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> Nightforce ATACR 1-8x24mm F1 Riflescope User Manual

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Model: ATACR 1-8x24mm F1

INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your Nightforce ATACR 1-8x24mm F1 Riflescope. Please read this manual thoroughly before using your riflescope to ensure optimal performance and longevity.



Figure 1: Nightforce ATACR 1-8x24mm F1 Rifle scope

KEY FEATURES

- **ED Glass:** Provides pristine image clarity, superb color contrast, and exceptional resolving power for target identification at extreme distances.
- **1-8x Magnification:** Offers a versatile magnification range, from a true 1x for rapid engagements to 8x for extended range target acquisition.
- **FC-DMx First Focal Plane (FFP) Reticle:** An intelligent reticle design that maintains accurate hold and hold-off points across all magnification settings.
- **Daylight Visible Red Illumination:** Features bright, daylight-visible illumination for the center red dot, enabling quick target acquisition similar to a red-dot sight.
- **Capped Turrets:** Low-profile turrets are capped to prevent unintentional adjustments, ensuring settings remain secure.
- **.1 Mil-Radian Adjustments:** Provides precise and repeatable adjustments for windage and elevation.

- **Integrated Power Throw Lever (PTL):** Facilitates fast and efficient magnification changes.
- **NVD Compatible:** Designed for compatibility with Night Vision Devices.

SETUP

1. Mounting the Riflescope

Proper mounting is crucial for accuracy and consistent performance. Use high-quality rings and a base compatible with your firearm. Ensure the riflescope is mounted securely, allowing for correct eye relief and a level reticle. Refer to the mounting system manufacturer's instructions for specific torque specifications and installation procedures.



Figure 2: Side view of the riflescope, showing turrets and magnification ring.

2. Eye Relief Adjustment

With the riflescope mounted, adjust its position forward or backward in the rings until you achieve a full, clear field of view without any dark crescent shadows (vignetting) around the edges. This is your optimal eye relief. Secure the rings firmly once adjusted.

3. Diopter Adjustment

Point the riflescope at a clear, bright area (e.g., the sky) and look through it. Adjust the diopter ring (located on the eyepiece) until the reticle appears sharp and in focus. This adjustment compensates for individual eyesight differences and should be set before zeroing.

OPERATING THE RIFLESCOPE

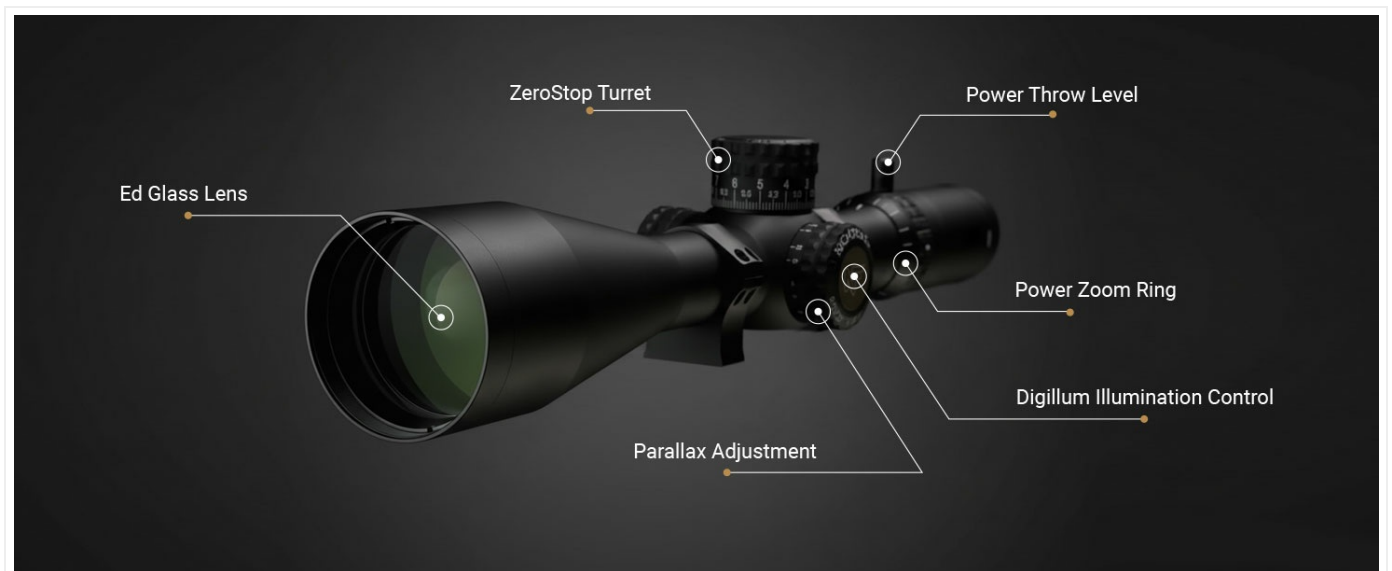


Figure 3: Key features of the ATACR riflescope.

