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## **10mm ETHOS EYEPIECE INSTRUCTIONS**



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

### **Tele Vue 10mm ETHOS Specifications:**

Apparent Field:	100°
Focal length:	10mm
Effective Field Stop:	17.7mm
Eye Relief:	15mm (accepts Tele Vue's Dioptix astigmatism corrector)
Barrel Size:	2" / 1¼"
Weight:	1.1 lbs.

Thank you for purchasing the Tele Vue 10mm ETHOS, which nicely fills the focal length gap between 8mm and 13mm models. It also becomes the centerpiece of a great 6mm, 10mm and 17mm ETHOS set.

The 10mm ETHOS fits both 2" and 1¼" focusers or diagonals. Typically, in a 2" focuser, you will focus "out" a bit (about 3/8" further than a 26mm Nagler Type 5), and in a 1¼" focuser, you'll focus "in" about ½" inch further than a 25mm Plössl.

The 10mm is parfocal with the 13mm ETHOS.

Note: the in-travel may prevent focusing in some refractors when using the Tele Vue 60° Everbrite diagonal, which has an unusually long optical path.

Since it is designed as a 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 EBX-2120 2" extension tube, which allows the use of 48mm filters.

Its 59mm rubber grip diameter makes this model usable in binocular viewers -- for most people.

### **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 (if desired) 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 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 EBX-2120 2" extension tube to the 2" barrel of ETHOS, for general use. For higher magnifications with a 100° field, use Tele Vue Barlows and Powermates. When using 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 [dioptrx.com](http://dioptrx.com) for more details).

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

Telescope	Magnification (x)	True Field (°)	Exit pupil (mm)
TV-60, TV-60is	36.0	2.82	1.67
TV-76	48.0	2.11	1.59
NP-101, NP-101is	54.0	1.88	1.85
TV-85	60.0	1.69	1.43
NP-127is	66.0	1.54	1.92
TV-102, TV-102iis	88.0	1.15	1.16



### Approximate dimensions of 10mm ETHOS

- A. Length of barrel above reference surface (3.8")**
- B. Overall length below reference surface (1.6")**
- C. Length of 2" barrel (1.1")**
- D. Diameter of black barrel (2.3")**
- E. Depth of 1¼" barrel (1.1")**
- F. Approx. location of field stop (0.27")**

Reference surface is location of 2" barrel seat