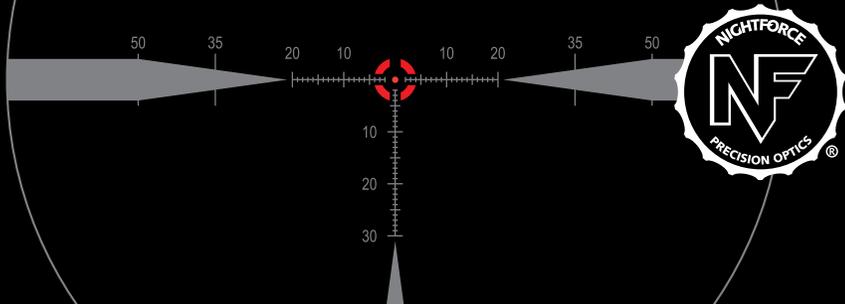
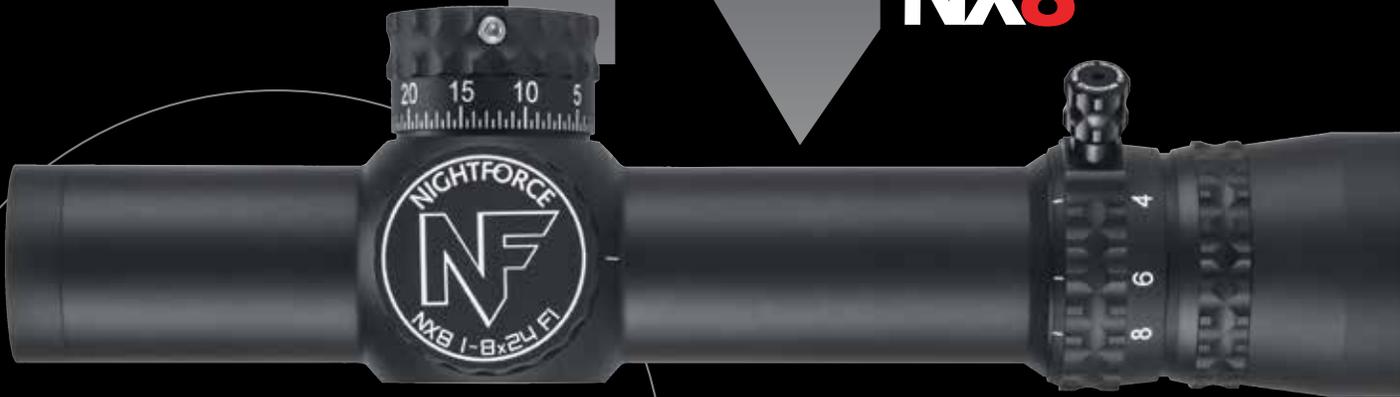


Owner's Manual  
NX8 1-8x24 F1  
with ZeroStop®

**NX8**



**NIGHTFORCE**  
2018 V1

# Contents

---

Nomenclature and features .....	3
Mounting and installation procedures .....	4
Establishing a sight-in zero and bore sighting .....	4
Operation in extreme conditions.....	5
Setting the ZeroStop™ elevation adjustment .....	6
Setting the windage adjustment .....	7
Diopter adjustment.....	8
Power Throw Lever (PTL™) .....	9
Reticle illumination.....	10
Battery replacement .....	10
Riflescope maintenance .....	11
Reticle information .....	12
Specifications.....	14
Warranty .....	15

Record the riflescope serial number below for future reference:

---

**WARNING!**



*Make sure that your rifle is not loaded before proceeding. Reconfirm that the chamber is empty if you stop the procedure then resume later.*

