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Bushnell RP3120BS3

Bushnell RP3120BS3 Rifle Scope User Manual

Model: RP3120BS3

1. Introduction

Thank you for choosing the Bushnell RP3120BS3 Rifle Scope. This manual provides detailed instructions for the proper setup, operation, maintenance, and troubleshooting of your new rifle scope. Please read this manual thoroughly before using the product to ensure optimal performance and safety.
The Bushnell RP3120BS3 is designed for hunting applications, offering reliable performance and clear optics for target acquisition. It features a 3-12x magnification range and a 40mm objective lens, making it suitable for various hunting scenarios.

2. Safety Information

Always prioritize safety when handling firearms and optical equipment. Adhere to all local and national firearm safety regulations.

- Always ensure the firearm is unloaded and pointed in a safe direction before mounting or adjusting the scope.
- Wear appropriate eye and ear protection when shooting.
- Never look directly at the sun or any intense light source through the scope, as this can cause permanent eye damage.
- Keep the scope and its accessories out of reach of children.
- Handle the scope with care to prevent damage to optical components.

3. Product Components

Familiarize yourself with the main components of your Bushnell RP3120BS3 Rifle Scope.



Figure 3.1: Overview of the Bushnell RP3120BS3 Rifle Scope. This image displays the complete rifle scope from an angled perspective, highlighting its main body, objective lens, ocular lens, and adjustment turrets.



Figure 3.2: Top-down view of the Bushnell RP3120BS3 Rifle Scope. This perspective clearly shows the elevation and windage adjustment turrets, along with the magnification ring.

