

INTEGRIX™

iX603FA2



USER MANUAL

3-18x44 FFP OPTIC

www.leapers.com



INTEGRIX™

THE CULMINATION OF INTEGRATED & INTELLIGENT OPTICAL DESIGN & MANUFACTURING

A critical decision made often by shooters is what optic to pick for their firearms. It is a decision, one of integrity and intelligence to justify what we consider to be quality.

The voice of the customer has spoken. Leapers has listened, and listened with decades of attention as well as persistent R&D. We have learned that quality optics achieve optimal performance only when superior optical design and mechanical precision integrate seamlessly under the strictest tolerance control. When such standards are met at the manufacturing level, our customers' dreams come true.

Leapers brings to the forefront of shooters, the culmination of integrated and intelligent optical design and manufacturing. **THIS IS INTEGRIX™.**

INTEGRIX™ represents peak performance achieved through tremendous and painstaking efforts in innovation. World-class experts led the development with application experiences and sophisticated optical knowhow. Extensive computer simulations were conducted to obtain superior on-axis and off-axis image resolution, optimal FOV, consistent eye relief, and accommodating exit pupil. Every lens is designed with precision curvature, center-to-edge thickness, perfect centering, and precise inter-element air gaps. Using German and Japanese glass, all lenses are precision ground and coated with 11-layers, delivering over 92% light transmission to guarantee optimal image resolution, edge-to-edge clarity, and contrast. Intelligently integrated with our mechanical and electrical systems, disciplined assembly and quality control, and most demanding testing; The INTEGRIX™ optic line - a state of the art precision instrument - is dedicated by Leapers to the most discerning of customers.



TABLE OF CONTENTS

Specifications	07
Overview	08 - 09
Scope Mounting	10 - 13
Operation	14 - 20
Battery Installation	14
First Focal Plane	14
Reticle	15 - 16
Side Illumination Adjustment	16 - 17
Magnification Adjustment	17
Diopter Adjustment	17 - 18
Side Parallax Adjustment	18
Zeroing Your Scope	19 - 20
Care and Maintenance	21
Warranty Information	22



WARNING

Read entire manual prior to installing and operating the scope.
Make sure firearm is unloaded prior to installation.

THE INTEGRIX™ STANDARD

HIGHER DEFINITION IMAGE QUALITY

- » Quality German SCHOTT and Japanese OHARA Glass
- » Multi-coated Lenses for Optimal Scratch Resistance and to Minimize Glare and Reflection
- » Advanced 92% Light Transmission
- » Striking Edge-to-edge Clarity with High Contrast Resolution
- » Superior Wide-angle Field of View
- » Smooth, Consistent, and Accurate Zoom Cam Curve

READY FOR WHEN AND WHERE IT COUNTS

- » IPX7 Waterproof Rated with -40°F to 160°F Operational Range
- » .338 LAPUA Magnum Caliber Rated
- » Red and Green Reticle Illumination
- » 12 Hour Automatic Shutoff
- » Guaranteed for Life

TAILORED ERGONOMICS

- » Intuitive Push/Pull Lockable and Zero Resettable Windage and Elevation Turrets
- » Predictable, Tactile, and Audible Click Values
- » Serrated Turrets, Power Ring, and Eyepiece Diopter Optimized for Gloved Use
- » Optional Throw Lever Included