**WARNING!**

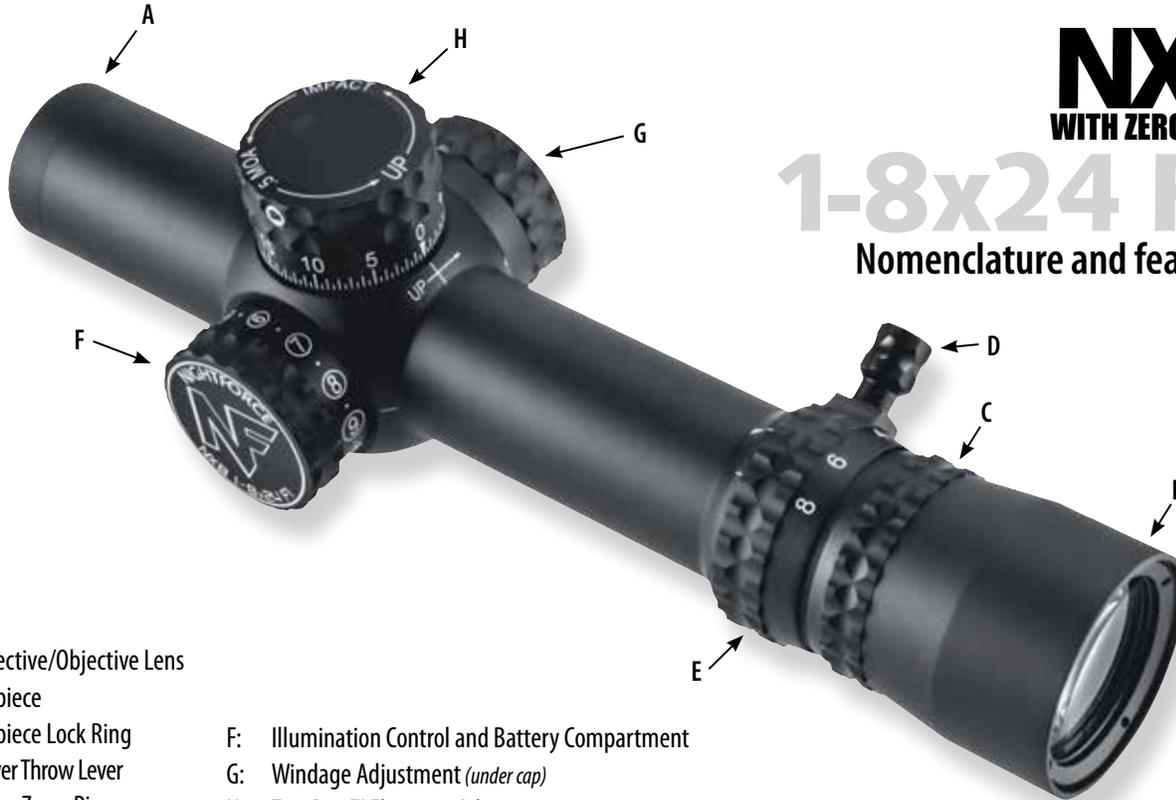


*Nightforce Optics does not authorize the export of these items outside of the United States of America. Riflescopes and accessories listed within, are controlled for export by the U.S. Department of State, under the International Traffic In Arms (ITAR) regulations (22 CFR, Parts 120-130), and/or the Department of Commerce under the Bureau of Industry and Security Export Administration Regulations (15 CFR, Parts 730-774). To export these products outside of the United States of America, you must comply with the regulatory agency's license and documentation requirements.*

**NX8**  
WITH ZEROSTOP®

# 1-8x24 F1

## Nomenclature and features



- A: Objective/Objective Lens
- B: Eyepiece
- C: Eyepiece Lock Ring
- D: Power Throw Lever
- E: Power Zoom Ring
- F: Illumination Control and Battery Compartment
- G: Windage Adjustment (*under cap*)
- H: ZeroStop™ Elevation Adjustment

Product specifications, features, appearances and information subject to change without notice.  
For the latest updates and information regarding our products, visit [www.NightforceOptics.com](http://www.NightforceOptics.com).

## Mounting/Installation Considerations

---

There are many ways to mount and level a riflescope to a rifle system. Below are some considerations when mounting the riflescope to the rifle. Some may vary depending on rifle, mount and riflescope combination.

