience some image quality degradation as you near the limits of the adjustment range. This can occur because of the extreme refraction of the incoming light at the edges of the objective lens. This degradation will worsen as the magnification increases.

Therefore, we recommend using an appropriate canted rail if you plan to use this riflescope consistently near the limits of the adjustment range and at higher magnification. It can be utilised to gain additional elevation and to keep the scope optically centred as much as possible.

A 20MOA rail will shift the adjustment range by about 5.7MIL to 25.7MIL up and 14.3MIL down.

A 30MOA rail will shift the adjustment range by about 8.6MIL to 28.6MIL up and 11.4MIL down.

Dial Locking Mechanism



When setting the Lock Lever on top of the Dial at the red mark, the Dial will be locked.

When setting the Lock Lever on top of the Dial at the green mark, the Dial will be unlocked.



0-Set

After setting the Elevation Dial at the desired position, screw in the hexagon socket screw on top of the Dial until it stops. Elevation Dial can only be used in the Upward direction than that position.

Focus Dial Locking Mechanism

By adopting the focus dial locking system, it avoids the focus dial to be turned unexpectedly and being out of focus.

When pushing in the focus dial to the red direction, it will lock as in the right figure.

When pulling it out to the blue direction, it will be unlocked.

Six Level Illumination switch

By rotating the dial, the shooter can change the brightness from six levels. 1 is the darkest and 6 is the brightest.

The rubber switch turns illumination on or off while of maintaining the selected brightness level.

The illumination switch will automatically shut down after one hour of no use as with the four level illumination switch.

When turning on the switch after being turned off, it will illuminate in the previously selected brightness level.











Fast focus & Wide angle Eyepiece

This Fast Focus Eyepiece is capable of adjusting ± 2 diopter in a single turn. Hence this enables prompt adjustment for the Eyepiece. With this 26 Degree Wide Angle Eyepiece, you will be able to aim the target / game with a wide view.



Focus the Reticle

With your March scope securely installed on your rifle, it is now time to focus the reticle to your eyes.

With your scope at its lowest power setting, rotate the eyepiece counter-clockwise (when viewed from a normal shooting position) until the eyepiece moves freely. Looking through scope, aim at plain back ground such as the blue sky or a sheet of white paper.

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.

FML-MT Mil Model (Illuminated)







FMA-TR1 MOA model



FMA-3 MOA model



March FX How to adjust 5-42x56 High Master Wide Angle



By shortening the objective focal length of $5-42 \times 56$, we were able to realize a great amount of elevation travel compared with other scopes which has the same 34mm body tube diameter.

cf. $5-40 \times 56$: 22MIL/76MOA, $5-50 \times 56 \& 10-60 \times 56 \& 8-80 \times 56$: 60MOA (equivalent to about 17.1MIL) This $5-42 \times 56$ has 40MIL (equivalent to about 140MOA) which has the most travel amount among all the 34mm body tube diameter March scopes.

However the focal depth will be shallower due to short objective focal length,

and this will require finer adjustments for the side focus. In case you find the image to blur, please readjust by following. 1) Please set the magnification at 5x.



 Rotate the eyepiece and find the spot where you can see the reticle the best. Please check below to see how to properly adjust the diopter.

https://marchscopes.com/news/4946/



3) When you find the position where you can see the best, rotate the stop ring and stabilize the eyepiece. You only need to set the eyepiece once to suit your diopter.

4) Please set the magnification at 42x.



5) Adjust the side focus and bring the target into focus.

* When you rotate the elevation, focus may shift. In this case, please readjust the side focus turret.



In any riflescope the best image quality is at or near the center of the adjustments.

Because of the very wide adjustment range of this riflescope, you may experience some image quality degradation as you near the limits of the adjustment range.

This can occur because of the extreme refraction of the incoming light at the edges of the objective lens. This degradation will worsen as the magnification increases but if you readjust the focus turret each time, you will be able to see the image clearly. In case you do not wish to adjust each time, we recommend using an appropriate canted rail if you plan to use this riflescope consistently near the limits of the adjustment range and at higher magnification. It can be utilized to gain additional elevation and to keep the scope optically centered as much as possible.

A 20MOA rail will shift the adjustment range by about 5.7MIL to 25.7MIL up and 14.3MIL down. A 30MOA rail will shift the adjustment range by about 8.6MIL to 28.6MIL up and 11.4MIL down.

== Caution ! ==







Dial Lock

Dial Unlock

Elevation and Windage dial locking mechanism

Please set the Lock Lever on top of the dial to either the green or the red mark as far as it will go. If you rotate the dial with the Lock lever set at the red mark or between the green and the red mark, the locking system will be damaged. Please make sure that the lock lever is set at the correct position.



