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Athlon Optics Argos BTR GEN2 6-24X50

Athlon Optics Argos BTR GEN2 6-24X50 Riflescope User Manual

Model: Argos BTR GEN2 6-24X50 APMR FFP IR MIL

Introduction

This manual provides comprehensive instructions for the proper use, setup, maintenance, and troubleshooting of your Athlon Optics Argos BTR GEN2 6-24X50 First Focal Plane Riflescope. Please read this manual thoroughly before using your riflescope to ensure optimal performance and safety.
The Argos BTR GEN2 riflescope is designed for precision and durability, featuring a 4x magnification range, Precision True Zero Stop, Advanced Fully-Multi Coated Optics, and an XPL coating for lens protection. Its aircraft-grade aluminum tube ensures robust performance in various conditions.

Product Overview

The Athlon Optics Argos BTR GEN2 6-24X50 riflescope is equipped with several key features for enhanced optical performance and user control.

Key Features

- **First Focal Plane (FFP) Reticle:** The reticle maintains its proportional size relative to the target across all magnification settings, allowing for accurate ranging and holdovers at any power.
- **Illuminated Reticle:** Provides enhanced visibility in low-light conditions.
- **Advanced Fully Multi-Coated Lenses:** Reduces reflected light and increases light transmission for a brighter, clearer image.
- **Precision Zero Stop System:** Allows for a precise return to your established zero setting.
- **Aircraft Grade Aluminum Tube:** Ensures durability and structural integrity.
- **Argon Purged:** Prevents internal fogging due to temperature changes.
- **Waterproof, Fogproof, Shockproof:** Designed to withstand harsh environmental conditions.

Component Identification

Refer to the diagram below for identification of the main components of your riflescope.



Image: Labeled diagram of the Athlon Optics Argos BTR GEN2 riflescope, highlighting the Ocular Lens, Magnification Adjustment, Illumination Switch, Parallax Side Focus, Elevation Adjustment, Windage Adjustment, and Objective Lens.

- **Ocular Lens:** The eyepiece through which you view the target.
- **Magnification Adjustment Ring:** Rotates to change the magnification level (6x to 24x).
- **Illumination Switch:** Controls the brightness of the illuminated reticle.
- **Parallax Side Focus Knob:** Adjusts for parallax error, ensuring the reticle and target are on the same focal plane. Adjustable from 10 yards to infinity.
- **Elevation Adjustment Turret:** Used to adjust the vertical point of impact.
- **Windage Adjustment Turret:** Used to adjust the horizontal point of impact.
- **Objective Lens:** The front lens of the riflescope, gathering light from the target.

Setup

Mounting the Riflescope

1. **Select Appropriate Mounts:** Use high-quality rings and bases compatible with your rifle and the riflescope's 30mm tube diameter.
2. **Secure Bases:** Attach the bases to your rifle's receiver according to the manufacturer's instructions. Ensure they are tightly secured.
3. **Position Rings:** Place the rings on the bases, ensuring proper spacing for optimal scope placement.
4. **Place Riflescope:** Carefully place the riflescope into the bottom halves of the rings.
5. **Adjust Eye Relief:** With the rifle shouldered, slide the riflescope forward or backward in the rings until you achieve a full, clear field of view without any dark crescent (vignetting) around the edges. This is your eye relief.
6. **Level the Reticle:** Rotate the riflescope in the rings until the reticle is perfectly level with the rifle's bore. A reticle leveling tool is recommended for precision.
7. **Tighten Rings:** Install the top halves of the rings and tighten the screws evenly and gradually, following the torque specifications provided by the ring manufacturer. Overtightening can damage the scope tube.

Focusing the Reticle (Diopter Adjustment)

This adjustment ensures the reticle appears sharp and clear to your eye.