1. Magnification Adjustment

The magnification ring is located at the rear of the riflescope body. Rotate the ring to adjust the magnification from 1x to 8x. The integrated Power Throw Lever (PTL) allows for quick and ergonomic changes to magnification.

2. Reticle Illumination (Digillum)

The ATACR 1-8x24mm F1 features Digillum digital reticle illumination. The illumination control is typically located on the side parallax knob or a dedicated turret. Rotate or press the control to activate and adjust the brightness of the reticle's center dot. Multiple intensity settings are available to suit various lighting conditions, including bright daylight and low light. The system is designed to be NVD compatible at its lowest settings.

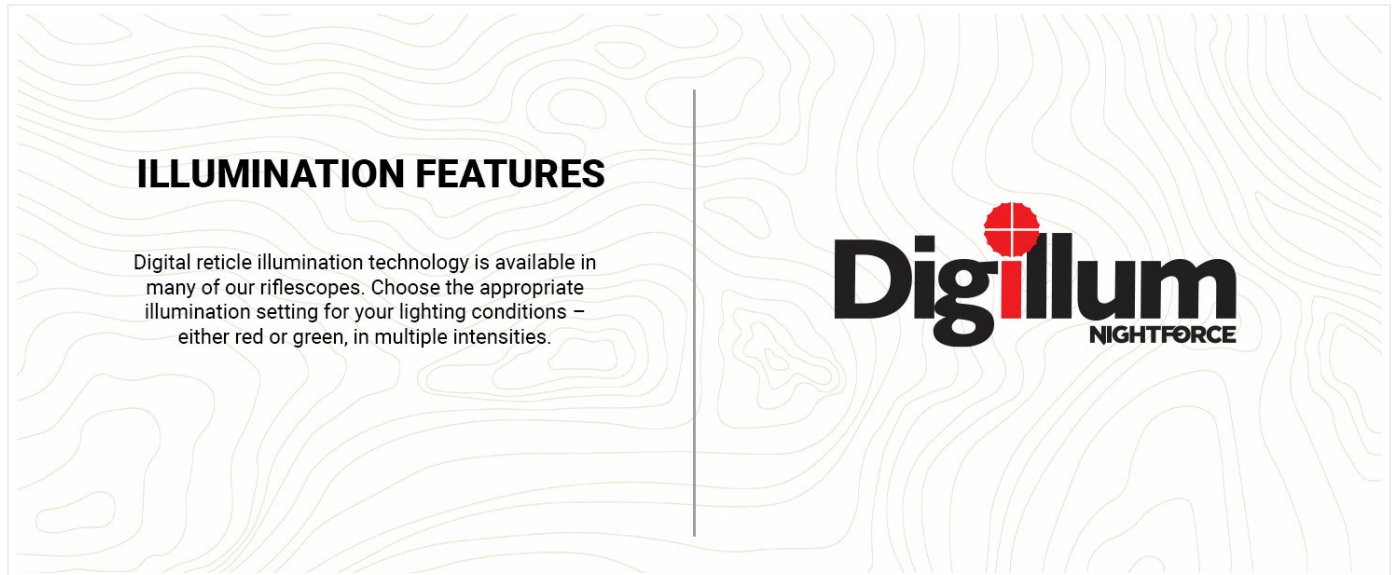


Figure 4: Digillum illumination control details.

3. Windage and Elevation Adjustments (Capped Turrets, ZeroStop, ZeroHold)

The riflescope is equipped with capped turrets for windage and elevation, providing .1 Mil-Radian adjustments per click. To make adjustments, unscrew the turret caps. Each click moves the point of impact by a precise amount. After making adjustments, replace the caps to protect the turrets from accidental movement and environmental elements.

ZeroStop: After zeroing your rifle, the ZeroStop feature allows you to set a positive mechanical stopping point at your chosen zero. This enables you to return to your original zero setting quickly and reliably, even in low light or under pressure, simply by rotating the elevation dial down until it stops.

