

VISM[®]
A DIVISION OF NcSTAR

AVANCED DUAL OPTIC

PATENT PENDING

OWNER'S MANUAL

ADVANCED DUAL OPTIC (ADO)

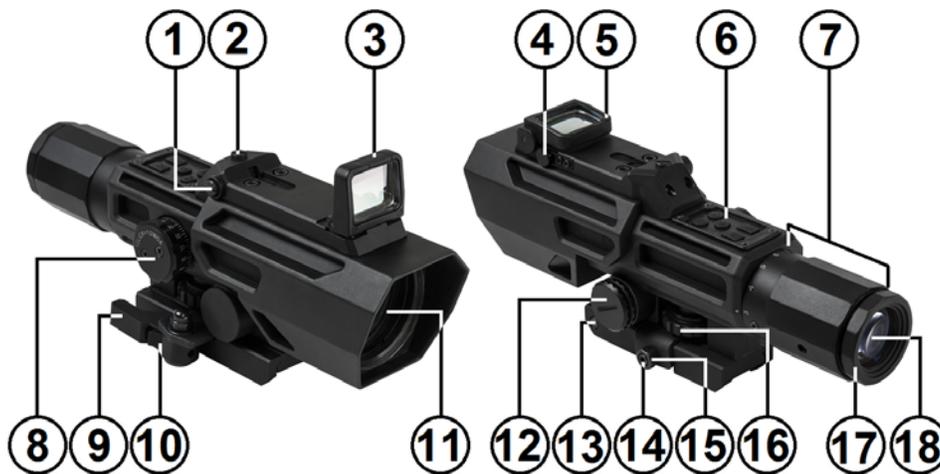
Congratulations on the purchase of your new VISM® Advanced Dual Optic (ADO)! The ADO Optic gives you some very unique features not found in any other scope. The ADO Optic has an integrated Red Dot Reflex Optic on top of the scope. The Red Dot Reflex Optic features a Flip-Up Lens that deploys with a push of a button. When the Lens is deployed the Red Dot Reflex Optic turns itself On automatically. When you fold the Lens down to the closed position, it automatically turns itself Off.

Other Features include: Locking Quick Release Mount, Electronic Control Panel for operating the Illuminated Scope Reticle features/ Red Dot brightness level, large Magnification Power Ring, Quick Focus Ring, CR123A for longer battery life, and a bottom mounted Elevation Adjustment Dial.

Backed by a Lifetime Limited Warranty, your VISM® ADO Optic will provide you with years of reliable service. This Owner's Manual will help you understand all of the features of your new optic.

Please follow all instructions carefully before initial use to experience the best performance.

ADO Optic Features



- | | |
|---|--|
| 1. Red Dot Windage Adjustment Screw (∩L) | 10. Auto-Locking Latch for QR Lever |
| 2. Red Dot Elevation Adjustment Screw (∩UP) | 11. Objective Lens |
| 3. Red Dot Lens Deployed (Red Dot = On) | 12. Battery Cap and Battery Compartment |
| 4. Red Dot Lens Release Button | 13. Recoil Lug |
| 5. Red Dot Lens Closed (Red Dot = Off) | 14. Allen Head Adjustment Screw (Mount rail tension) |
| 6. Electronic Control Panel | 15. Lock Nut |
| 7. Large Magnification Power Ring | 16. Elevation Adjustment Dial (∩UP) |
| 8. Target style Windage Adjustment (∩R) | 17. Quick Focus Ring |
| 9. Quick Release Lever | 18. Ocular Lens |

CAUTION: BE SURE THAT YOUR FIREARM IS UNLOADED AND POINTED IN A SAFE DIRECTION. PRACTICE SAFE FIREARMS HANDLING PROCEDURES AT ALL TIMES.

NOTE: IF YOU ARE UNFAMILIAR WITH THE PROCESS OF MOUNTING A SCOPE, IT MAY BE NECESSARY TO EMPLOY THE SERVICE OF A QUALIFIED GUNSMITH.

Focusing Your Optic

CAUTION: VIEWING THE SUN WITH THIS OPTIC OR ANY OTHER OPTICAL DEVICE CAN CAUSE PERMANENT INJURY TO THE EYE INCLUDING BLINDNESS

Holding the Optic at the proper distance from your eye, in order to achieve a Full Field of View, the reticle should appear sharp and clear. If not, it will be necessary to adjust the focus by turning the Quick Focus Ring.

