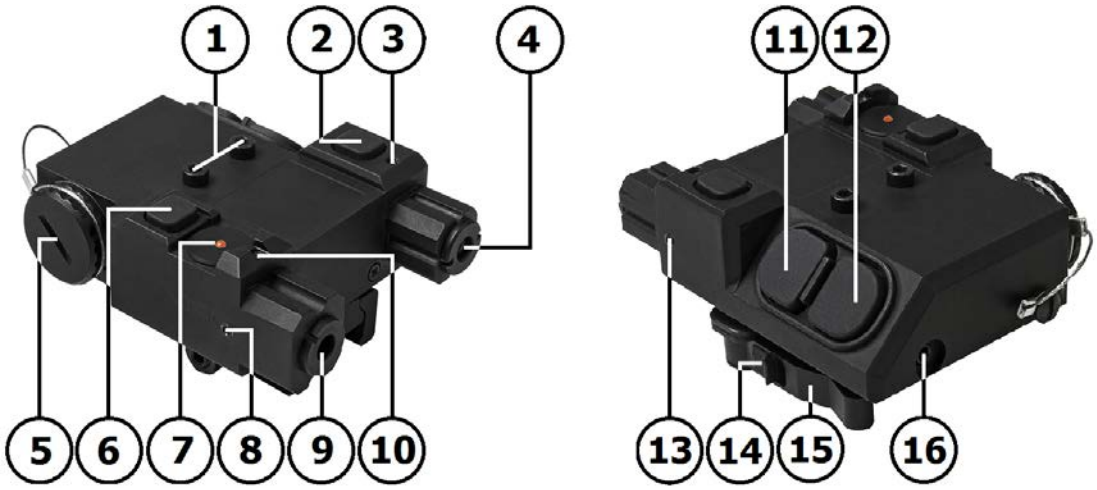
GREEN & IR LASER DESIGNATOR with QUICK RELEASE MOUNT

OWNER'S MANUAL

Green & IR Lasers Designator with Quick Release Mount

Congratulations on the purchase of your new VISM® Green and Infrared Laser Designator! Integrated into the front of the designator are two side pods, the left pod is an adjustable visible green laser and the right pod is an IR laser that is only visible with night vision equipment or cameras designed to see in the infrared spectrum. The Green & IR lasers designator includes many popular features: Picatinny/ MIL-STD1913 locking quick release mount, detachable dual mode remote pressure switch, angled side momentary buttons, NcSTAR®/ VISM® Micro Dot mount base integrated to the top of the designator, and top mounted constant On/Off buttons for the green & IR lasers.

This Owner's Manual will help you understand all of the features of your new green & IR lasers designator. Please read and follow all instructions carefully before initial use to experience the best performance.



1. NcSTAR® DGAB (optional) Micro Dot mounting screws
2. Constant On/Off button for Green laser
3. Green laser Elevation adjustment
4. Green laser aperture
5. Battery cap (CR123A battery)
6. Constant On/Off button for IR laser
7. IR laser powered On indicator red LED light
8. IR laser Windage adjustment
9. IR laser aperture
10. IR laser Elevation adjustment
11. IR laser momentary button
12. Green laser momentary button
13. Green laser Windage adjustment
14. Auto locking latch
15. Quick release lever
16. Remote pressure switch mini jack

Mounting the Designator

The Designator is equipped with a quick release mount with an auto-locking latch. To attach the Designator to a Weaver/ Picatinny/ MIL-STD 1913 type rails, 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 rail, with the recoil lug placed into one of the cross slots on the rail. Move the quick release lever rearward (closed position) to secure/tighten the quick release mount to the rail.

On the right 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 Weaver/ Picatinny type 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 Designator

To remove the Designator 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 Designator from the rail.

Green & IR Laser Controls

There are three methods for activating the lasers:

1. The constant on/off buttons for the lasers are located on top of the Designator, just behind each of the laser apertures.
    a. Press the small square button on the left to turn the green laser on; a second press will turn off the green laser.
    b. Press the small square button on the right to turn the IR laser on; a second press will turn off the IR laser. Since the IR laser isn't visible to the human eye, there is a top mounted red LED light indicator that will turn on whenever the IR laser is turned on.
2. The laser angled momentary buttons are located on the left side of the main body.
    a. Press and hold the forward angled button to turn the IR laser on, releasing pressure on the forward angled button will turn off the IR laser.
    b. Press and hold the rear angled button to turn the green laser on, releasing pressure on the rear angled button will turn off the green laser.
3. The dual mode remote pressure switch will also control the lasers. The remote pressure switch plugs into the mini-jack located on the left rear side of the main body. The remote pressure switch pad has two zones to control the green laser and the IR laser.
    a. Pressing the forward section of the pressure pad will activate the IR laser. When pressure is applied the laser will turn on, releasing pressure will turn off the IR laser off.
    b. Pressing the rear section of the pressure pad will activate the green laser. When pressure is applied the laser will turn on, releasing pressure will turn off the green laser off.