- If using a removable scope base, ensure base is solidly attached to receiver.
- Install mount(s) and bases per manufacturer's specifications using proper torque.
- Avoid positioning the rings where they will contact the adjustments, objective bell or power zoom ring on the riflescope.
- Apply forward pressure to the mount(s) while tightening in place to keep the cross bolt in firm contact with the forward surface of the cross slot in the base.
- Set the riflescope to the highest magnification for mounting.
- Check for eye/head position when mounting, so that the riflescope is mounted in the best location for the various shooting positions behind the rifle.
- It is recommended to mount the riflescope with as much eye relief as possible on heavy recoiling rifles.
- For precision shooting, ensure the reticle and rifle are plumb to each other. Improper alignment creates sighting/impact errors that become magnified at distance.



### WARNING!

*To avoid permanent eye damage or blindness, do not look directly at the sun or other extremely bright lights through the riflescope.*

### Establishing a Sight-in Zero

An expedient way to save time and ammunition when zeroing a rifle is to bore sight the riflescope.

### To Bore Sight

- 1) Ensure that the rifle is completely unloaded.
- 2) Remove the bolt and place the rifle on a stable rest.
- 3) Looking through the bore from the action/receiver, center your target downrange so that it is floating in the center of the bore (high visibility target of 5-6" at 50-100 yards is best).
- 4) Adjust the elevation and windage adjustments until the reticle is centered on the target while the target is still centered in the bore.

## To Zero

- 5) After bore-sighting, proceed to fire three to five rounds of ammunition at the target.
- 6) Calculate the difference between point-of-aim (POA) and point-of-impact (POI) with the reticle of the riflescope or a measuring device on the target.
- 7) Adjust the elevation and windage adjustment to match the POA and POI.
- 8) Fire three to five rounds of ammunition to confirm zero distance. Repeat adjustments until POA = POI.
- 9) Follow instructions to zero elevation and windage dials.

## Operation in Extreme Conditions

---

The NX8 1-8x24 F1 riflescope has been designed and constructed to withstand heavy use in austere environments.

### Temperature

Extreme heat: No additional procedures required.

Extreme cold: No additional procedures required.

NOTE: Adjustments may have more friction than normal, and battery life may be shortened.

### Conditions

Dust and sand storms: When riflescope is not in use, keep protective caps closed over glass lenses.

Salty air: No additional procedures required.

High altitude: No additional procedures required.

### Immersion

Water, mud, snow: Ensure that adjustments are properly installed and screws are properly torqued. When riflescope is not in use, keep protective caps closed over glass lenses. Clean and dry riflescope as soon as possible after exposure.

## ZeroStop® Elevation Adjustment

The Nightforce® NX8 1-8x24 F1 features an exposed, ZeroStop® elevation adjustment. (Figure 1) The ZeroStop® allows for a rapid return to zero, even after dialing for extended range shots. Once you have established your zero, you can now set the ZeroStop® and the elevation dial to zero.

- 1) **While holding the adjustment dial**, loosen the two set screws on top of the dial with a 5/64" Allen wrench. (Figure 2) The dial should now rotate freely, and you should not feel any clicks. Remove the adjustment cap with an upward twisting motion.
- 2) **Loosen the four set screws** of the upper clutch face but do not remove (Figure 3).
- 3) **Rotate the upper clutch face clockwise** until it stops against the lower clutch face (Figure 4).
- 4) **Tighten the four set screws** in an "X" pattern to 4 inch-pounds.
- 5) **Reinstall the cap and turn the dial** until the "0" on the dial is aligned with the zero-reference mark on the body tube. (Figure 5)
- 6) **While holding the dial**, tighten both set screws to 4 inch-pounds. If no torque driver is available, use a 5/64" Allen wrench by holding the short end and tighten until resistance.



Figure 1



Figure 2

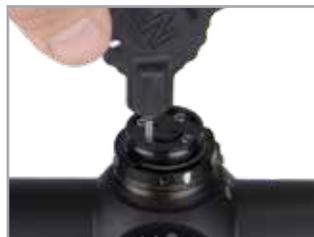


Figure 3



Figure 4



Figure 5

# Windage Adjustment

---

The windage adjustment on the NX8 1-8x24 F1 is included with a protective, screw-on cap from the factory. The windage adjustment is waterproof and can be used without the cap.

Once you have established your zero, you can now reset the windage dial to zero.