1. Make quick glances through the eyepiece at a featureless bright surface such as a white wall, or the open sky. Please point a cleared firearm in a Safe Direction at all times.
2. Turning the Quick Focus Ring Counter-Clockwise (↺) will extend the Ocular Lens outward, generally suitable for those who are far sighted. Turning the Quick Focus Ring Clockwise (↻) will draw the Ocular Lens inward, generally suitable for those who are near sighted.
3. Fine tune your adjustments until the reticle appears sharp and clear. Once the Ocular Lens reaches its outer limits of adjustment, be sure not to force it as doing so will cause damage to the eyepiece.



Magnification Adjustment

The ADO Optic has a large Magnification Power Ring located directly in front of the Quick Focus Ring. By turning this ring you can quickly and easily choose the desired magnification level. Lower levels of magnification provide you with a wider Field of View, while higher levels of magnification provide you with a closer view of your target.

There is a White Dot laser etched to the left side of the scope body near the Magnification Numbers on the Power Ring to indicate the current magnification settings of the scope.

Mounting the ADO Optic

The ADO Optics are equipped with a Quick Release Mount with an Auto-Locking Latch. To mount the optic to a Weaver/ Picatinny/ MIL-STD 1913 type rail, move the Auto-Locking Latch located within the Quick Release Lever away from the pivot point and swing the Quick Release Lever to the forward (Open) position. Place the Quick Release Mount onto the optics rail, with the Recoil Lug placed into one of the cross slots on the optics rail. Move the Quick Release Lever rearward (Closed position) to secure/tighten the Quick Release Mount to the optics rail.

On the Left side of the Quick Release Mount is a Lock Nut and Allen Head Adjustment Screw. The Allen Head Adjustment Screw is used to adjust the rail mount tension. To adjust the rail mount tension, you must first loosen the Lock Nut Counter-Clockwise (↺). Once the Lock Nut is loosened or removed, you can then use an Allen wrench to turn the Allen Head Adjustment Screw.

Turn the Allen Head Adjustment Screw Clockwise (↻) to make the rail mount tension Tighter, turn the Allen Head Adjustment Screw Counter-Clockwise (↺) to make the rail mount tension Looser.

To test the rail mount tension, open and close the Quick Release Lever while mounted on the optics rail. Make adjustments to the Allen Head Adjustment Screw until you get the proper rail tension. Once you have the rail mount tension properly adjusted, turn the Lock Nut Clockwise (↻) to Lock the Allen Head Adjustment Screw in place.

Dismounting the ADO Optic

To remove the ADO Optic from a rail, slide the Auto-Locking Latch located within the Quick Release Lever away from the pivot point and swing the Quick Release Lever to the forward (Open) position. You can then remove the optic from the rail.

Elevation and Windage Adjustment Dials

The ADO Optic is equipped with Elevation and Windage Adjustment Dials, which changes your reticles point of aim, relative to your rifles point of impact.

The Scope Reticle Elevation Adjustment Dial is located under the Scope Body between the Scope Body and the Mount Base, and is responsible for the Up and Down movement of the reticle. The orientation for the Clockwise and Counter-Clockwise movement of the dial is referenced from looking from above the Scope Body down towards the Mount Base.

- Turning the Scope Reticle Elevation Adjustment Dial Clockwise (↻) will move the Reticle Up (↑), shifting the bullet point of impact Down (↓).
- Turning the Scope Reticle Elevation Adjustment Dial Counter-Clockwise (↺) will move the Reticle Down (↓), shifting the bullet point of impact Up (↑).

The Scope Reticle Windage Adjustment Dial is located on the right side of the Turret Body, and is responsible for the Left and Right movement of the of the reticle.

- Turning the Scope Reticle Windage Adjustment Dial Clockwise (↻) will move the Reticle Right (⇒), shifting the bullet point of impact Left (⇐).
- Turning the Scope Reticle Windage Adjustment Dial Counter-Clockwise (↺) will move the Reticle Left (⇐), shifting the bullet point of impact Right (⇒).

The Elevation and Windage Adjustment Dials also feature Audible and Tactile Clicks which not only can you see and hear the Click adjustments, but you can feel them as well. Each Click moves the reticle point of aim a ½ MOA* at 100 Yards. See the chart below to see the amount of movement of each click of the Adjustment Dials will move the reticle for your ADO Scope model at various distances.