1. Point the riflescope at a plain, bright background (e.g., a clear sky or a blank wall).
2. Look through the scope and quickly glance at the reticle.
3. Adjust the diopter ring (located on the ocular lens) until the reticle appears perfectly sharp. Avoid staring at the reticle for too long, as your eye may compensate for blurriness.

Operating Instructions

Magnification Adjustment

Rotate the magnification adjustment ring to change the power of the riflescope. The Argos BTR GEN2 offers a magnification range from 6x to 24x. Since this is a First Focal Plane (FFP) reticle, the reticle will appear to grow or shrink with the target as you adjust magnification, maintaining accurate subtensions at all power settings.

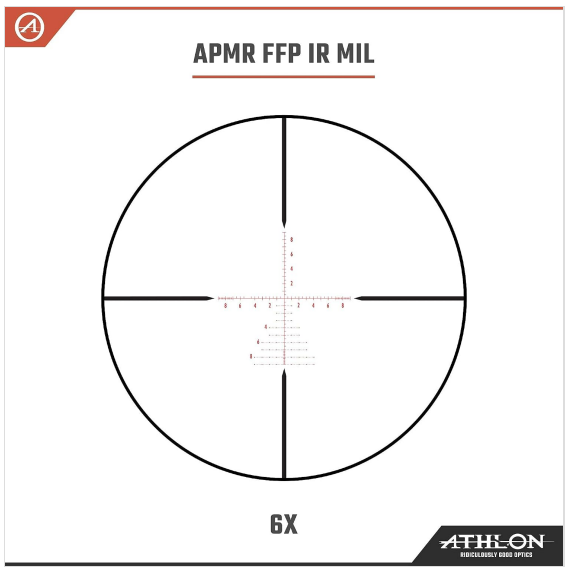


Image: View of the APMR FFP IR MIL reticle at 6x magnification, showing its appearance at lower power.

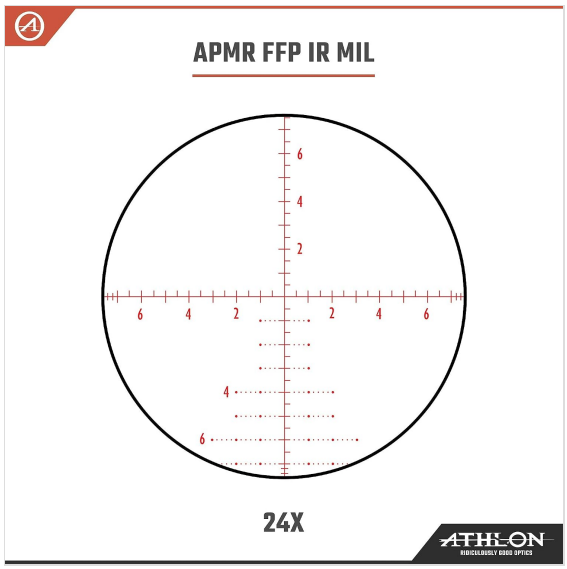


Image: View of the APMR FFP IR MIL reticle at 24x magnification, demonstrating its proportional growth with increased power.

Parallax Adjustment

Parallax is the apparent shift in the reticle's position relative to the target when your eye moves off-center. To eliminate parallax:

1. Look through the scope at your target.
2. Adjust the parallax side focus knob until the target appears sharp and clear.
3. Move your head slightly up and down, or side to side. If the reticle appears to move relative to the target, further adjust the parallax knob until this movement is eliminated.
4. The parallax adjustment range is from 10 yards to infinity.

Elevation and Windage Adjustments

The elevation and windage turrets are used to zero your riflescope and make adjustments for bullet drop and wind drift.

- **Click Value:** Each click of the turret adjusts the point of impact by 0.1 MIL.
- **Total Adjustment:** The scope offers 18 MIL of total adjustment.
- **Zeroing:** After initial shots, adjust the turrets to move the point of impact to your desired zero. Turn the elevation turret clockwise to move the impact down, counter-clockwise to move it up. Turn the windage turret clockwise to move the impact right, counter-clockwise to move it left.

