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› Meade Instruments 607015 MWA 5mm 1.25-Inch Eyepiece User Manual

MEADE 607015

Meade Instruments 607015 MWA 5mm 1.25-Inch Eyepiece User Manual

Model: 607015

INTRODUCTION

This manual provides essential instructions for the proper use, setup, maintenance, and troubleshooting of your Meade Instruments 607015 MWA 5mm 1.25-Inch Eyepiece. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



Image: Meade Instruments MWA 5mm 1.25-Inch Eyepiece, showing the brand logo and "MWA 5mm 100° AFOV" markings.

SAFETY INFORMATION

- **Never look directly at the sun through the eyepiece or telescope without proper solar filters.** Permanent eye damage or blindness can result.
- Handle the eyepiece with clean hands to avoid smudges on optical surfaces.
- Store the eyepiece in its protective case when not in use to prevent dust and damage.
- Keep out of reach of children without adult supervision.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Meade Instruments 607015 MWA 5mm 1.25-Inch Eyepiece
- Protective caps (top and bottom)
- Protective storage case

Note: The product data indicated "telescope" as a package content, but for an eyepiece, the typical contents are the eyepiece itself and protective accessories.

SETUP

1. **Unpack the Eyepiece:** Carefully remove the eyepiece from its protective packaging and remove both top and bottom protective caps.
2. **Insert into Focuser:** Slide the 1.25-inch barrel of the eyepiece into the focuser of your telescope. Ensure the focuser's set screw is loosened sufficiently.
3. **Secure the Eyepiece:** Gently tighten the focuser's set screw until the eyepiece is held firmly in place. Do not overtighten, as this can damage the eyepiece barrel.
4. **Adjust Eyecup:** The MWA eyepiece features a folding eyecup. Adjust it to a comfortable height for your viewing preference. For eyeglass wearers, it is generally recommended to fold the eyecup down.





Image: Meade Instruments MWA 5mm 1.25-Inch Eyepiece with its folding eyecup extended, ready for use.

OPERATING

Once the eyepiece is securely installed in your telescope's focuser, you are ready to begin observing.

1. **Focusing:** Use your telescope's focuser knob to bring the celestial object into sharp focus. The 5mm focal length provides high magnification, which requires precise focusing.
2. **Field of View:** This eyepiece offers a wide 100-degree apparent field of view (AFOV). Move your eye slightly to explore the entire field.

3. **Eye Relief:** Position your eye at a comfortable distance from the eyepiece lens. Adjust the folding eyecup as needed to block stray light and achieve optimal viewing.
4. **Observing Conditions:** High magnification eyepieces like the 5mm MWA perform best under stable atmospheric conditions (good "seeing"). On nights with turbulent air, images may appear less steady.



Image: Meade Instruments MWA 5mm 1.25-Inch Eyepiece shown horizontally, highlighting its robust construction.

MAINTENANCE

- **Cleaning Lenses:** Use a soft, clean lens brush to remove loose dust. For smudges or fingerprints, use a specialized optical cleaning solution and a microfiber lens cloth. Apply solution to the cloth, not directly to the lens.
- **Cleaning Barrel:** The metal barrel can be wiped with a clean, soft cloth. Avoid using abrasive cleaners.
- **Storage:** Always replace the protective caps after use and store the eyepiece in its original case or a dedicated eyepiece case to protect it from dust, moisture, and impacts.
- **Avoid Extreme Temperatures:** Do not expose the eyepiece to extreme hot or cold temperatures for extended periods.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Incorrect focuser adjustment.	Adjust the telescope's focuser slowly until the image is sharp.
Dark edges or vignetting in the view.	Eye not centered or too far/close to the eyepiece.	Adjust your eye position relative to the eyepiece. Ensure the eyecup is set correctly.
Dust or smudges visible in the field of view.	Dirty eyepiece lenses.	Clean the eyepiece lenses carefully as described in the Maintenance section.
Poor image quality (unsteady, shimmering).	Poor atmospheric seeing conditions.	This is an environmental factor. Wait for more stable atmospheric conditions. Allow telescope to cool to ambient temperature.

SPECIFICATIONS

Feature	Detail
Model Number	607015
Focal Length	5mm
Apparent Field of View (AFOV)	100 Degrees
Barrel Size	1.25-Inch
Optical Design	9 element
Lens Coating	Fully Multi-Coated
Eyecup Type	Folding
Product Dimensions	2.2 x 2.2 x 4.7 inches
Item Weight	11.2 ounces
Manufacturer	Meade

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Meade Instruments website. Contact their customer service for assistance with product issues or inquiries.
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