- 1) While holding the adjustment dial**, loosen the set screw on top of the dial with a 5/64" Allen wrench. (Figure 6) The dial should now rotate freely, and you should not feel any clicks.
- 2) Rotate the dial** until the "0" on the dial is aligned with the zero-reference mark on the body tube. (Figure 7)
- 3) While holding the dial**, tighten both set screws to 4 inch-pounds. If no torque driver is available, use a 5/64" Allen wrench by holding the short end and tighten until resistance.

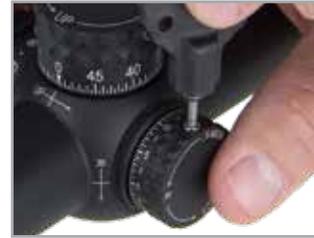


Figure 6



Figure 7

# Dioppter Adjustment

---

The one user-adjustable optical setting on the Nightforce® NX8 1-8x24 F1 riflescope is the reticle/dioppter adjustment. The dioppter adjustment changes reticle focus to match the user's eye prescription. If you wear vision correction when shooting, set this focus while wearing your corrective lenses. Record the number of turns you made on the eyepiece from the original factory setting so you can return to it if needed.

**NOTE:** Nightforce® riflescopes are factory set for 20/20 vision (-3/4 diopter), so this adjustment may not be necessary. If the reticle fades in and out of focus, or if the user experiences eye strain with extended shooting sessions, it is an indicator that the dioppter may be out of focus.

- 1) **Adjust to the highest** magnification setting.
- 2) **Grasp the eyepiece with one hand** and the locking ring with the other and rotate the eyepiece counter-clockwise, loosening it from the lock-ring.
- 3) **Look through the riflescope** at a light-colored background such as a white wall or overcast sky to eliminate background clutter that will distract your eye. Determine if the reticle is clear and in focus at the instant you look through the eyepiece and see the reticle (a snap sight picture).

**NOTE:** Staring at the reticle for more than a second will cause your eye to focus on the reticle, falsely indicating proper reticle focus. Look away for a few seconds and then retry repeatedly for best results.

- 4) **If the reticle is not crisp and well defined**, move the eyepiece and re-check for focus. Best results are obtained by turning the eyepiece inward until the reticle is slightly blurred, then moving it outward until a sharp focus is obtained.
- 5) **Once the desired reticle focus is achieved**, turn the lock ring clockwise while holding the eyepiece in place. Tighten the lock ring firmly so that the eyepiece, lock ring and power zoom ring move as a single unit.

## Diopter Adjustment Nomenclature



## Power Throw Lever

The Nightforce® NX8 1-8x24 F1 is equipped with an optional, integrated Power Throw Lever (PTL™). This feature is removable at the user's preference. The PTL is designed to allow easy and rapid magnification changes; as well as provide a visual reference to the current magnification setting. To install the PTL™, first remove the flush black insert located in the power zoom ring with a 5/64" hex key (Figure 8). Install the PTL by screwing it into the threaded hole in a clockwise direction. Tighten to snug with the 5/64" hex key, but do not overtighten to avoid stripping the threads or hex key slot. (Figure 9)



Figure 8



Figure 9

# Reticle Illumination

The NX8 1-8x24 F1 riflescope is equipped with daylight visible, externally adjustable illumination. To turn on the illuminated reticle, simply rotate the external dial to your preferred intensity setting. There are "OFF" settings between each intensity adjustment, so that a user can turn off illumination at their preferred setting.

Daylight illumination of the reticle is available at the higher intensity settings. Ambient light and environmental conditions will dictate the appropriate setting for desired visibility. Too much intensity in low-light environments can produce a flare effect on the reticle.

## Battery Replacement

The battery is located underneath the adjustment cover, which is removed by turning the illumination adjustment cover counter-clockwise until the cover comes off. (Figure 10)

Replace depleted batteries with an Energizer CR2032 or equivalent. Install the battery with the positive (+) side up. (Figure 11) Turn off the illumination when not in use to prevent depletion of the battery. A fresh battery will last approximately 29 hours at the brightest illumination setting.