Laser Elevation and Windage Adjustment Screws

The green & IR lasers are each equipped with their own elevation and windage adjustment screws which changes the lasers point of aim, relative to your rifles point of impact.

The elevation adjustment screws are located on top of the designator main body and are responsible for the up and down movement of the lasers. Use the supplied Allen wrench to adjust the laser up and down movements. The green laser elevation adjustment screw is located on the left side and the IR laser elevation adjustment screw is on the right side.

Turning the elevation adjustment screw clockwise (↻) will move the laser up (⇧).

Turning the elevation adjustment screw counter-clockwise (↺) will move the laser down (⇩).

The green laser windage adjustment screw is located on the left side of the main body and the IR laser windage adjustment screw on the right side. The windage screws are responsible for the left and right movement of the lasers. Use the supplied Allen wrench to adjust the lasers left and right movements.

Green laser:
Turning the windage adjustment screw clockwise (↻) will move the green laser left (⇦).
Turning the windage adjustment screw counter-clockwise (↺) will move the green laser right (⇨).

IR Laser:
Turning the windage adjustment screw clockwise (↻) will move the IR laser right (⇨).
Turning the windage adjustment screw counter-clockwise (↺) will move the IR laser left (⇦).

Optional Micro Dot Installation

On top of the Designator are two mounting holes that are compatible with NcSTAR® DGAB Micro Dot reflex optics; the DGAB model can be mounted directly to the top of the Designator, since it does not have a mechanical on/off switch.

NcSTAR® DDAB, DDABG, and DDABL Micro Dot reflex optics will require an Adapter Plate to accommodate the on/off switch that these Micro Dot models have. If you have one of these Micro Dot models and a Micro Dot adapter plate was not included, you may contact NcSTAR® Tech Support and request that an adapter be mailed out to you. NcSTAR® Tech Support phone number is on the last page of this manual.

To install an NcSTAR® Micro Dot optic on top of the Designator, you will have to remove the two screws on top of the Designator plugging up the threaded mounting holes. Then you will have to remove the lower Micro Dot rail mount. You accomplish this by removing the two larger Allen head screws located on the top of the Micro Dot. Separate the Micro Dot from its base mount and carefully place the Micro Dot and the battery on top of the Designator with the optical glass towards the muzzle of the firearm. Place the two Allen head screws through the top holes of the Micro Dot to secure it to the top of the Designator and carefully tighten the screws.

If you have an NcSTAR® DDAB, DDABG, DDABL, and DXDAB Micro Dot reflex optics will require an Adapter Plate. Place the Adapter plate between the Designator and the NcSTAR® Micro Dot. Be careful with the placement of the battery, on/off switch, and the colored wires into their proper location. You may have to use the longer Allen Head screws to compensate for the thickness of the Adapter Plate.

If the Micro Dot optic will not turn on, you may have to remove the Micro Dot to check that the battery was properly installed. The CR2032 battery should have the "+" terminal facing out (down). If the Micro Dot still does not turn on, it may be time to replace the battery with a new CR2032 battery.

Battery Installation

On the right side of the right rear main body you will find the tethered 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 lasers do not turn on, make sure you have installed the battery orientation correctly or try another new battery. Also, check to make sure the battery cap is screwed down completely, you may have to use a coin or screw driver to make sure it is closed properly.

Make sure that the lasers are turned off when not in use to preserve battery life. If you are going to store your designator for a prolonged period of time it is best to remove the battery to avoid leakage that can damage the designator.

SPECIFICATIONS

Green/ IR Laser Designator	**Green Laser**	**Infrared Laser**
Length: 3.2" Width: 2.3" Height: 1.6" Weight: 6.6 oz. Battery Type: CR123A (3 volts Lithium)	Wavelength: 532 nm Maximum Output Power: <5mW Operating Voltage: 3V DC Line Width: <0.1 nm Beam Divergence: <1mrad Beam Diameter: <1 mm Operation Current: <300mA	Wavelength: 850 nm Maximum Output Power: <5mW Operating Voltage: 3V DC Beam Divergence: 0.085 Degree Beam Diameter: 20mmX22mm@15m Operation Current: <40mA
		

FOR TECHNICAL ASSISTANCE

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