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FUJINON 25x150-MT

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Your guide to operating and maintaining your FUJINON 25x150-MT Binocular Telescope.

1. INTRODUCTION

Thank you for choosing the FUJINON 25x150-MT Weather Resistant Porro Prism Binocular Telescope. This high-quality optical instrument is designed for exceptional viewing of distant objects, including celestial bodies and terrestrial landscapes. Part of the esteemed LB150 Series, it is renowned for its superior nighttime light gathering capabilities and robust construction. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your binocular telescope to ensure optimal performance and longevity.



Image: The FUJINON 25x150-MT Binocular Telescope, showcasing its elongated, twin-barrel design and silver-grey finish. This model is built for durability and high-magnification viewing.

2. SAFETY INFORMATION

Please read and understand all safety precautions before using your binocular telescope. Failure to do so may result in injury or damage to the instrument.

- **Do Not Look Directly at the Sun:** Never look directly at the sun through the binocular telescope or with the naked eye. This can cause severe and permanent eye damage, including blindness.

- **Handle with Care:** This instrument is heavy. Always ensure a secure grip when handling and mounting to prevent drops and injury.
- **Mounting Stability:** Due to its size and weight, this binocular telescope requires a robust and stable mount (not included) for safe and effective use. Ensure the mount is properly secured and capable of supporting the instrument's weight.
- **Avoid Extreme Temperatures:** Do not expose the binocular telescope to extreme temperatures or rapid temperature changes, which can affect optical performance and material integrity.
- **Keep Out of Reach of Children:** This is not a toy. Keep the instrument and its accessories out of reach of small children.

3. SETUP

3.1 Unpacking

1. Carefully open the packaging and remove the binocular telescope and any accessories.
2. Inspect the instrument for any signs of damage during shipping. If damage is found, contact your retailer immediately.
3. Retain the original packaging for future storage or transport.

3.2 Mounting

The FUJINON 25x150-MT is a large and heavy instrument designed for use with a dedicated, heavy-duty mount (not included). It is crucial to use a mount capable of supporting its weight (approximately 60.6 pounds or 27.5 kg) and providing stable viewing.

- Attach the binocular telescope securely to your chosen mount according to the mount's instructions. Ensure all fasteners are tightened appropriately to prevent movement or accidental detachment.
- Verify the mount's stability on a level surface before use.

4. OPERATING

4.1 Adjusting Interpupillary Distance (IPD)

The interpupillary distance is the distance between the centers of your pupils. Correct IPD adjustment is essential for comfortable viewing and to see a single, circular field of view.

- While looking through the eyepieces, gently pivot the two halves of the binocular telescope on its central hinge until you see a single, clear circular image.

4.2 Focusing

The 25x150-MT features individual eyepiece focusing for precise adjustment.

1. Choose a distant object to focus on.

2. Close your right eye and rotate the left eyepiece's diopter ring until the image in your left eye is sharp.
3. Close your left eye and rotate the right eyepiece's diopter ring until the image in your right eye is sharp.
4. With both eyes open, the image should now be perfectly focused.

4.3 Viewing

With its 25x magnification and 150mm objective lenses, this binocular telescope is ideal for:

- **Astronomical Observation:** Observe the moon, planets, star clusters, and nebulae with exceptional brightness and detail, especially in low-light conditions.
- **Terrestrial Observation:** View distant landscapes, wildlife, and marine activity with clarity.

The 2.7-degree angle of view provides a wide field of vision, enhancing the viewing experience for both static and moving targets.

4.4 Weather Resistance

The FUJINON 25x150-MT is designed with weather-resistant features, making it suitable for use in various outdoor conditions. While it can withstand light rain and moisture, it is not fully waterproof and should not be submerged. Always protect the optics from direct exposure to heavy rain or excessive moisture when possible.

5. MAINTENANCE

5.1 Cleaning Lenses

Proper lens cleaning is crucial to maintain optical performance. Always use caution to avoid scratching the lens coatings.

1. Gently brush away any loose dust or debris from the lens surfaces using a soft lens brush or a can of compressed air (held upright to prevent propellant discharge).
2. For smudges or fingerprints, apply a small amount of specialized optical lens cleaning fluid to a clean, soft microfiber cloth.
3. Wipe the lens surface gently in a circular motion from the center outwards. Do not apply excessive pressure.
4. Never use abrasive cloths, paper towels, or household cleaners, as these can damage the lens coatings.

5.2 Storage

- Store the binocular telescope in a cool, dry place, away from direct sunlight and high humidity.
- Use the provided lens caps to protect the objective lenses and eyepieces when not in use.
- If storing for extended periods, consider placing desiccant packets (e.g., silica gel) in the storage case to absorb moisture.

5.3 General Care

- Avoid dropping or subjecting the instrument to severe shocks.
- Do not attempt to disassemble the binocular telescope. This will void the warranty and may cause irreparable damage.
- Regularly check all screws and connections on your mount to ensure they remain tight.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Improper focusing; eyepieces not adjusted correctly.	Re-adjust individual eyepiece focus as described in Section 4.2. Ensure IPD is correctly set.
Two overlapping images or difficulty merging images.	Interpupillary distance (IPD) is not correctly set.	Adjust the hinge until a single, circular field of view is achieved (Section 4.1).
Dark spots or dust visible in the field of view.	Dust on lenses or internal optics.	Clean external lenses as per Section 5.1. If spots persist, they may be internal; do not attempt to disassemble. Contact support.
Image appears dim or lacks contrast.	Dirty lenses; poor viewing conditions (e.g., heavy fog, light pollution).	Clean lenses thoroughly. Move to an area with less light pollution or wait for clearer weather conditions.

7. SPECIFICATIONS

Feature	Detail
Model Name	25x150-MT
Magnification	25x
Objective Lens Diameter	150 Millimeters
Angle of View	2.7 Degrees
Special Feature	Weather Resistant
Material	Metal
Color	Silver
Item Weight	60.6 Pounds (approx. 27.5 kg)
Manufacturer Part Number	7125152
ASIN	B0048JITXY
Specific Uses	Bird Watching, Star Gazing

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation provided with your purchase or visit the official FUJINON website. Warranty terms and conditions may vary by region and retailer.

If you encounter issues not covered in the troubleshooting section or require further assistance, please contact FUJINON customer support through their official channels. When contacting support, please have your model number (25x150-MT) and serial number (if applicable) ready.