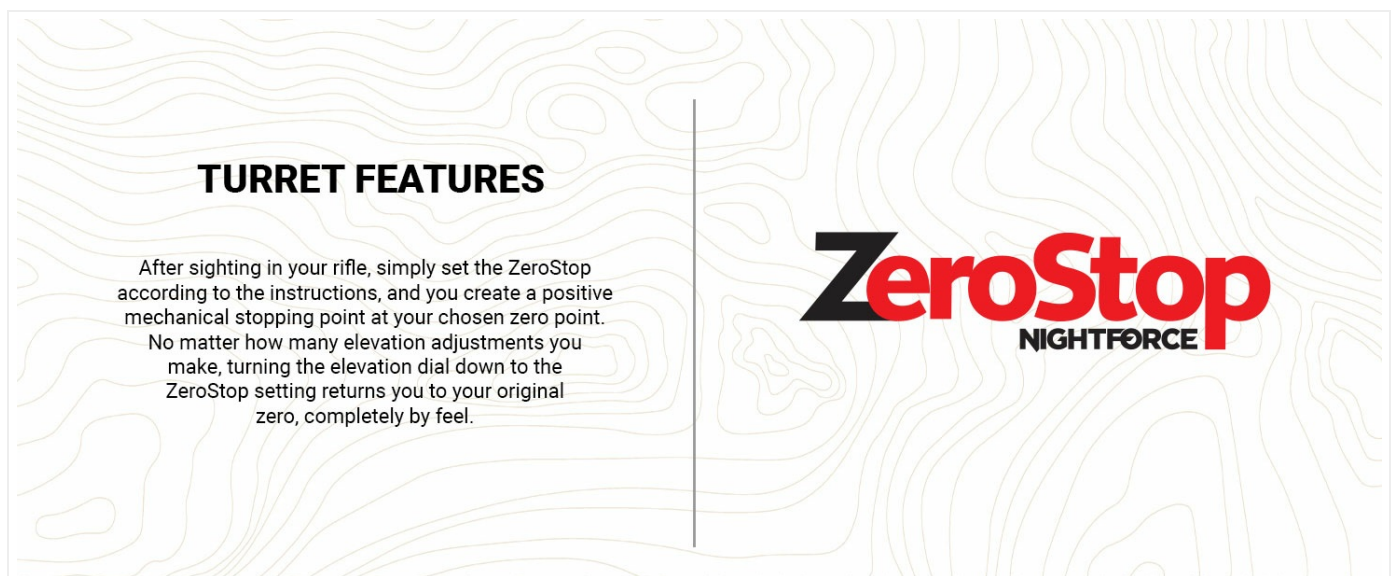


Figure 5: Explanation of the ZeroStop feature.

ZeroHold: This feature, present on some ATACR models, holds the elevation turret at zero until a button is depressed. This allows for rapid return to zero after elevation adjustments and permits dialing below zero if needed.