Precision Zero Stop System

The Zero Stop system allows you to quickly return to your established zero without looking at the turret markings.



Image: Visual explanation of the Precision Zero Stop System, showing how it locks the zero position, and a comparison of views with and without Advanced Fully Multi-Coated Lenses.

Once your riflescope is zeroed, follow the instructions provided with your scope (or refer to the full PDF manual linked in the product description) to set the Zero Stop. This will prevent you from dialing below your zero setting, ensuring a consistent return to your base elevation.

Illuminated Reticle

The illumination switch, located on the ocular end of the scope, controls the brightness of the reticle. Rotate the switch to turn the illumination on and select your desired brightness level. Turn it off when not in use to conserve battery life.

Maintenance

Cleaning the Lenses

The lenses of your riflescope are coated with Athlon's XPL coating for protection against dirt, grease, and harsh weather.

To clean the lenses:

1. Gently brush off any loose dust or debris using a soft lens brush or compressed air.
2. Apply a small amount of lens cleaning solution to a clean microfiber lens cloth.
3. Wipe the lens surfaces gently in a circular motion, starting from the center and moving outwards.
4. Avoid using harsh chemicals, abrasive cloths, or excessive pressure, as these can damage the lens coatings.

General Care and Storage

- Keep the lens caps on when the riflescope is not in use to protect the lenses.
- Store the riflescope in a cool, dry place, away from direct sunlight and extreme temperatures.
- Avoid dropping or subjecting the riflescope to severe impacts. While shockproof, excessive force can cause damage.
- Periodically check the mounting screws for tightness, especially after extended use or heavy recoil.

Troubleshooting

Problem	Possible Cause	Solution
Blurred Image / Unclear Reticle	Improper diopter adjustment or parallax setting.	Adjust the diopter ring for reticle sharpness. Adjust the parallax side focus knob for target sharpness and to eliminate reticle shift.
Point of Impact Shift	Loose mounting rings or bases; damaged scope; improper zeroing.	Check and tighten all mounting hardware. Re-zero the riflescope. If the problem persists, contact Athlon Optics support.
Reticle Illumination Not Working	Dead battery; illumination switch off or faulty.	Ensure the illumination switch is turned on. Replace the battery if necessary. If still not working, contact support.
Fogging Inside Lenses	Seal breach (unlikely for argon-purged scopes unless damaged).	If internal fogging occurs, this indicates a seal failure. Contact Athlon Optics for warranty service.

Specifications

Feature	Detail
Magnification	6-24x
Objective Lens Diameter	50 mm
Reticle Type	APMR FFP IR MIL (First Focal Plane, Illuminated)
Click Value	0.1 MIL
Total Adjustment (Elevation/Windage)	18 MIL
Parallax Adjustment	Side Focus, 10 yards to infinity
Eye Relief	3.3 inches

Feature	Detail
Tube Diameter	30 mm
Length	14.1 inches
Weight	30.3 ounces (approx. 0.86 kg)
Material	Aircraft Grade Aluminum
Environmental Protection	Waterproof, Fogproof (Argon Purged), Shockproof
Model Number	214063
UPC	813869021723