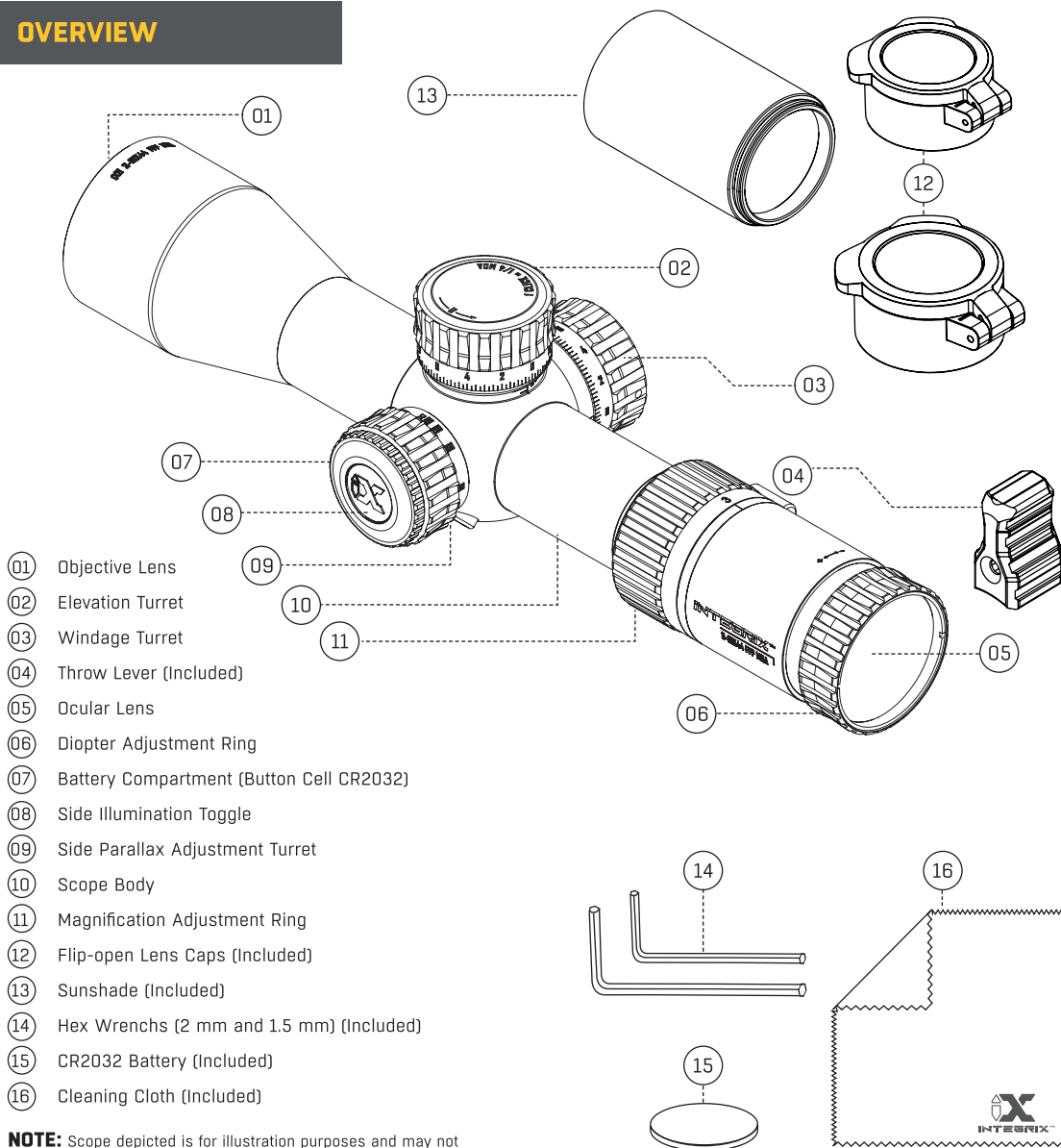
SUPERIOR QUALITY
RUGGED PERFORMANCE
VIVID DETAIL
THIS IS INTEGRIX™



SPECIFICATIONS

Magnification.....	3X - 18X
Focal Plane.....	First Focal Plane
Length	11.7" / 297 mm
Tube Diameter	34 mm
Objective Diameter	44 mm
Mounting Space Front.....	1.76" / 44.63 mm
Mounting Space Rear	1.84" / 46.75 mm
Weight (w/Battery)	28.6 oz / 811 g
Eye Relief	3.94" / 100 mm
Exit Pupil	11 mm - 2.5 mm
Field of View	37.7' - 6.3' @ 100 yds 12.6 m - 2.1 m @ 100 m 7.2° - 1.2°
Diopter	-3D - +2D
Parallax.....	Side AO 30 yds / 27.4 m - Infinity
Elevation Travel.....	Up 60 MOA, Down 30 MOA
Windage Travel.....	Right 12 MOA, Left 12 MOA
MOA Per Revolution	24 MOA
Click Value	1/4 MOA
Reticle.....	Etched Glass A2 MOA
Illumination	Red / Green (8 Settings Each)
Fogproof	Nitrogen Gas Purged
Waterproof.....	IPX7
Battery Type	CR2032

OVERVIEW



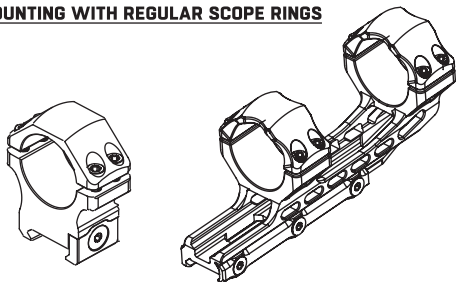
NOTE: Scope depicted is for illustration purposes and may not represent your actual product and its featured components.