Figure 10



Figure 11

# Riflescope Maintenance

---

With proper care, a Nightforce® riflescope will provide many years of dependable service. Be sure to use lens covers whenever you are not using your riflescope.

## Cleaning Riflescope Exterior

Clean the riflescope body with a clean cloth, lightly moistened, with clean water or rubbing alcohol. Do not use strong solvents or gun cleaner as they can destroy lens coatings. While cleaning your rifle, be sure to protect your riflescope's lenses by installing the covers that came with the riflescope.

In the event of submersion in mud, sand, dirt or salt water; irrigate the outside of the riflescope with clean water to remove encrusted material and salt. Wipe the outside metal surfaces dry with a soft cloth.

## Cleaning Riflescope Lenses

We recommend using a Nightforce® cleaning kit for lens cleaning. The kit contains an ultrasoft brush, microfiber cloth and cleaning solution.

With the lens facing down, to allow debris to fall away, remove loose dirt and dust with lens brush. If there is grit stuck to the lens, irrigate the surface with distilled water and rub off with cleaning swabs.

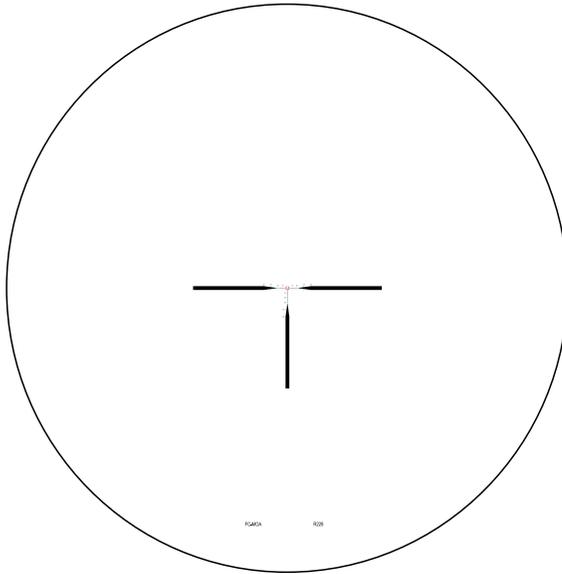
Using a soft, clean, lint-free cotton swab or lens cleaning cloth, clean the lens starting in the center and working to the outside in a circular motion. Make only one pass to the edge where the glass meets the metal. Once you reach the edge of the lens do not re-use that swab as it will contain abrasive grit that can scratch the surface. Start over in the center with a new swab and repeat the process until the glass is clean. Use a very small amount of cleaning solution if necessary and to prevent streaks.

## Long Term Storage

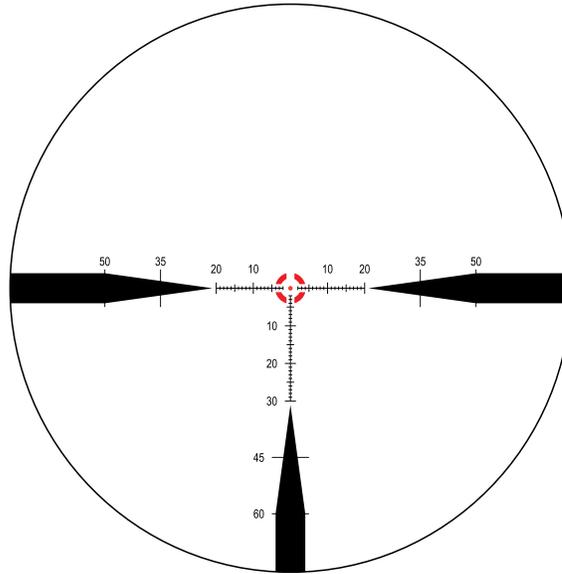
If the riflescope will not be used for an extended period, remove the battery and store separately. Keep the riflescope in a cool, dry, dust-free location with lens covers closed.

