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## **8mm ETHOS EYEPIECE INSTRUCTIONS**



*Warning: Do not unscrew any sections of the eyepiece, as the lenses may fall out, thereby voiding the warranty.*

### **Tele Vue 8mm ETHOS Specifications:**

Apparent Field:	100°
Focal length:	8mm
Effective Field Stop:	13.9mm
Eye Relief:	15mm (accepts Tele Vue's Dioptix astigmatism corrector)
Barrel Diameter	53.3mm (ideal for binocular viewer applications)
Parfocal	with Tele Vue 1¼" eyepieces
Barrel Size:	2" / 1¼"
Weight:	0.95 lbs.

Thank you for purchasing the Tele Vue 8mm ETHOS, which fits both 2" and 1¼" focusers or diagonals. Typically, in 2" mode, you will focus "out" about ¾" further than a 26mm Nagler Type 5, and in 1¼" mode, if you use Tele Vue's "high-hat" 2"-1¼" adapter, it will be parfocal with Tele Vue's Plössls, Radians, Type 6 Naglers, Nagler Zooms and 1¼" Panoptics.

Since it is designed as an 1¼" eyepiece, there is NO optical benefit by using a 2" holder. The 2" barrel is included just for convenience, but it is also threaded to accept our 2" extension tube (EBX-2120), which allows the use of 48mm filters.

### **For 1¼" holders:**

- 1) Back off the lock screw in the 2" barrel section of the eyepiece so it can be fully inserted into the holder.
- 2) If the holder has a lock screw, rotate the eyepiece so that the screw slips into the slot in the 2" section of the eyepiece barrel. Your holder lock screw clamps to the 1¼" barrel of the eyepiece, while the eyepiece lock screw clamps to the outside of your holder for maximum safety.
- 3) If your holder doesn't have a lock screw, be sure to clamp the eyepiece lock screw onto the outside of the holder. Please note that this eyepiece is heavy, and can fall out of holders with a "slip fit" unless the lock screw is used!

### **For 2" holders:**

- 1) Remove the eyepiece lock screw (Don't lose it!)
- 2) Use the lock screw on your 2" holder, being careful not to let it slip into the slot in the 2" barrel of the eyepiece.
- 3) The eyepiece will not "bottom" on Tele Vue 2" diagonals. Be careful if using diagonals by other manufacturers.

### **For Newtonians/Dobsonians:**

We recommend our Paracorr coma corrector to eliminate the mirror coma in f/5.5 or faster scopes. This permits the same kind of full field sharpness routinely seen in Tele Vue's NP-Series refractors. See your Paracorr instruction sheet for proper setting.

Note: when using a 1¼" filter in the 8mm ETHOS, be careful not to accidentally set the Paracorr's tunable top to its lowest setting, as the bottom of the filter might contact the Paracorr's upper lens. It's best to thread a 2" filter onto the front of the Paracorr, or add our 2" extension tube (EBX-2120) to the 2" barrel of the 8mm ETHOS.

For higher magnifications with a 100° field, use Tele Vue Barlows and Powermates. When using the 8mm ETHOS in 2" Powermates, use its 2" barrel.

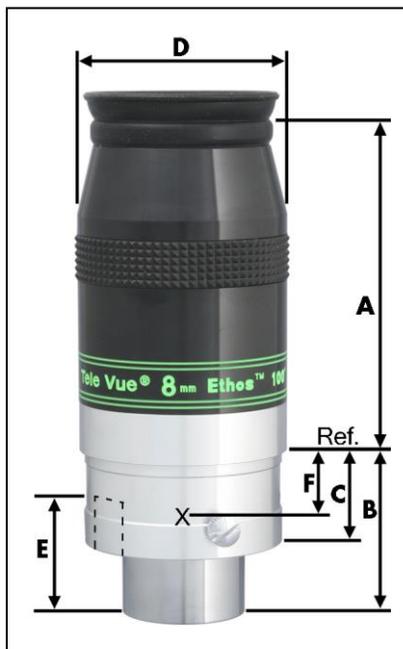
Note: As with the Paracorr, do not use a 1¼" filter when using a 2x Powermate, as it will contact the upper lens in the 2X Powermate. Again, the best solution is to use 2" filters in front of the Powermate.

If you have eyesight astigmatism, you can add Tele Vue's Dioptix Astigmatism Corrector to ETHOS, instead of using eyeglasses, to get the sharpest view possible (check dioptix.com for more details).

We wish you years of exciting viewing with the 8mm ETHOS, and we welcome comments on your personal experiences.

Here's a summary of performance with Tele Vue scopes:

Telescope	Magnification (x)	True Field (°)	Exit pupil (mm)
TV-60, TV-60is	45.0x	2.21	1.33
TV-76	60.0x	1.66	1.27
NP-101, NP-101is	67.5x	1.47	1.48
TV-85	75.0x	1.33	1.14
NP-127is	82.5x	1.21	1.54
TV-102, TV-102iis	110.0x	0.91	0.93



#### Approximate dimensions of 8mm ETHOS

- A. Length of barrel above reference surface (3.3")*
- B. Overall length below reference surface (1.7")*
- C. Length of 2" barrel (0.94")*
- D. Diameter of black barrel (2.1")*
- E. Depth of 1¼" barrel (1.2")*
- F. Approx. location of field stop (0.7")*

Reference surface is location of 2" barrel seat