PROPER MOUNTING OF INTEGRIX™ SCOPES TO SCOPE RINGS

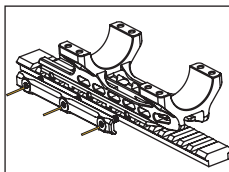


WARNING: Read entire manual prior to installing and operating the scope. Make sure firearm is unloaded prior to installation.

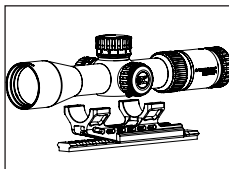
MOUNTING WITH REGULAR SCOPE RINGS



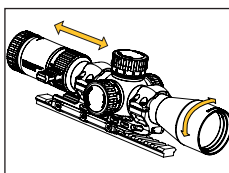
1. Mount the correct scope rings or mount to the firearm's rail whether it is a Picatinny, Weaver, or Dovetail mounting interface. Follow the recommended procedures provided by the scope rings or mount manufacturer.



2. Remove the top halves of the scope rings and place the scope within its saddle.

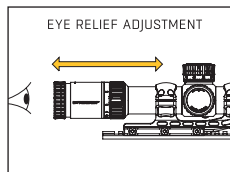


3. Reinstall the top halves with just enough torque to hold the scope in place, but still rotate along its axis and move forward and rearward in the saddle.



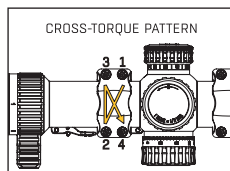
4. With a comfortable cheek weld and shooting posture, look through the scope and move it forward or backward within the saddle to adjust for eye relief. Once you can clearly see through the scope with bright and full sight picture and no

peripheral "Black Ring", proper eye relief is achieved. Repositioning the scope rings or mount on the firearm may be required in addition to the above to achieve proper eye relief.

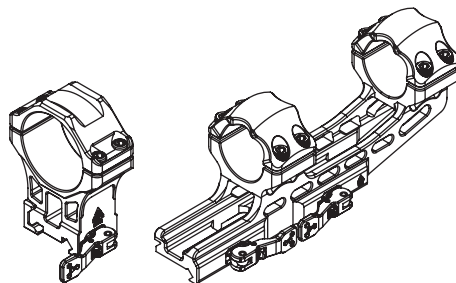


5. Using a bubble leveler or other scope alignment tool or method, ensure the scope's reticle alignment is not canting, but leveled with that of the firearm.

6. Secure the scope in place using a cross-torque pattern for the screws with proper correct torque value provided by the manufacturer.

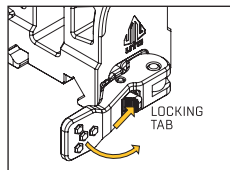


MOUNTING WITH ACCU-SYNC® QR SCOPE RINGS



1. Using the Quick Release Feature

Unlocking the Quick Release Mount - Simultaneously press the lever's spring-loaded locking tab while moving the lever completely to the opposite side. The spring-loaded Picatinny side plate should be seen moving away from the scope ring's base.



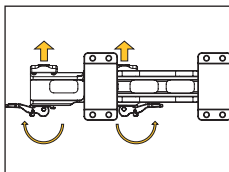
Locking the Quick Release Mount - Move the lever completely to the opposite side. The spring-loaded Picatinny side plate should be seen moving towards the scope ring's base. An audible and tactile click of the spring-loaded locking tab reengaging should be heard and felt once locked.

2. Adjusting Mount Tension

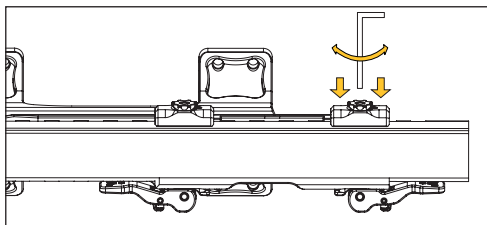
ACCU-SYNC® QR Scope Rings and Mounts are tension adjustable and generally require no tools for making adjustments. A hex key is however provided to make adjustments easier up front if needed.

- a. Start with the mount in its unlocked position.

- b. Insert the long-end of the hex key into the center of the adjustment gear found on the spring-loaded Picatinny side plate.