**For a list of frequently asked questions, video instruction, information on service and on Nightforce accessories, visit [www.NightforceOptics.com](http://www.NightforceOptics.com).**

# Reticle Information



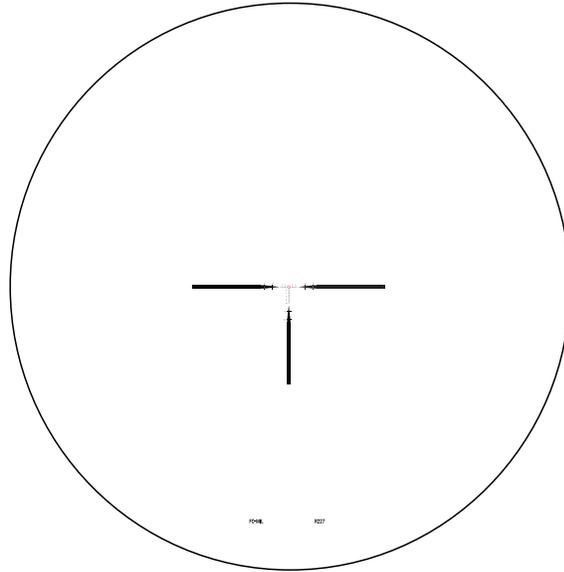
**FC-MOA** shown at 1x magnification



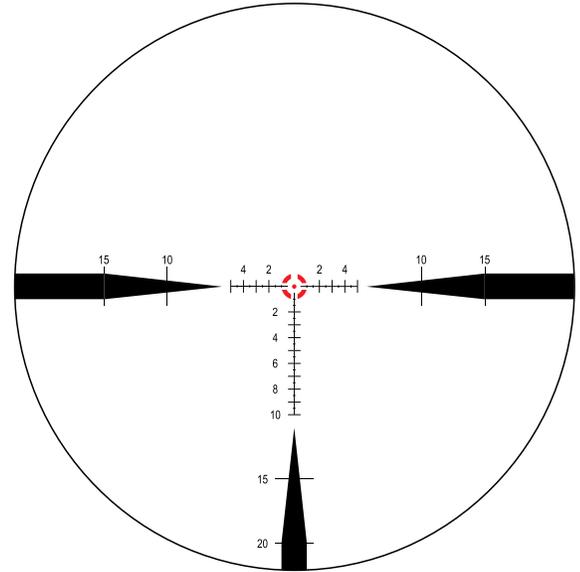
**FC-MOA** shown at 8x magnification

Created and optimized for low-power variable riflescopes. As first focal plane reticles, elevation and windage markings are valid at every magnification setting, providing precise hold and reference points. At low power, the bright daylight center dot and segmented circle are visible under the harshest light, allowing fast, accurate shots.

At higher magnification, the clean 1 Minute of Angle (MOA) markings of the FC-MOA and .5 and 1 Mil-Radian markings of the FC-MIL provide easy hold points for moving targets, wind and elevation hold-offs or for reference. Bold, pointed lines at 3, 6 and 9 o'clock help draw the eye to the center at any magnification.