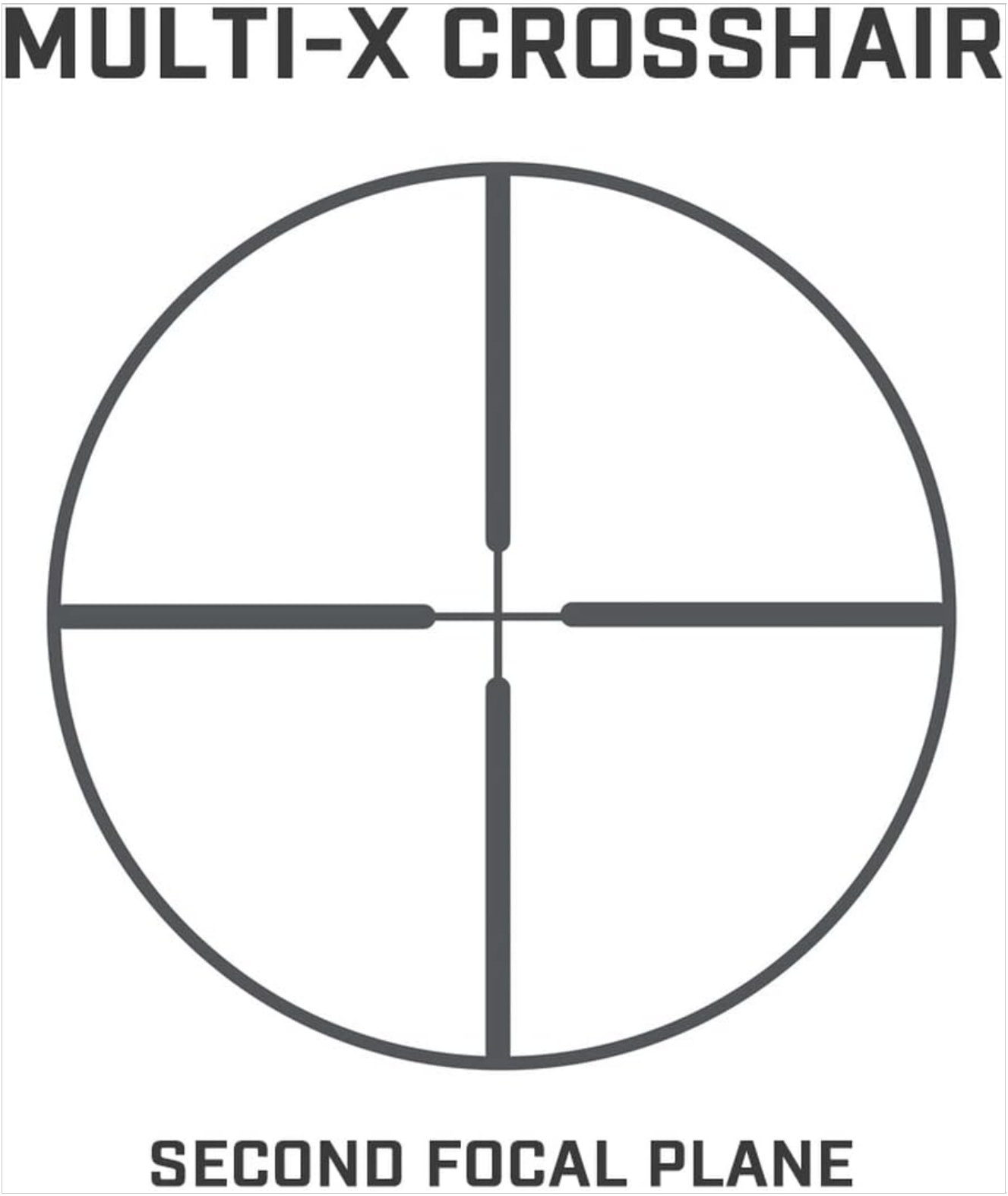

Figure 3.3: Diagram of the Multi-X Crosshair reticle. This illustration shows the simple and effective crosshair pattern used in the scope, indicating its second focal plane design.

Key Components:

- **Objective Lens:** The front lens that gathers light.
- **Ocular Lens/Eyepiece:** The rear lens through which you view the target.
- **Magnification Ring:** Adjusts the magnification level (3x to 12x).
- **Elevation Turret:** Adjusts the vertical point of impact.
- **Windage Turret:** Adjusts the horizontal point of impact.
- **Parallax Adjustment:** Knob on the side for parallax correction.

- **Reticle:** The aiming pattern visible through the scope (Multi-X Crosshair).

4. Setup and Mounting

Proper mounting is crucial for accuracy and consistent performance. The Bushnell RP3120BS3 uses a Weaver Mount type.

4.1 Mounting the Scope:

1. **Secure the Mount:** Attach appropriate Weaver-style rings (not included) to your rifle's Weaver base. Ensure they are tightened according to the ring manufacturer's specifications.
2. **Position the Scope:** Place the scope into the lower halves of the rings. Adjust the scope forward or backward to achieve proper eye relief. Eye relief for this model is approximately 3.5 inches.
3. **Level the Reticle:** Rotate the scope within the rings until the vertical crosshair is perfectly plumb with the rifle's bore. Use a scope leveling tool or a plumb bob for best results.
4. **Tighten Rings:** Once eye relief and reticle level are set, carefully tighten the top halves of the rings. Tighten screws evenly and incrementally to avoid stressing the scope tube. Refer to ring manufacturer's torque specifications.



Figure 4.1: Proper shooting posture with the Bushnell RP3120BS3 mounted on a rifle. This image demonstrates a user aiming a rifle equipped with the scope, illustrating typical usage and eye relief.

4.2 Focusing the Reticle:

To ensure a sharp reticle image, adjust the diopter on the ocular lens:

1. Point the scope at a plain, bright background (e.g., a clear sky or a blank wall).
2. Look through the scope and quickly glance away.
3. While looking away, quickly glance back and note if the reticle is sharp.
4. If not, rotate the diopter adjustment ring (the ring closest to your eye) slightly until the reticle appears crisp and clear instantly.

5. Repeat until the reticle is sharp without any eye strain.

5. Operating the Scope

5.1 Magnification Adjustment:

The magnification ring is located near the ocular lens. Rotate this ring to change the magnification from 3x (minimum) to 12x (maximum). The numbers on the ring indicate the current magnification setting.



Figure 5.1: Detailed view of the elevation and windage adjustment turrets on the Bushnell RP3120BS3. This image highlights the click adjustments and numerical markings for precise zeroing.

5.2 Windage and Elevation Adjustments:

The elevation turret (top) and windage turret (right side) are used to zero the scope to your rifle. Each click of the turret moves the point of impact by a specific amount, typically 1/4 MOA (Minute of Angle) or 1/4 inch at 100 yards.