- c. Press and hold down the Picatinny side plate with your support hand, compressing the springs, and allowing the adjustment gear to clear the locking key and rotate. We find that using the thumb and middle finger to depress the side plate to work well.

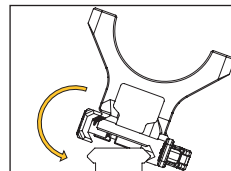


- d. Rotating the hex key counterclockwise decreases tension and clockwise increases tension.
- e. Be sure to return the gear to its keyed position where it sits flush with the Picatinny side plate before operating the quick release lever.

3. Installation

- a. Start with the mount in its unlocked position.

- b. Align the squared recoil stops with the slots on the Picatinny rail. Rock the mount's base over onto the Picatinny rail starting with the fixed side of the base first.

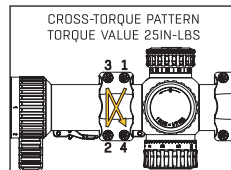


- c. Once the base is seated flush with the Picatinny rail, proceed to lock the quick release mount. Do not force the quick release lever to its locked position if excessive resistance is felt. This is an indication that tension adjustments need to be made.

- d. Proper tension adjustment is achieved when the mount attaches securely to the Picatinny rail without any movement forward, rearward, or side to side when in the locked position.

- e. The amount of force required to lock and unlock the quick release lever should not be excessive or require using two hands, tools, etc. The action of doing so however, is a deliberate one and some resistance will be felt.

- f. Recommended torque value for the ring top screws is 25in-lbs. Using a cross-torque tightening pattern is recommended.



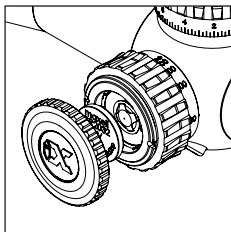
OPERATION



WARNING: Read entire manual prior to installing and operating the scope. Make sure firearm is unloaded prior to installation.

BATTERY INSTALLATION

Turn the outer-most cap counterclockwise to access the battery compartment. With the + side facing outward, insert the CR2032 battery into the battery compartment until it is fully seated and captured by the metallic contacts. Note that upon seating the battery and looking through the scope, reticle illumination will have turned on even without the battery cap reinstalled yet. The illumination will be in its default red color. This will confirm that the battery is seated properly prior to reinstalling the battery cap. Reinstall the battery cap until snug.



FIRST FOCAL PLANE (FFP)

A first focal plane (FFP) scope is one in which the reticle changes size as the magnification adjusts. The reticle appears small at low magnification and scales up in size at high magnification. Illustration 1 shows the reticle at low magnification. Illustration 2 shows the reticle at high magnification.

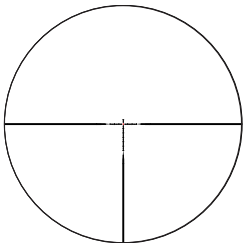


Illustration 1 @3X

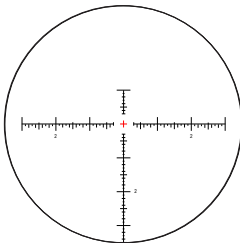


Illustration 2 @18X

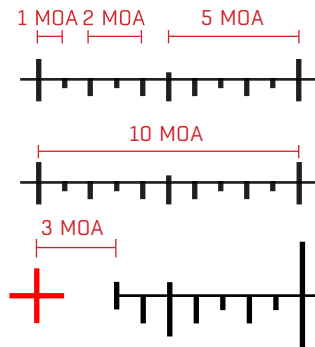
RETICLE

A2 MOA Reticle

This reticle provides a floating center crosshair to aid in quickly acquiring the target and is the only part of the reticle that illuminates. This arrangement draws in the eye while freeing up space between the crosshair and the rest of the reticle. At distance, simple minutes of angle (MOA) holdover stadia aid users in reaching their target more precisely.

Reticle Holdovers

The INTEGRIX™ 3-18x44 FFP scope provides MOA holdovers in increments of 1 MOA between each stadia, and increments of 2, 5, and 10 MOA depending on the length of the stadia. Holdovers start at 3 MOA in either direction.



Range Estimation - MOA Ranging and Measuring

Using a MOA ranging formula and the reticle to measure your target.

If the target's dimension is known, you may use the MOA ranging formula. To start, measure the target through the scope by using the stadia markings of the reticle.