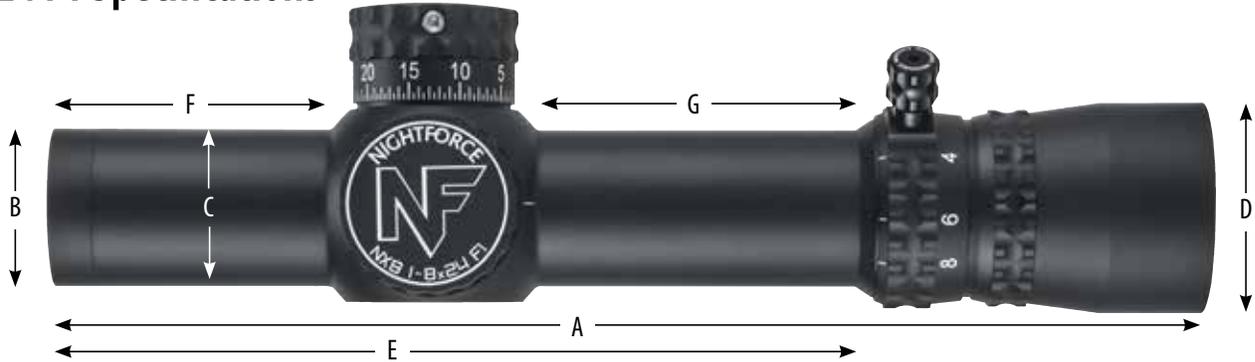
**FC-MIL** shown at 1x magnification



**FC-MIL** shown at 8x magnification

**NX8**  
WITH ZEROSTOP®

## 1-8 x 24 F1 Specifications



	(Inches/millimeters)
A. Overall length	8.75/222
B. Objective outer diameter	30 mm
C. Tube diameter	1.18/30
D. Eyepiece outer diameter	40 mm
E. Mounting length	5.67/144
F. Front mounting length	1.66/42
G. Rear mounting length	2.36/60

Exit pupil diameter	1x: 7.9 mm 8x: 3 mm
Field of view @ 100yd/m	1x: 106 ft/32.3 m 8x: 13.2 ft/4.0 m
Eye relief	95 mm/3.75"
Parallax adjustment	Fixed at 125 m
Weight (oz/gr)	17/482
Internal adjustment	e: 100 MOA/30 Mil w: 100 MOA/30 Mil
Click value	.5 MOA/.2 Mil
Focal plane	First



# NIGHTFORCE®

## Limited Lifetime Warranty

We are proud to back the Nightforce ATACR™, NX8, B.E.A.S.T.™, Benchrest, Competition™, NXS™ and SHV™ families of riflescopes with a transferable Limited Lifetime Warranty. The warranty covers mechanical defects in materials and workmanship in the optical and mechanical components of Nightforce riflescopes. In the event of a defect in materials or workmanship that is covered by this warranty, we will either repair the riflescope or replace it at no charge, with a comparable product at our discretion.

Exclusions to this warranty include intentional or accidental damage, abuse, misuse, unauthorized modifications or repairs, and improper mounting. This warranty does not cover any consequential or incidental damages resulting from the inability to use the riflescope. Any serial number obliteration or alteration on the product will void the warranty. SHV™ models maintain waterproof integrity with their protective caps installed.

To ensure warranty coverage, please register online or fill out completely and mail in the provided warranty card found in the back of the owner's manual, along with a copy of the sales receipt. The warranty begins on the date the product was purchased by the original owner. The optical and mechanical components are covered without time limitations. The riflescope's electronic components are covered for a period of three years.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not

apply to you. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

**Before sending a riflescope in for service, please call Nightforce Optics, Inc. at the number below, to determine if the problem can be resolved without sending us the product. All returns must be accompanied by a Return Merchandise Authorization (RMA) number. Failure to do so can result in lost merchandise and/or severely delayed service time.**

- Remove any mounting rings or accessories other than dust covers and the original sunshade.
- Record and keep on hand the serial number.
- Include with the riflescope a detailed description of the defect(s), the RMA number, your name, phone number and the address you wish the riflescope returned to.
- Place the boxed or protectively wrapped riflescope in a well-padded outer box insured for replacement value and send it shipping prepaid, to the appropriate address below. **Write the RMA number on the outside of the package.**

