

Tele Vue EN6-13.0

Tele Vue Nagler Type 6 13mm Ultra Wide Field 1.25" Eyepiece Instruction Manual

Model: EN6-13.0

1. INTRODUCTION

The Tele Vue Nagler Type 6 13mm Ultra Wide Field 1.25" Eyepiece is a precision optical instrument designed to enhance your astronomical observations. This eyepiece features a compact 7-element design, incorporating exotic glasses and advanced coating processes to deliver sharp, pinpoint views across an 82-degree apparent field of view. It is engineered for optimal contrast with blackened lens edges, anti-reflection threads, and rubber eyeguards. This manual provides essential information for the proper use and care of your eyepiece.



Figure 1: Tele Vue Nagler Type 6 13mm Ultra Wide Field 1.25" Eyepiece. This image shows the eyepiece with its black rubber eyeguard, textured grip, and silver barrel, clearly labeled "13mm Nagler Type 6".

2. SETUP AND INSTALLATION

1. **Unpacking:** Carefully remove the eyepiece from its packaging. Inspect for any visible damage.
2. **Removing Dust Caps:** Remove the protective dust caps from both ends of the eyepiece.
3. **Inserting into Focuser:** Gently slide the 1.25" barrel of the eyepiece into the focuser of your telescope. Ensure it is fully seated.
4. **Securing the Eyepiece:** Tighten the thumbscrew(s) on your telescope's focuser to secure the eyepiece in place. Do not overtighten, as this can damage the eyepiece barrel.
5. **Adjusting Eyeguard:** The rubber eyeguard can be folded down for users wearing eyeglasses or adjusted for comfortable viewing.

3. OPERATING INSTRUCTIONS

Using your Tele Vue Nagler Type 6 13mm eyepiece is straightforward. Follow these steps for optimal viewing:

1. **Focusing:** Once the eyepiece is installed, use your telescope's focuser knob to bring celestial objects into sharp focus. Due to the wide field of view, minor adjustments may be needed to achieve critical focus across the entire field.
2. **Eye Relief:** This eyepiece offers 12mm of eye relief. Position your eye at a comfortable distance from the top lens to see the full 82-degree apparent field of view. Adjust the rubber eyeguard as needed.
3. **Observing:** The 13mm focal length provides a versatile magnification, suitable for a wide range of deep-sky objects and planetary observations, depending on your telescope's focal length. The ultra-wide field allows for immersive views.
4. **Contrast:** The eyepiece's design, with blackened lens edges and anti-reflection threads, maximizes contrast. Avoid introducing stray light into the eyepiece during observation.

4. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and performance of your eyepiece.

- **Cleaning Lenses:**
 - Use a soft brush or compressed air to remove loose dust particles.
 - For smudges or fingerprints, apply a small amount of optical cleaning fluid to a clean, lint-free microfiber cloth. Gently wipe the lens surface in a circular motion from the center outwards.
 - Never touch the lens surfaces with your fingers.
- **Cleaning Body:** Wipe the metal and rubber parts with a clean, damp cloth. Avoid harsh chemicals.
- **Storage:** When not in use, always replace the dust caps on both ends of the eyepiece. Store the

eyepiece in a clean, dry environment, preferably in its original case or a padded container, away from extreme temperatures and humidity.

- **Avoid Disassembly:** Do not attempt to disassemble the eyepiece. This can void the warranty and introduce dust or damage to the internal optical elements.

5. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|-------------------------------|--|--|
| Blurry or out-of-focus image | Incorrect focuser adjustment. | Adjust the telescope's focuser until the image is sharp. |
| Dark spots or dust on view | Dust on eyepiece lenses or telescope optics. | Carefully clean the eyepiece lenses as described in Section 4. Check telescope optics for dust. |
| Limited field of view | Eye too far from the eyepiece (insufficient eye relief). | Adjust your eye position closer to the eyepiece. Fold down the rubber eyeguard if wearing glasses. |
| Eyepiece not fitting securely | Focuser thumbscrew not tightened. | Ensure the focuser thumbscrew is tightened sufficiently to hold the eyepiece. |

6. SPECIFICATIONS

Model: EN6-13.0

Focal Length: 13mm

Apparent Field of View: 82 degrees

Barrel Size: 1.25 inches

Eye Relief: 12mm

Design: 7-element

Product Dimensions: 4.6 x 2.3 x 2.1 inches

Item Weight: 0.8 ounces

Manufacturer: Tele Vue

7. WARRANTY AND SUPPORT

For detailed information regarding warranty coverage, product support, or service inquiries for your Tele Vue Nagler Type 6 13mm Eyepiece, please refer to the official Tele Vue Optics website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Tele Vue Official Website: www.televue.com