1. From one stadia to the next is one MOA.
2. Measure your target by placing a stadia against one edge of the target and measuring to the opposite edge. Count how many stadia the target spans.

3. Once the target has been measured in MOAs, use one of the formulas below to calculate the estimated distance to the target.

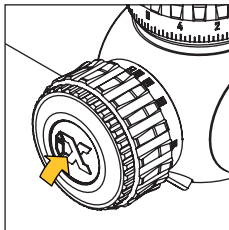
$$\text{Distance to Target (Meters)} = \frac{\text{Target Size (Inches)}}{\text{Image Size (MOA)}} \times 87.3$$

$$\text{Distance to Target (Yards)} = \frac{\text{Target Size (Inches)}}{\text{Image Size (MOA)}} \times 95.5$$

SIDE ILLUMINATION ADJUSTMENT

Powering On

To turn on reticle illumination, apply a single press to the left side illumination toggle. The reticle will illuminate in either red or green depending on what color setting was last used prior to having been turned off. The intensity of the illumination will also have been saved.



Toggling Between Red or Green

To switch between red or green illumination, simply press and hold the toggle for approximately 3 seconds and release once you see the illuminated reticle begin to blink. The reticle will then change to the other color.

Adjusting Brightness Intensity

Upon activation, applying additional single presses will toggle the illumination through the 8 available brightness intensities. When the highest or lowest brightness intensity is reached, the reticle will blink four times, signaling that any additional presses will begin scaling the brightness intensity in the opposite direction.

Powering Off

To turn off reticle illumination, simply press and hold the toggle for approximately 5 seconds or until the illumination

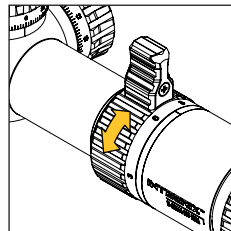
shuts off. The reticle will blink and change color just prior to shutting off.

Automatic Shutoff

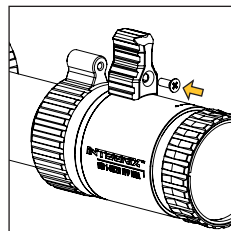
Illumination will automatically shut off after 12 hours if left on. To turn illumination back on, simply press the illumination toggle once.

MAGNIFICATION ADJUSTMENT

Adjust the magnification by rotating the power ring counterclockwise to zoom in and clockwise to zoom out. An optional extended throw lever is included and can be installed to aid in making swifter adjustments to the power ring.

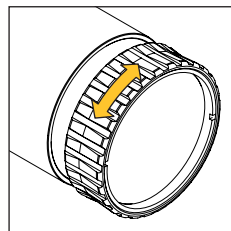


To install the throw lever, slide its corresponding slot over the protruding tab on the power ring. Secure the throw lever to the tab using its included screw and 2mm hex tool. Do not over-tighten.



DIOPTER ADJUSTMENT

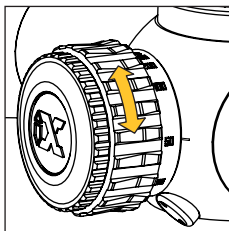
The diopter adjustment ring is located at the ocular (rear) end of the scope. The wide range of the diopter allows the scope to be fine-tuned to the user's unique vision for optimized reticle clarity and sharp image quality.



To make adjustments, point the scope at a light-colored background to clearly view the reticle. While looking through the scope turn the ring clockwise or counterclockwise until the reticle appears clear and sharp. It's important to make adjustments incrementally each time with a fresh view of the reticle and before your eyes automatically adjust to the reticle over time.

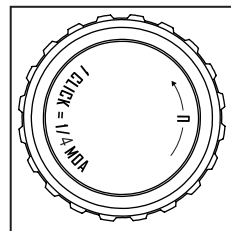
SIDE PARALLAX ADJUSTMENT

1. Rotate the left side parallax adjustment turret until the target image is sharp. Yardage indicators along the circumference of the turret serve as distance approximations when in line with the witness mark. If the distance to the target is known, adjust the turret to the closest yardage indicator and then rotate the turret accordingly to further fine-tune and optimize for parallax. For example, if the target is 200 yards away, rotate the turret to align the 200 yard indicator with the witness mark. Then from there and when viewing through the scope, make any fine-tune adjustments necessary until the target image is sharp.
2. Check for parallax error by moving your head side to side while looking through the scope. When there is no apparent shift of the target image on the reticle, parallax adjustment is done. If you notice any shift, adjust the turret slightly until the shift is eliminated.
3. Parallax adjustment is distance specific. Adjustments are required as distance to the target changes.