- **Elevation:** To move the point of impact UP, turn the elevation turret counter-clockwise. To move it DOWN, turn clockwise.
- **Windage:** To move the point of impact RIGHT, turn the windage turret counter-clockwise. To move it LEFT, turn clockwise.

After zeroing, you can reset the turrets to "0" without affecting your zero. This allows for easy reference when making field adjustments.



Figure 5.2: The Bushnell RP3120BS3 scope showing the main adjustment turrets and additional caps. This image illustrates the scope's design with its various control points for precise aiming.

5.3 Parallax Adjustment (Side Focus):

The Bushnell RP3120BS3 features a side focus parallax adjustment knob. Parallax is the apparent shift in the reticle's position relative to the target when your eye moves slightly. To eliminate parallax:

1. While looking through the scope, rotate the side focus knob until the target and the reticle appear to be in the same focal plane and are both sharp.
2. Move your head slightly from side to side; if the reticle appears to move relative to the target, adjust the parallax knob further until no movement is observed.
3. The numbers on the parallax knob indicate approximate distances, but fine-tuning is often required.

6. Care and Maintenance

Proper care will ensure the longevity and performance of your Bushnell RP3120BS3 Rifle Scope.

6.1 Cleaning the Lenses:

- Use a soft lens brush or compressed air to remove dust and loose debris.
- Apply a few drops of lens cleaning fluid (specifically designed for optical lenses) to a clean microfiber lens cloth.
- Gently wipe the lens surface in a circular motion, starting from the center and moving outwards.
- Do not use harsh chemicals, paper towels, or clothing, as these can scratch the lens coatings.

6.2 Cleaning the Body:

- Wipe the scope body with a soft, damp cloth to remove dirt or smudges.
- Avoid using abrasive cleaners or solvents.

6.3 Storage:

- Store the scope 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.
- Keep lens caps on when not in use to protect the lenses.

7. Troubleshooting

This section addresses common issues you might encounter with your rifle scope.

Problem	Possible Cause	Solution
Blurred Image / Reticle	Improper diopter adjustment; dirty lenses; parallax not adjusted.	Adjust diopter (Section 4.2); Clean lenses (Section 6.1); Adjust parallax (Section 5.3).
Inconsistent Point of Impact	Loose mounting rings; damaged scope; inconsistent shooting technique.	Check and tighten mounting rings (Section 4.1); Contact Bushnell support if scope is damaged; Practice consistent shooting fundamentals.
Cannot Adjust Zero	Turrets are at their limit; internal damage.	Ensure turrets are not at their maximum travel; Contact Bushnell support.
Fogging Inside Lenses	Extreme temperature changes; seal compromise.	Allow scope to acclimate to temperature; If persistent, contact Bushnell support.

8. Specifications

Detailed technical specifications for the Bushnell RP3120BS3 Rifle Scope:

Feature	Specification
Model Name	RP3120BS3
Brand	Bushnell
Magnification Minimum	3x
Magnification Maximum	12x
Objective Lens Diameter	40 Millimeters
Eye Relief	3.5 Inches
Field Of View	29 Feet (at 100 yards)
Compatible Devices	Rifle
Mounting Type	Weaver Mount
Reticle Type	Multi-X Crosshair (Second Focal Plane)
Night Vision	No

Feature	Specification
Material	Blend
Item Weight	1 Pounds (approx. 0.45 kg)
Item Dimensions (LxWxH)	1 x 1 x 1 inches *(Note: This dimension may be a generic placeholder and not reflect the actual physical size of the scope.)*
Package Dimensions (LxWxH)	19.21 x 5.75 x 4.02 inches
Color	Multi
Suggested Users	Unisex-adult
UPC	029757005243
Date First Available	June 19, 2019

9. Warranty Information

The Bushnell RP3120BS3 Rifle Scope comes with a manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the official Bushnell website or contact Bushnell customer support directly. The product specifications indicate "Contact Manufacturer" for warranty description.
It is recommended to retain your proof of purchase for warranty claims.

10. Customer Support

For technical assistance, service, or parts inquiries, please contact Bushnell customer support.

- **Bushnell Official Website:** www.bushnell.com
- **Contact Information:** Please visit the "Support" or "Contact Us" section on the official Bushnell website for the most current phone numbers, email addresses, and service center locations.

When contacting support, please have your product model number (RP3120BS3) and serial number (if applicable) ready.

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