

VISUAL PARACORR INSTRUCTIONS

BACKGROUND

All Newtonian/Dobsonian telescopes can benefit from using a Tele Vue Paracorr (Parabola Corrector) to eliminate coma in the image. Coma is the effect that makes off-center stars appear like little comets (it becomes more apparent as stars move closer to the edge of the field). Any Newtonian/Dobsonian telescope will benefit from the use of Paracorr, but those from f/3.5 to f/5.0 will see the greatest results. For example, the size of the diffraction-limited field expands by an incredible 36 times in area for an f/4.5 mirror! Stars at the edge of the field will improve so dramatically, that (using top-notch Tele Vue eyepieces) the image will look the same anywhere in the field. It also prevents faint stars from disappearing at the edge of the eyepiece field. This is not only aesthetically pleasing, but it also greatly reduces the need to constantly nudge the scope to keep the object centered in the "sweet spot." Paracorr essentially makes an f/4 scope perform like an f/8. Just insert it into your 2" focuser like a 2" Barlow (it has a 15% [1.15x] magnification factor) and add Tele Vue eyepieces to suit your needs. It's a recipe for perfection, when you use Tele Vue eyepieces.



This model Paracorr has the largest lenses possible to prevent any vignetting, even when using the 31mm Nagler Type 5. The tunable top permits positioning all Tele Vue eyepieces for optimum performance (see eyepiece position chart below).

INSTALLATION

Paracorr simply slips into your focuser like a 2" Barlow. Depending on eyepiece type and setting, you will need just 3/8" to 3/4" focuser in-travel compared to using the eyepiece alone.

USE

For 2" Eyepieces:

- 1) Make sure eyepiece lock screws (A) are loosened
- 2) Slip 2" eyepiece into the Paracorr
- 3) Tighten eyepiece lock screws (A)
- 4) To adjust for eyepiece position,
 - a. Slightly loosen the height adjustment lock knob (B) that clamps on the slot.
 - b. Rotate the outer barrel to adjust the height of the eyepiece, following the guidelines in the eyepiece position chart below.
 - c. Tighten the height adjustment lock knob (B).

For 1 1/4" Eyepieces:

- 1) Slip the 2" to 1 1/4" reducing adapter into the Tunable Top and tighten lock screws (A).
- 2) Place the eyepiece in the adapter and tighten the lock screw (C)
- 3) Follow the adjustment procedures outlined above in step 4.

NOTE: Focus the telescope after properly setting the eyepiece position. Do not accidentally use the tuning feature for focussing.

The easiest method for finding optimal correction for other brand eyepieces is to first establish the focus position with a Tele Vue eyepiece at its known Paracorr setting. Then insert your other eyepiece and use the tunable top until focus has been reached. Note the mark on the Paracorr body for the setting. Use your telescope focuser to tweak the focus if necessary.

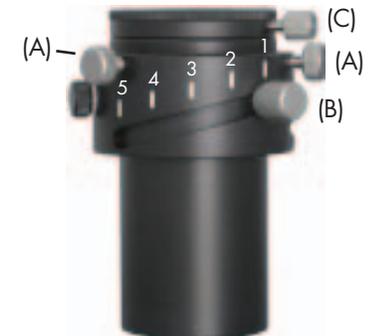
CAUTION: Avoid using 1 1/4" Barlows unless you are certain the barrel will not contact the Paracorr lens.

However, you can use the 1 1/4" Powermates safely in the 1 1/4" adapter. Place 2" Powermates

Note: Guide Screws shown have been replaced by stainless steel button head screws with tension preset during assembly. No need to adjust.

2" Eyepiece/Adapter
Lock Screws (A)

Tunable Top
Lock Knob (B)



EYEPIECE POSITION CHART

Set at mark 1	Set at mark 3	Set at mark 4	Set at mark 5	Set at mark 5
2" Eyepieces	2" Eyepieces	1 1/4" Eyepieces	2" Eyepieces	1 1/4" Eyepieces
20mm Nagler Type 2	26mm Nagler Type 5	All Radians	31mm Nagler Type 5	16mm Nagler Type 2**
20mm Nagler Type 5	17mm Nagler Type 4	All Plössls through 32mm	22mm Nagler Type 4	12mm Nagler Type 2**
13mm Nagler* (original)		All 1 1/4" only Naglers (original, Type 5 & Type 6)	17 & 21mm Ethos	12mm Nagler Type 4**
22mm*, 27mm, 35mm, & 41mm Panoptic		15mm, 19mm & 24mm Panoptics		9mm Nagler** (original)
10 & 13mm Ethos		3.7, 6 & 8mm Ethos** All Tele Vue Zooms		10 & 13mm Ethos***

* Use only in 2" mode as listed for best correction.

** Use only in 1 1/4" mode as listed for best correction.

*** For best correction use with the Tele Vue Hi-Hat 2" to 1 1/4" adapter