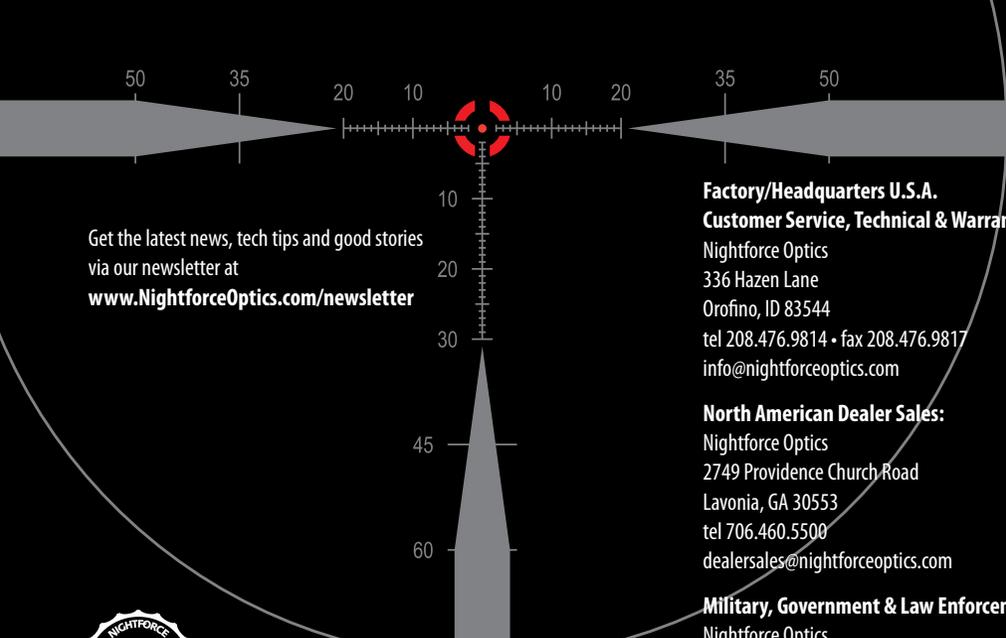
**U.S.A. & Canada:**  
**Nightforce Optics**  
**Attention: Service Dept.**  
**336 Hazen Lane**  
**Orofino, Idaho 83544**

tel 208.476.9814  
fax 208.476.9817  
www.NightforceOptics.com

**International:**  
**Nightforce Optics**  
**Attention: Service Dept.**  
**11 Manton Street**  
**Hindmarsh, SA 5007 Australia**

tel +61 (0)8 8440 0888  
fax +61 (0)8 8346 0504  
www.NightforceOptics.com

**Be sure to register your warranty at**  
**[www.NightforceOptics.com/WarrantyRegistration](http://www.NightforceOptics.com/WarrantyRegistration)**



Get the latest news, tech tips and good stories  
via our newsletter at  
[www.NightforceOptics.com/newsletter](http://www.NightforceOptics.com/newsletter)



# NIGHTFORCE®

All trademarks, graphics and designs herein are the property of Nightforce Optics. Product specifications are subject to change without notice. Products may differ in appearance from those shown here; not responsible for typographical errors. Visit [www.NightforceOptics.com](http://www.NightforceOptics.com) for current information, tutorials, and video. Lightforce USA, dba Nightforce Optics.  
©Nightforce Optics 2018 1/18

#### **Factory/Headquarters U.S.A. Customer Service, Technical & Warranty:**

Nightforce Optics  
336 Hazen Lane  
Orofino, ID 83544  
tel 208.476.9814 • fax 208.476.9817  
info@nightforceoptics.com

#### **North American Dealer Sales:**

Nightforce Optics  
2749 Providence Church Road  
Lavonia, GA 30553  
tel 706.460.5500  
dealersales@nightforceoptics.com

#### **Military, Government & Law Enforcement:**

Nightforce Optics  
2749 Providence Church Road  
Lavonia, GA 30553  
tel 706.460.5515  
militaryinfo@nightforceoptics.com



[facebook.com/NightforceOptics](https://facebook.com/NightforceOptics)



[instagram.com/Nightforce\\_Optics](https://instagram.com/Nightforce_Optics)



[twitter.com/NightforceOptx](https://twitter.com/NightforceOptx)



[youtube.com/NightforceOptics](https://youtube.com/NightforceOptics)

#### **Marketing:**

Nightforce Optics  
2749 Providence Church Road  
Lavonia, GA 30553  
tel 706.460.5505  
marketing@nightforceoptics.com

#### **European, Asian & African Sales:**

Nightforce Optics  
2749 Providence Church Road  
Lavonia, GA 30553  
tel 706.460.5511  
intlsales@nightforceoptics.com

#### **Australian & South Pacific Sales:**

Nightforce Optics  
11 Manton Street  
Hindmarsh, SA 5007 Australia  
tel +61 (0)8 8440 0888  
fax +61 (0)8 8346 0504

#### **International Warranty & Service:**

Please contact your country's authorized Nightforce Optics distributor and/or retailer for instructions. A list of international distributors and dealers can be found at [www.NightforceOptics.com](http://www.NightforceOptics.com).