Focus dial locking mechanism

When you lock the focus dial, please push it in as far as it will go. When you unlock the focus dial, please pull it out as far as it will go. If you rotate the focus dial in between or at a locked position, the locking system will be damaged. Please make sure to rotate the focus dial at the correct position.

(Note)

The aim of the Locking mechanism of Elevation, Windage, Side focus dials is to prevent the dials from accidentally rotating while on the move during competitions or hunting. As the lock is not stiff, if you rotate the dials at incorrect positions with strong force it may lead to the damage of the locking system. Also once the dials are in a locked position, please make sure not to rotate them.

If any accident or misuse of the locking Elevation, Windage and Focus dials lead to the damage of the locking system, DEON will repair it for a fee. By any chance the locking system may damage, it will not affect other than the locking mechanism itself. Dials can be used and E/W dials will still track correctly.



1x-8x24 FFP Scope							
			SPECIFICATION	S			
Mo	del No.		D8V24FML	D8V24FIML	D8SV24FIML		
Magnification Low		Low		1x			
Wagiinica	lion	High		8x			
Effective L	ens Diam	leter		24mm			
Exit Pup	pil	High		3mm			
	Degree	Low		19.67°			
Field of View	Degree	High		2.46°			
real	ft/Yd	Low	104ft/	100Yd (34.67m/	100m)		
	ių iu	High	12.9ft	/100Yd (4.30m/1	100m)		
Eye Reli	of	Low	74-102mm				
Lye Kell	ei	High	74-97mm				
1 Clic	k Value		0.1 Mil				
1 Tur	n travel		10 Mil				
Elevati	on Trave	I	56 Mil				
Winda	ge Trave	I	56 Mil				
F	ocus		Side Focu	s/Parallax	Fixed		
Dis	tance		10yd-I	nfinity	100yd		
F	inish		Matte Black				
Illumination		-	Illumination	Illumination			
Re	eticle		FMC-1, FMC-2, FMC-3				
Body Tub	pe Diame	ter	30mm				
W	eight		530g(18.7oz)	560g(19.8oz)	485g(17.1oz)		



\square	1x-8x24	1x-8x24Shorty
А	258mm (10.2inch)	212mm (8.3inch)
В	129mm (5.1inch)	83mm (3.3inch)
С	33mm (1.3inch)	33mm (1.3inch)
D	41mm (1.6inch)	41mm (1.6inch)
Ε	35mm (1.4inch)	35mm (1.4inch)
F	94mm (3.7inch)	94mm (3.7inch)
G	49mm (1.9inch)	3mm (0.11inch)
Н	42mm (1.7inch)	42mm (1.7inch)



			1x-10x24 FFP Scope		
			SPECIFICATIONS		
			D10SV24FIML	D10SV24FIMLN	
Model No.			(Tactical turrets)	(Capped turrets)	
Low		Low	1	x	
Magnification Hig			10	Ох	
Effective L	ens Diam	eter	24r	nm	
Exit Pup	hil	Low	8.6	mm	
Exit i up		High	2.4		
	Degree	Low	19.		
	Degree	High	1.9	2°	
Field of View real	ft/Yd	Low	101.5ft/100Yd	(33.83m/100m)	
	it/iu	High	10.05ft/100Yd	(3.35m/100m)	
Euro Dall	-4	Low	72-104mm		
Eye Reli	er	High	75-10	00mm	
1 Clic	ck Value		0.1 Mil		
1 Tur	rn travel		10 Mil		
Elevati	ion Trave	I	56 Mil		
Winda	ge Trave	l	56	Mil	
F	ocus		Side Focu	s/Parallax	
Dis	tance		10yd-I	nfinity	
Fi	inish		Matte	Black	
Illum	nination		Illumination		
Reticle			DR-1, DR-TR1		
Body Tub	pe Diame	ter	30mm		
W	eight		505g(1	.7.8oz)	

214 (8.4inch)





3x-24x42 FFP Scope							
			SPECIFICATIONS				
				nodel		model	
Model No.			D24V42FML	D24V42FIML	D24V42FMA	D24V42FIMA	
Magnifica	ation	Low		3	х		
Iviaginitea	ation	High		24	1x		
Effective L	ens Diar	neter		42r	nm		
Exit Pu	pil	High		1.75	mm		
		Low		6.6	7°		
Field of	Degree	High		0.8	3°		
View	0.641	Low		35ft/100Yd (11.66m/100m)		
real	ft/Yd	High		4.3ft/100Yd	(1.45m/100m)		
		Low	85-100mm				
Eye Rel	ief	High	89-96mm				
1 Clio	k Value		0.1 Mil 1/4 MOA				
1 Tur	n travel		10 Mil 25 MOA			ΛOA	
Elevati	on Trav	el	28 Mil 100 MOA			MOA	
Winda	ge Trave	el	28	Mil	100 MOA		
	ocus		Side Focus/Parallax				
Dis	tance				nfinity		
F	inish			Matte			
Illum	nination		-	Illumination	-	Illumination	
			FML	FML			
	D 11 1		FML-1	FML-1	FMA-2	FMA-1	
Reticle		FML-T1	FML-T1	FIVIA-Z	FIVIA-1		
			FML-TR1H	FML-TR1H			
Body Tub		eter	30mm				
W	eight		610g (21.5oz)	640g (22.6oz)	610g (21.5oz)	640g (22.6oz)	