ZEROING YOUR SCOPE

The INTEGRIX™ 3-18x44 FFP scope is outfitted with 1/4 MOA Windage & Elevation (W/E) turrets. The laser engraved letters and arrows (U = Up, R = Right) refer to the direction that the point of impact (POI) changes when adjustments are made.

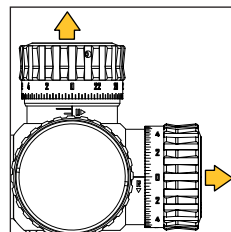


1. Bore-sighting

To zero the scope, we suggest bore-sighting first to eliminate having to make any major adjustments and to get on paper. Once bore-sighted, shoot a 5-shot group at your intended zero distance. Make sure to aim at the same spot (likely the bullseye) every time. Make any necessary adjustments to the windage and elevation so that the POI is the same as your point of aim (POA) at the bullseye. Your scope is zeroed once this is achieved at your intended zero distance.

2. Making Adjustments

The INTEGRIX™ 3-18x44 FFP scope features lockable W/E adjustment turrets. Turrets are "locked" out of the factory. To make adjustments, first pull out the exposed turrets until they unlock. Once adjustments have been made, simply push the exposed turrets back in until they lock and adjustments can no longer be made.



3. Resetting Zero

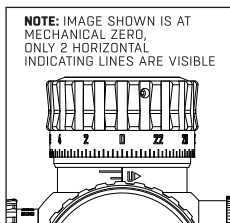
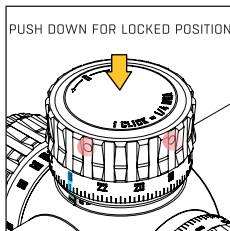
After your scope is zeroed, you may reset the W/E adjustment turrets so that the zero mark on the turret is in line with the witness mark on the scope body. The purpose of this is to ensure the shooter can more easily and quickly return their turrets back to their original zero

position after having made any adjustments from it. The witness mark incorporates 4 horizontal lines indicating a complete revolution of the turret per line. The longest line also indicates the mechanical zero of the scope.

To reposition the dials, make sure the turrets are in the locked / collapsed position.

- a. There are two set screws on the side near the top edge of the turret caps. Using the provided 1.5mm hex wrench, back the set screw out 1 turn so the turret cap is disengaged.
- b. Rotate the loosened turret cap until the zero mark is in line with the witness mark on the scope body.
- c. Gently tighten both set screws until the turret is secure and reengages.

The witness mark incorporates 4 horizontal lines indicating a complete revolution of the turret per line. The longest line also indicates the mechanical zero of the scope.



CARE AND MAINTENANCE

LENSES:

To clean lenses, remove any large particles with an optical lens brush. To remove fine particles, use the provided microfiber cloth. If the cloth becomes soiled, wash in lukewarm soapy water and leave to air dry. To further clean the lenses, you may use pure alcohol, high-grade glass cleaner, or distilled water on a cotton swab. To ensure long-lasting high performance, keep lens surfaces free of dirt, oil, grease, etc.

NOTE: To best protect the lenses, close the provided lens caps when the scope is not in use.

TURRETS:

When a windage or elevation turret is loosened for the purpose of resetting the zero, keep the turret free of any liquids, aerosols, dirt, or dust debris.

SCOPE BODY:

If dirt, dust, fingerprints, etc. accumulate on the scope body, simply wipe the body down with a clean dry cloth. Do not use the included microfiber cloth.

STORAGE:

Store your scope in a well-ventilated, dry, and dark place. If the scope is wet, dry the scope prior to storage. If storing for an extended period of time, remove the battery from the scope.

THE BEST NEVER REST LIFETIME WARRANTY

Leapers, Inc. warrants that all products conform to published specifications and are free from defects in material and workmanship. Leapers, Inc. will repair or replace a defective product for the duration of the product's life span. Verification through a Return Authorization (RA) number is required. If the product is discontinued, credit in the amount of the product's MSRP may be applied toward a replacement item.

NOTE: Our warranty does not extend to accidental damages, loss, negligence, misuse, products disassembled beyond normal maintenance, or unauthorized repair or alteration.

Please feel free to call us at (734) 542-1500, email us at integrrix@leapers.com, or submit a warranty request form via our website at www.ixoptics.com/support for warranty and customer service inquiries.

NOTE

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