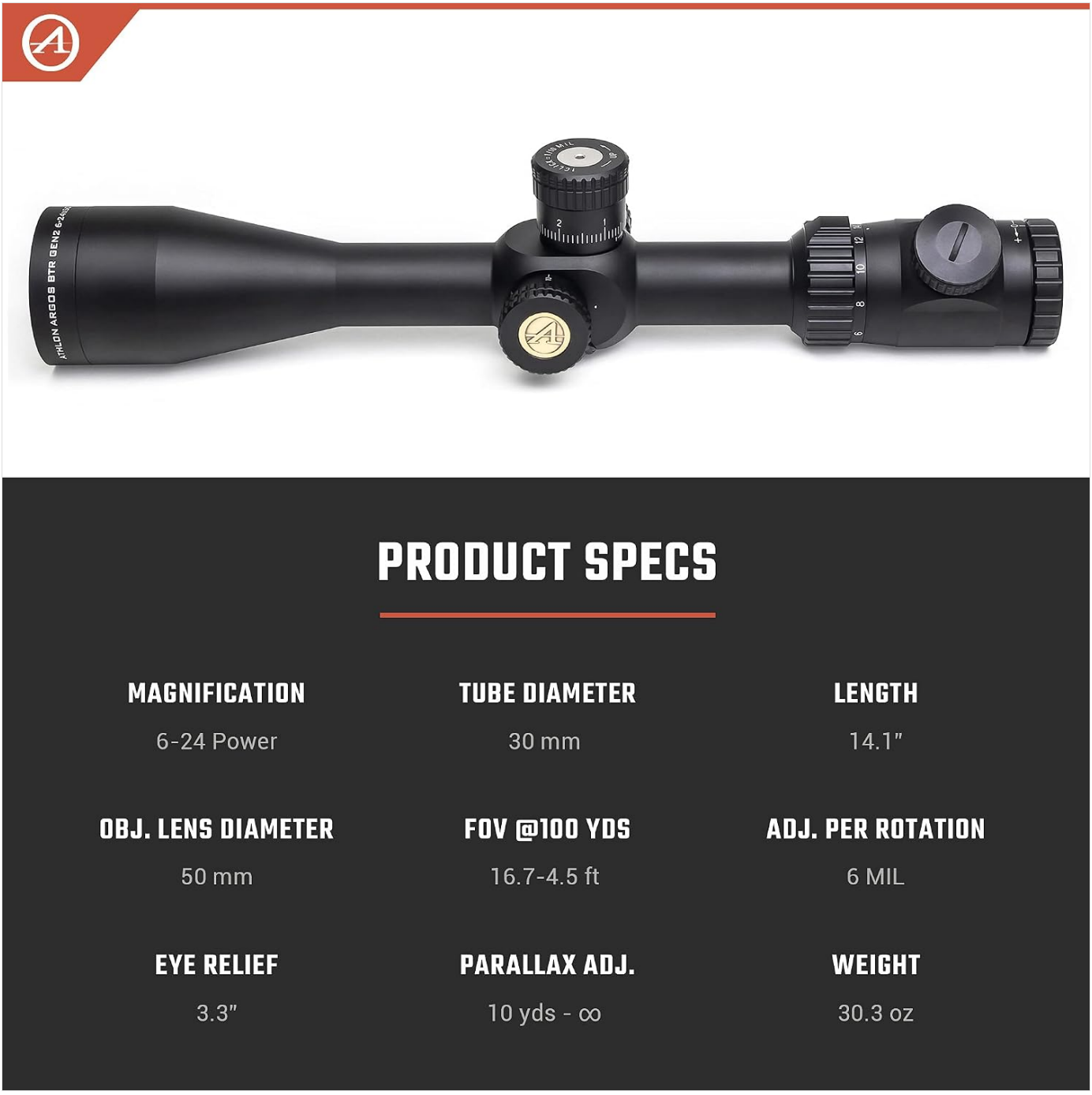


Image: A visual summary of key product specifications for the riflescope.

Warranty Information

Athlon Optics provides a lifetime warranty for their products. For detailed information regarding the warranty policy, coverage, and how to make a claim, please refer to the official Athlon Optics website or the warranty documentation included with your product.

Note: The warranty description states "See manufacturer". For the most current and complete warranty details, please visit the Athlon Optics Warranty Page.

Support and Contact Information

Should you require further assistance, have questions about your riflescope, or need to initiate a service request, please contact Athlon Optics directly.

- **Official Website:** For product information, FAQs, and support resources, visitathlonoptics.com.
- **User Manual (PDF):** A detailed PDF version of the user manual is available for downloadhere.

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