Elevation/Windage movement per click					
50 yards	100 yards	200 yards	300 yards	400 yards	500 yards
¼ MOA	½ MOA	1 MOA	1½ MOA	2 MOA	2½ MOA

*1 MOA = 1.047 Inches at 100 Yards

Your VISM® Scope is factory set with a Centered Reticle necessary for efficient sighting-in. If you have made any prior adjustments to the Elevation and Windage settings it may be necessary to re-center the reticle. Turn the Elevation Adjustment Dial in either direction until it comes to a complete stop. Next, turn the dial in the opposite direction, counting the number of clicks, until you have reached the limits of the adjustment range. Divide the number of clicks in half, and turn the dial that exact number of clicks back towards the center of the adjustment range. Repeat this procedure for the Windage Adjustment Dial. The reticle will now be centered.

The Red Dot Elevation Adjustment Slotted Screw is located on Top of the Red Dot Body, and is responsible for the Up and Down movement of the Red Dot.

- Turning the Red Dot Elevation Adjustment Slotted Screw Clockwise (↻) will move the Dot Up (↑), shifting the bullet point of impact Down (↓).
- Turning the Red Dot Elevation Adjustment Slotted Screw Counter-Clockwise (↺) will move the Dot Down (↓), shifting the bullet point of impact Up (↑).

The Red Dot Windage Adjustment Slotted Screw is located on the right side of the Red Dot Body, and is responsible for the Left and Right movement of the of the Red Dot.

- Turning the Red Dot Windage Adjustment Screw Clockwise (↻) will move the Dot Left (←), shifting the bullet point of impact Right (→).
- Turning the Red Dot Windage Adjustment Screw Counter-Clockwise (↺) will move the Dot Right (→), shifting the bullet point of impact Left (←).

Zeroing the Scope

After you have completed the installation of your scope, it will be necessary to adjust the scopes point of aim to match the rifles point of impact. This can be accomplished by using several methods, but we recommend the use of a Bore Sighting Device to save time and ammunition. Using a Bore Sighting Device will ensure that your shots land “on paper”. Follow the Manufacturer’s Instructions for the Bore Sighting Device that you choose in order to achieve the best results. You are now ready to finalize your Zero.

CAUTION: ALWAYS BE SURE TO REMOVE THE BORE SIGHTING DEVICE BEFORE SHOOTING LIVE AMMUNITION. FAILURE TO DO SO CAN CAUSE DAMAGE TO YOUR FIREARM OR INJURY TO YOURSELF AND THOSE AROUND YOU.

CAUTION: WHEN OPERATING ANY TYPE OF FIREARM ALWAYS USE PROPER EYE AND EAR PROTECTION. BE SURE TO USE YOUR FIREARM IN AN AREA THAT IS PERMISSIBLE UNDER LOCAL, STATE, AND FEDERAL LAW.

Bore Sighting alone is not sufficient enough to ensure an accurate Zero. You must shoot your firearm at the range in order to confirm a 100% accurate Zero. Follow these steps to fine tune your scope adjustments:

1. Secure your firearm using a steady platform such as a rifle bench rest or sand bags.
2. Fire 3 to 5 carefully aimed shots at a target that is set to your desired Zeroing distance (100 yards is recommended).

3. Observe where the bullet grouping has struck the target and make adjustments to the Elevation and Windage settings as necessary until your point of aim matches your point of impact.
4. Continue with this process until you have achieved your desired level of accuracy.
5. Your scope is now Zeroed to your firearm at the distance that you have chosen.

It is important to remember that many factors can affect the accuracy of your scopes zero including temperature, humidity, elevation, distance, angle, and other conditions. Changing ammunition brands and bullet type/weight can affect accuracy as well.

Electronic Control Panel

The ADO Scope is equipped with a Blue & Red Illuminated Scope Reticle feature. The Illuminated Scope Reticle is used when exterior lighting conditions are less than optimal.

The Electronic Control Panel for the Illuminated Scope Reticle and the Red Dot is located on the top of the scope body. There are 5 brightness levels for the Illuminated Scope Reticle and the Red Dot.

- Holding the Square + Button for about a second will turn the Illuminated Scope Reticle On.
- To adjust the brightness level of the Illuminated Scope Reticle you simply press the Square + Button to increase the brightness level of the reticle or press the Square – Button to decrease the brightness level of the Illuminated Scope Reticle.
- Pressing BOTH Square + Button & Square – Button at the same time, will turn the Illuminated Scope Reticle Off.
- When the Illumination is turned back on, it will remember the last brightness setting used.
- The ADO Scope has a round Button with the letter “C” on it to cycle between the Blue and Red Illuminated Scope Reticle colors.

Adjust the brightness level as needed in accordance with the surrounding conditions. The illumination will increase reticle visibility especially during dawn and dusk. This illuminated scope reticle is not intended for use in total darkness. When the illumination is turned OFF the reticle will appear as a normal Black Reticle.