	3x-24x42
Α	312mm (12.3inch)
В	139mm (5.5inch)
С	51mm (2.0inch)
D	41mm (1.6inch)
E	81mm (3.2inch)
F	92mm (3.6inch)
G	53mm (2.1inch)
н	48mm (1.9inch)



3x-24x52 FFP Scope							
			SPECIF	ICATIONS			
			MIL r	nodel	MOA	MOA model	
Model No.			D24V52FML	D24V52FIML	D24V52FMA	D24V52FIMA	
Magnifica	otion	Low		3	х		
wagninca	ation	High		24	1x		
Effective L	ens Diai	neter		52r	nm		
Exit Pu	pil	High		2.17	'mm		
Field of	Degree	Low		6.6			
View	Degree	High		0.8	3°		
real	ft/Yd	Low		35ft/100Yd (11.66m/100m)		
icai	Tty Tu	High		4.3ft/100Yd	(1.45m/100m)		
Eve Rel	iof	Low	85-100mm				
Lye Nei		High	89-96mm				
1 Clic	k Value		0.1	Mil	1/4 MOA		
1 Tur	n travel		10 Mil 25 MOA			AOA	
Elevati	on Trav	el	34	Mil	120	MOA	
Winda	ge Trav	el	17 Mil 60 MOA			AOA	
F	ocus		Side Focus/Parallax				
Dis	tance		10yd-Infinity				
F	inish			Matte	Black		
Illum	nination		-	Illumination	-	Illumination	
Re	Reticle		FML FML-1 FML-T1 FML-TR1H	FML FML-1 FML-T1 FML-TR1H	FMA-2	FMA-1	
Body Tub	pe Diam	eter	30mm				
W	eight		665g (23.3oz)	695g (24.3oz)	665g (23.3oz)	695g (24.3oz)	



\searrow	3x-24x52
Α	336mm (13.2inch)
В	139mm (5.5inch)
С	60mm (2.4inch)
D	41mm (1.6inch)
E	105mm (4.1inch)
F	94mm (3.7inch)
G	53mm (2.1inch)
н	48mm (1.9inch)



	4.5x-28x52 FFP Scope						
			SPECIFICATIONS				
			MILn	nodel			
Model No.			D28HV52WFIML D28HV52WFML				
Magnifia	ation	Low	4.	5x			
Magnific	ation	High	28	Зх			
Effective L	ens Dia	meter	52r	nm			
Exit Pu	ıpil	High	1.86	imm			
Field of	Degree	Low	5.5	6°			
View	Degree	High	0.89	2°			
real	ft/Yd	Low	29.1ft/100Yd	(9.7m/100m)			
icai	Tt/Tu	High	4.68ft/100Yd	(1.56m/100m)			
Eve Re	liof	Low	70-93.7mm				
Lye Ke	liei	High	72-90mm				
1 Cli	ck Value		0.1 Mil				
1 Tu	rn travel		10 Mil				
Elevat	ion Trav	el	30 Mil				
Winda	age Trav	el	20 Mil				
F	ocus		Side Focus/Parallax				
Dis	stance		10yd-I	nfinity			
F	inish			Black			
Illun	nination		Illumination	-			
R	eticle		FML-3	FML-PDK			
			FML-TR1 FML-LDK				
Body Tu		eter	34mm				
V	/eight		845g (29.8oz)	815g (28.7oz)			



\backslash	4.5x-28x52
Α	318mm (12.5inch)
В	129mm (5.0inch)
С	60mm (2.4inch)
D	46mm (1.8inch)
E	93mm (3.7inch)
F	96mm (3.8inch)
G	42mm (1.6inch)
н	49mm (1.9inch)