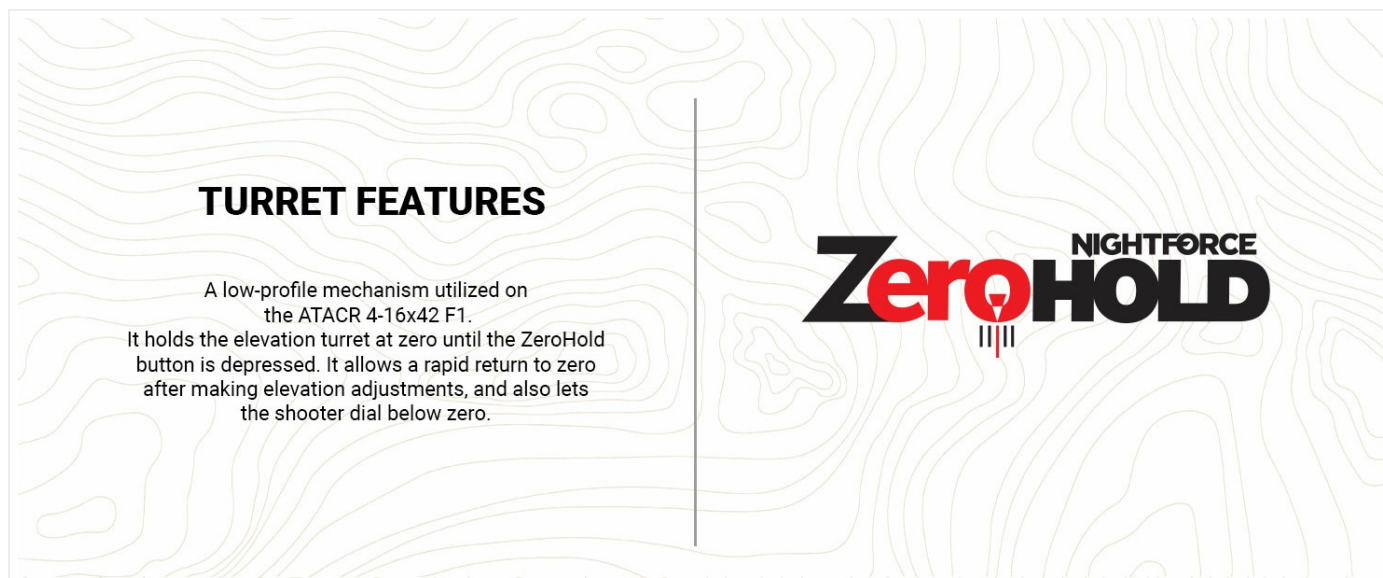


Figure 6: Explanation of the ZeroHold feature.

4. FC-DMx First Focal Plane Reticle

The FC-DMx reticle is a First Focal Plane (FFP) design, meaning the reticle subtensions remain accurate at all magnification settings. This allows for consistent holdovers and windage corrections regardless of the zoom level. Familiarize yourself with the specific markings and their values for precise ranging and aiming.