The Red Dot Reflex Optic features a Flip-Up Lens that deploys with a push of a Button.

- When the Lens is deployed the Red Dot Reflex Optic turns On automatically.
- To adjust the brightness level of the Red Dot you simply press the Round + Button to increase the brightness level of the Red Dot when the Reflex Lens is Deployed.
- Press the Round – Button to decrease the brightness level of the Red Dot when the Reflex Lens is Deployed.
- When you fold the Lens down to the Closed position, the Red Dot automatically turns Off.

Be sure that the Illuminated Scope Reticle is turned Off and the Red Dot Reflex Optic Lens is folded to the down & Closed position when not in use to preserve battery life.

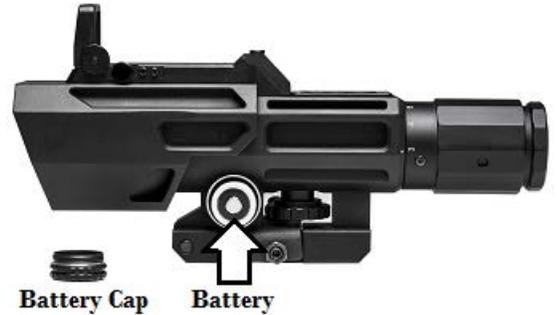
DANGER: AVOID DIRECT EYE EXPOSURE TO LASER BEAM. LASER RADIATION IS EMITTED FROM THE APERTURE.

Battery Installation

On the left side of the Optic Body you will find the Battery Cap with a machined notch in the center. If the Battery Cap is too difficult to turn, you may use a small coin to break it loose. The Battery Cap is removed by turning the Battery Cap Counter-Clockwise (↺).

Remove the old battery and dispose of it properly. Replace it with a New 3-volt CR123A Lithium Battery, with the positive (+) side facing outward. Reinstall the Battery Cap by twisting it Clockwise (↻) until snug.

If after you replace the Battery and the Illuminated Scope Reticle or Red Dot Reflex Optic does not turn on, make sure you have installed the Battery orientation correctly or try another New Battery.



Be sure that the Illuminated Scope Reticle is turned Off and the Red Dot Reflex Optic Lens is folded to the down & closed position when not in use to preserve battery life. If you are going to store your optic for a prolonged period of time it is best to remove the battery to avoid leakage that can damage the optic.

Care and Maintenance

Your VISM® ADO Optic is shock proof, waterproof, and fog proof. However, you should never try to take it apart or clean it internally. The exposed optical lens surfaces will perform their best if they are routinely cleaned with a lens brush or a lens cloth. For a deep cleaning, you can also use high grade camera lens paper and camera lens cleaning solutions. Never use any other type of materials or solvents other than those designed specifically for optical lenses to avoid damaging your optic. Clean the outer portion of the lens cavity first with cotton swabs, clearing as much debris and dust as possible. Then, gently clean the lenses using a circular motion starting in the center and ending at the edges. Do not rub the lenses continually; simply wipe in short circular patterns. Maintain the exterior surfaces of the optic by removing dirt or sand by using a soft brush or a soft, dry cloth. You can also use a silicone treated cloth to restore luster and protect the optic against corrosion. Be careful not to touch any of the lenses with the silicone cloth. It is not necessary to lubricate any part of the optic as all of the moving parts, such as the turrets and the Quick Focus eyepiece, are permanently lubricated. When not in use, always store the optic in a cool dry place with the lens caps on to prevent scratches to the lenses.

IF YOU ARE UNFAMILIAR WITH ANY OF THE PROCEDURES IN THIS MANUAL, ALWAYS SEEK THE HELP OF A QUALIFIED PROFESSIONAL TO AVOID DAMAGE TO YOUR SCOPE AND YOUR FIREARM.

VISM® ADVANCED DUAL OPTIC (ADO) SPECIFICATIONS

Model Number	Body Color	Reticle	Magnification	Objective Lens Diameter	Eye Relief	Field Of View Feet @ 100 yds	Exit Pupil Diameter	Turret Value Per Click	Lens Coating	Length Inches	Weight .oz
VADOBP3942G	Black	P4 SNIPER	3x - 9x	42 mm	2.5	36.8' - 12.0'	14.0 - 4.7mm	½ MOA	Green	7.8	21
VADOTP3942G	Tan										

VISM[®]

A DIVISION OF NcSTAR



**FOR TECHNICAL ASSISTANCE
PLEASE CALL:**

**1-866-NcSTAR-8
(1-866-627-8278)**

www.ncstar.com