			5x-40x5	5x-40x56 FFP Scope SPECIFICATIONS							
			0.05MIL 0.1MIL			1/4 MOA		1/8 MOA			
Mo	del No.		D40V56FML	D40V56FIML	D40V56FML10	D40V56FIML10	D40V56FMA4	D40V56FIMA4	D40V56FMA8	D40V56FIMA8	
Magnific	ation	Low				5	х				
		High				40	Эх				
Effective	e Lens D	ia.				56r	nm				
Exit P	upil	High				1.4					
	Degree	Low				4°					
Field of View	Degree	High				0.5	.0				
real	ft/Yd	Low		21ft/100Yd (6.98m/100m)							
	10/10	High	2.6ft/100Yd (0.87m/100m)								
Eye Re	lief	Low	96-100mm								
Lychic		High	92-98mm								
1 Clic	k Value		0.05MIL 0.1MIL 1/4 MOA 1/8			1/8	AON				
1 Tur	n travel		51	∕lil	10	MIL	25N	10A	10N	10A	
Elevati	on Trave	el		24	Mil			66N	/IOA		
Winda	ge Trave	el		12	Mil				10A		
F	ocus				Si	de Focu		ax			
Dis	tance		10yd-Infinity								
Fi	inish					Matte	Black				
Illumination			-	Illumi	-	Illumi	-	Illumi	-	Illumi	
-	eticle		FML-1	FML-1	FML-1	FML-1	FMA-2	FMA-1	FMA-2	FMA-1	
Body Tub	pe Diame	eter		34mm							
w	eight		860g (30.3oz)	890g (31.4oz)	860g (30.3oz)	890g (31.4oz)	860g (30.3oz)	890g (31.4oz)	860g (30.3oz)	890g (31.4oz)	



\sim	5x-40x56
Α	387mm (15.2inch)
В	155mm (6.1inch)
С	64mm (2.5inch)
D	41mm (1.6inch)
E	144mm (5.7inch)
F	88mm (3.5inch)
G	66mm (2.6inch)
н	52mm (2.0inch)



			5x-40x56	-G2 FFP Sco	pe SPECIFI	CATIONS				
			0.05	MIL	0.1	MIL	1/8 MOA			
Mod	del No.		D40V56FML-G2	D40V56FIML-G2	D40V56FML10-G2	D40V56FIML10-G2	D40V56FMA8-G2	D40V56FIMA8-G2		
Magnifica	tion	Low			5	x				
wagninca	tion	High			4	Эx				
Effectiv	e Lens D	ia.			56r	nm				
Exit Pup	pil	High			1.4	nm				
Field of View	Degree	Low			4					
real	Degree	High			0.5	0				
	ft/Yd	Low		21ft/100Yd (6.98m/100m)						
	ių iu	High			2.6ft/100Yd (0.87m/100m)				
Eye Reli	of	Low	96-100mm							
Eye Keil	ei	High	92-98mm							
1 Clic	k Value		0.05MIL 0.1MIL 1/8 MOA					AON		
1 Tur	n travel		51	Vil	10	ИIL	10N	10A		
Elevati	on Trave	el		24	Mil		66N	10A		
Winda	ge Trave	2l		12	Mil		38N	10A		
Fo	ocus				Side Focu	s/Parallax				
Dis	tance				10yd-I	nfinity				
Fi	nish				Matte	Black				
Illum	ination		-	Illumi	-	Illumi	-	Illumi		
Reticle			FML-1 FML-PDKI	FML-1 FML-PDKI	FML-1 FML-PDKI	FML-1 FML-PDKI	FMA-2	FMA-1		
Body Tub	e Diam	eter			34r	nm				
w	eight		915g (32.3oz)	950g (33.5oz)	915g (32.3oz)	950g (33.5oz)	915g (32.3oz)	950g (33.5oz)		



/	5x-40x56-G2		
Α	387mm (15.2inch)		
В	155mm (6.1inch)		
С	64mm (2.5inch)		
D	41mm (1.6inch)		
E	144mm (5.7inch)		
F	88mm (3.5inch)		
G	66mm (2.6inch)		
н	52mm (2.0inch)		



March-FX 5x-42x56HM						
SPECIFICATIONS						
			MIL model	MOA model		
Model No.	Model No.			D42HV56FWFIMA		
Magnification -		Low	5x			
		High	42x			
Effective Lens Diameter		561	nm			
Exit Pupil		Low	5.2mm			
		High	1.33mm			
	Degree	Low	5.2°			
Field of View		High	0.62°			
Field of View	ft/Yd	Low	26.19ft/100Yds			
		High	3.25ft/100Yds			
Euro I	Doliof	Low	71-90.4mm			
Eyer	Eye Relief		74.2-90mm			
	1 Click Value		0.1MIL 1/4MOA			
1 Turn travel			10MIL	25MOA		
Elevation Travel 40MIL		130MOA				
Windage Travel		14MIL 48MOA				
	Focus Side Focus/Parall			s/Parallax		
Distance			10m-Infinity			
Finish			Matte Black			
Illumination			Illumination			
Reticle			FML-MT	FMA-MT		
			FML-TR1	FMA-TR1		
			FML-3	FMA-3		
Weight			950g (33.5oz)			



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 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.

Memo



Manufacturer

DEON Optical Design Corporation 9700-3 Miyagawa, Chino-shi, Nagano-ken, 391-0013 Japan E-mail: info@deon.co.jp URL: https://marchscopes.com

March [®]

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