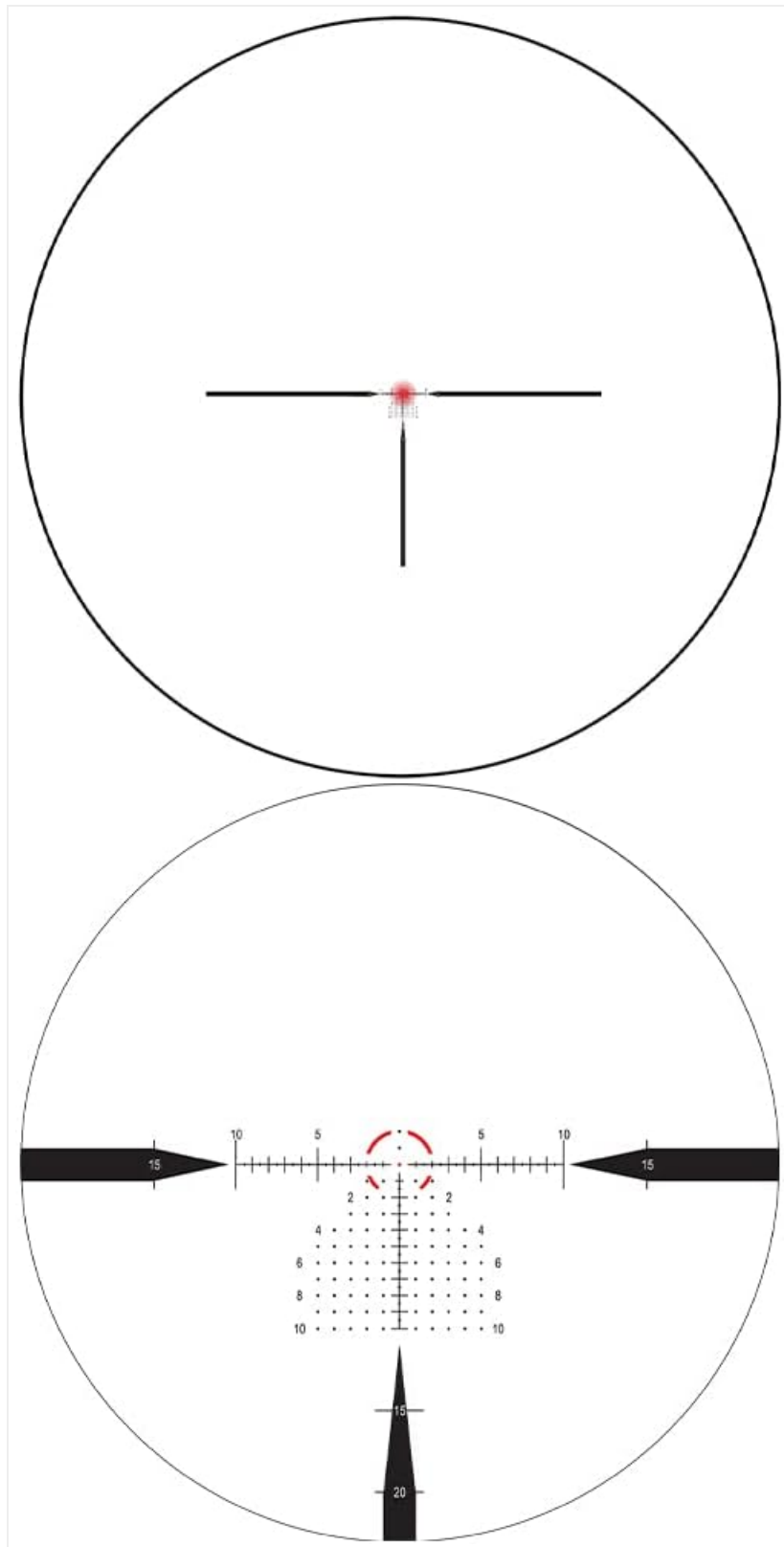


Figure 7: Example of a First Focal Plane reticle. The FC-DMx reticle provides precise hold and hold-off points.

MAINTENANCE

1. Cleaning the Lenses

Use a soft lens brush to remove any loose dust or debris from the objective and eyepiece lenses. For smudges or fingerprints, apply a small amount of lens cleaning solution to a clean microfiber lens cloth and gently wipe the lenses in a circular motion. Avoid using harsh chemicals or abrasive materials, as these can damage the lens coatings.

2. Cleaning the Riflescope Body

Wipe the exterior of the riflescope with a soft, damp cloth to remove dirt and grime. For stubborn residue, a mild soap solution can be used, followed by wiping with a clean, damp cloth and then drying thoroughly. Ensure all caps and covers are in place to prevent moisture ingress.

3. Storage

Store the riflescope in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided Tenebraex Flip Up Covers to protect the lenses when not in use. If storing for extended periods, consider using a desiccant pack to absorb moisture.

TROUBLESHOOTING

- **Blurry Image:**

- Ensure the diopter adjustment is correctly set for your eye.
- Check for smudges or dirt on the lenses and clean them as per maintenance instructions.
- Verify that the target is within the scope's effective range and that environmental conditions (e.g., heat shimmer) are not affecting clarity.

- **Reticle Not Illuminating:**

- Check the battery. Replace if necessary.
- Ensure the illumination control is turned on and adjusted to a visible brightness level.
- Verify battery contacts are clean and free of corrosion.

- **Inconsistent Point of Impact:**

- Check that the riflescope is securely mounted and that all mounting screws are torqued to specification.
- Ensure turret caps are securely fastened after adjustments.
- Verify that the ZeroStop/ZeroHold mechanism is correctly engaged if applicable.
- Inspect the barrel and crown of the firearm for damage.

SPECIFICATIONS

Brand	Nightforce
Model	ATACR 1-8x24mm F1
Color	Black
Style	F1 FC-DMx
Sport	Hunting
Item Weight	2.5 Pounds
Material	Plastic (Housing)
Magnification Maximum	8 x
Objective Lens Diameter	24 Millimeters
Magnification Minimum	1 x

Compatible Devices	Handgun (Note: Typically used on rifles, check mounting compatibility)
Mounting Type	Weaver Mount (Requires compatible rings)
Night Vision	NVD Compatible Illumination
Field Of View	13.1 Feet (at 100 yards, 1x)
Reticle Type	First Focal Plane (FC-DMx)
UPC	847362020617

WARRANTY INFORMATION

Nightforce Optics provides a limited lifetime warranty on its riflescopes, covering defects in materials and workmanship. This warranty typically applies to the original owner and does not cover damage caused by misuse, abuse, or unauthorized repairs. For complete details regarding your specific warranty coverage and terms, please refer to the official Nightforce website or contact their customer service directly.

CUSTOMER SUPPORT

Should you encounter any issues or require assistance with your Nightforce ATACR 1-8x24mm F1 Rifle scope, please contact Nightforce customer support. You can typically find contact information, including phone numbers and email addresses, on the official Nightforce Optics website. When contacting support, please have your rifle scope's model and serial number available.

For additional resources, including FAQs and detailed product information, visit the [Nightforce Store on Amazon](#) or the official Nightforce Optics website.

