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Bushnell AR91424

Bushnell Optics Drop Zone Reticle Riflescope

User Manual

Introduction

The Bushnell Optics 1-4x 24mm Drop Zone Reticle Riflescope is engineered for maximum accuracy and reliability in various tactical scenarios. This riflescope embodies Bushnell's commitment to optical precision, rugged reliability, and uncompromising performance. It features target turrets for precise adjustments and a caliber-specific reticle designed to deliver peerless accuracy.
The scope incorporates fully multi-coated optics for exceptional brightness and a fast-focus eyepiece for quick target acquisition. It is designed to be zeroed at 100 yards, with aiming points extending out to 500 yards. Constructed from high-durability aluminum alloy, it is anodize-finished and sealed to protect internal components from environmental elements. The riflescope is nitrogen purged to prevent internal moisture and O-ring sealed to resist dust and moisture entry, ensuring long-lasting performance.

Key Features

- **30 Millimeter Tube Diameter:** Provides robust construction and compatibility with a wide range of mounting systems.
- **Drop Zone Reticle:** Specifically designed for mid-range precision, offering aiming points calibrated for 55 to 62 grain, .223 REM 5.56 loads out to 500 yards.
- **Fully Multi-Coated Optics:** Ensures incredible brightness and clarity across the entire field of view.
- **Fast Focus Eyepiece:** Allows for rapid and precise reticle focus, enhancing target acquisition speed.
- **Target Turrets (0.1 Mil Click Value):** Provides pinpoint precise adjustments for windage and elevation, allowing for accurate shot placement.
- **Durable Construction:** Made of high-durability aluminum alloy, anodize-finished, and sealed for rustproof and scratchproof performance.
- **Nitrogen Purged and O-Ring Sealed:** Prevents internal fogging and protects against moisture and dust ingress.



Figure 1: The Bushnell Optics Drop Zone Reticle Riflescope, showcasing its compact design and adjustment turrets.

Product Overview Video

▶ **Watch video online**
Product Summary Video

Video 1: A brief overview of the Bushnell Optics Drop Zone Reticle Riflescope, highlighting its 30mm tube diameter, fully multi-coated optics, fast focus eyepiece, Drop Zone reticle for mid-range precision, and target turrets for pinpoint adjustments.

Setup and Mounting

Proper mounting is crucial for optimal performance. This riflescope is designed for use with appropriate scope rings and bases. When selecting scope rings, be aware that the scope's erector cap assembly (located on the bottom of the scope windage and elevation control housing) may limit the possibility of using extra-low or low scope rings. Medium height rings are most commonly recommended to provide the necessary clearance with the scope base or receiver on most firearms. Always check the required clearance for your specific firearm before selecting and installing scope rings.

Installation Steps:

1. Ensure your firearm is unloaded and safe before beginning installation.
2. Attach the appropriate scope base to your firearm according to the manufacturer's instructions.
3. Secure the scope rings to the base, ensuring they are properly aligned.
4. Carefully place the riflescope into the lower halves of the rings.
5. Attach the upper halves of the rings and tighten the screws evenly, following the torque specifications provided by the ring manufacturer. Avoid over-tightening.
6. Adjust the scope's position for proper eye relief before final tightening.

Operating the Riflescope

Zeroing the Riflescope:

The Bushnell Drop Zone Reticle Riflescope is designed to be zeroed at 100 yards. Follow these steps for accurate zeroing:

1. Set up a target at 100 yards.
2. Fire a group of shots to determine the point of impact relative to your aiming point.
3. Use the target turrets to adjust for windage and elevation. Each click of the turret corresponds to 0.1 mil click value, allowing for precise adjustments to bring your point of impact to the desired location.
4. Repeat firing and adjusting until your shots consistently hit the bullseye at 100 yards.

Using the Drop Zone Reticle:

The Drop Zone 223 BDC ballistic reticle is calibrated for 55 to 62 grain, .223 REM 5.56 loads. Once zeroed at 100 yards, the reticle provides aiming points out to 500 yards, allowing for quick and accurate engagements at varying distances without manual turret adjustments for every shot.

Adjusting the Fast Focus Eyepiece:

To ensure a sharp reticle image, adjust the fast focus eyepiece. Point the scope at a clear, bright area (like the sky) and quickly glance through the eyepiece. Rotate the eyepiece until the reticle appears crisp and sharp. Avoid staring through the eyepiece for too long, as your eye may compensate for blurriness.



Figure 2: An individual demonstrating the use of a riflescope in the field, emphasizing proper aiming technique.

Maintenance and Care

To ensure the longevity and optimal performance of your Bushnell Riflescope, follow these maintenance guidelines:

- **Cleaning Lenses:** Use a soft, clean optical cloth or lens brush to remove dust and loose debris. For smudges or fingerprints, use a lens cleaning solution specifically designed for optics and apply it to the cloth, not directly to the lens.
- **Cleaning Body:** Wipe the riflescope body with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the anodized finish.
- **Storage:** Store the riflescope in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, consider using a desiccant packet to absorb moisture.
- **Protection:** Always use lens caps when the riflescope is not in use to protect the optical surfaces from scratches and dust.

- **Avoid Disassembly:** Do not attempt to disassemble the riflescope. Internal components are precisely calibrated and user disassembly will void the warranty.

Troubleshooting

If you encounter issues with your riflescope, consider the following common troubleshooting steps:

- **Blurry Image/Reticle:**
  - Ensure the fast focus eyepiece is correctly adjusted for your eye.
  - Check for dirt or smudges on the lenses and clean them as per maintenance instructions.
- **Difficulty Zeroing/Inconsistent Shots:**
  - Verify that the scope rings and base are securely mounted and tightened to the manufacturer's specifications. Loose mounts are a common cause of inaccuracy.
  - Ensure the barrel and action of your firearm are clean and in good condition.
  - Confirm that you are using consistent ammunition.
  - Check for any obstructions in the barrel or muzzle.
- **Fogging Inside the Scope:**
  - While the scope is nitrogen purged and O-ring sealed to prevent internal fogging, extreme temperature changes can sometimes cause temporary external condensation. Allow the scope to accilmate to the ambient temperature.
  - If internal fogging persists, it may indicate a seal compromise, and the unit should be serviced.

If these steps do not resolve the issue, please refer to the Warranty & Support section for further assistance.

Specifications

Feature	Detail
Brand	Bushnell
Model Name	AR91424
Magnification	1-4x
Objective Lens Diameter	24 Millimeters
Tube Diameter	30 Millimeter
Reticle Type	Drop Zone Reticle (.223 BDC)
Click Value	0.1 Mil
Eye Relief	3.5 Inches
Item Weight	1.06 Pounds
Product Dimensions (LxWxH)	9.4"L x 9.4"W x 4.7"H
Color	Matte Black
Country of Origin	China

Warranty and Support

Bushnell stands behind the quality and performance of its products. The Bushnell Optics Drop Zone Reticle Riflescope is covered by the Bushnell Lifetime Ironclad Warranty.

Bushnell Lifetime Ironclad Warranty:

All Bushnell products are engineered to deliver to your expectation and manufactured to withstand the rigors of the outdoors for the lifetime of the product. In the event that your product fails you, Bushnell will stand behind it and repair it at no cost to you. If they can't repair it, they will replace it with a product of equal or better value. No receipt is required, and the warranty is fully transferable.



Figure 3: The Bushnell Lifetime Ironclad Warranty logo, signifying comprehensive product coverage.

Customer Support:

For further assistance, technical support, or warranty claims, please visit the official Bushnell website or contact their customer service department. You can also find more information and products at the Bushnell Store on Amazon.

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