

DeLite™ EYEPIECE INSTRUCTIONS

Thank you for purchasing a Tele Vue DeLite eyepiece. Each DeLite model features 20mm of eye relief along with a 62° apparent field. Based on our Delos design experience, we were able to keep the size and weight down, while achieving the best sharpness, linearity (freedom from pincushion distortion) and ghost suppression over the entire field for any speed (f/#) telescope.

Your new DeLite eyepiece is designed for optimum viewing whether or not you wear eyeglasses. Our unique, new, adjustable, locking eyeguard housing allows for full eye relief for eyeglass wearers in the down position. Pulling the housing up will permit setting of the eyeguard height allowing for an ideal match between your eye and telescope pupils. With this much eye relief available, it is important to learn your own optimum position.

If you don't wear eyeglasses, start with the eyeguard housing pulled out all the way. To do so, grasp the upper rubber grip ring with one hand. With the other hand, grasp the lower grip and rotate to the left to loosen the assembly. Slide the eyeguard to the fully extended position. While looking through the eyepiece, slide the eyeguard down the barrel until you just see the full field with your peripheral vision. Note your eyeguard height using the green indicator lines engraved on the inner barrel. You may leave the eyeguard loose or lock its position by again grasping the grip rings in each hand and this time rotating the lower grip ring to the right. You will also find that this system minimizes extraneous outside light, giving you the highest contrast for those "faint fuzzies". The generous 20mm of eye relief also minimizes eye lens fogging due to eye moisture in cold weather.

This eyepiece is ideal for using the Tele Vue DIOPTRX™ to compensate for eyesight astigmatism. See reverse of page for details.

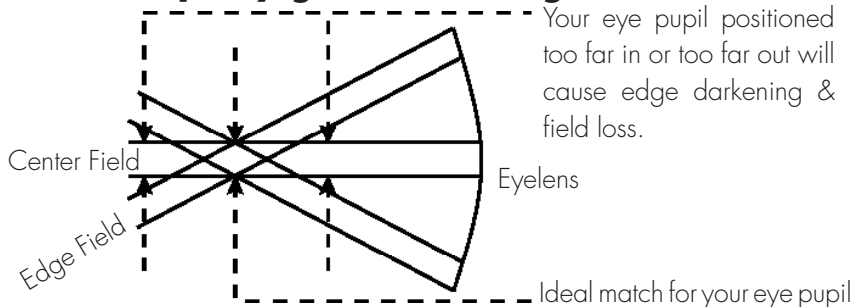
DeLite effective field stop diameters:

DeLite	EFS (mm)	DeLite	EFS (mm)	DeLite	EFS (mm)
18.2mm	19.1	11mm	11.7	5mm	5.3
15mm	16.0	9mm	9.6	4mm	4.3
13mm	13.8	7mm	7.5	3mm	3.2

To determine the true field in degrees for an eyepiece on any given telescope, simply divide the field stop diameter of the eyepiece by the focal length of the telescope (in mm) and multiply the result by 57.3 degrees (a radian).

Warning: to avoid getting dust and dirt into the eyepiece, do not unscrew the chrome barrel.

Proper Eyeguard Positioning



The eyeguard housing is made of two pieces. To loosen and move it, grasp a grip ring with each hand and twist the lower grip ring to the left. When the eyeguard is sufficiently loose you can slide it up the barrel. To tighten, again grasp both grip rings and twist the lower portion of the eyeguard housing to the right.



Your telescope's focuser is used to compensate for your near- or far-sightedness; DIOPTRX™ compensates for your astigmatism. These units attach and lock onto the tops of over 20 long eye-relief Tele Vue eyepieces to achieve the sharpest full-field viewing possible. DIOPTRX™ models are available in ¼ to 3½ diopter (¼ steps from ¼ to 2½ diopters, then ½ diopter steps to 3½-diopters), and are rotatable for tuning to the best orientation. A series of engraved letters on the barrel helps to monitor orientation. Simply choose the DIOPTRX™ model that matches your eyeglass prescription for astigmatism. All lenses are multi-coated glass in anodized aluminum housings with rubber eyeguards.



Benefits of using DioptRx over eyeglasses

1. You're more likely to see a sharper, higher contrast image, because:
 - A. The DioptRx is always completely aligned to the eyepiece optics, eliminating aberrations from a decentered mismatch of eyeglass power and astigmatic axis.
 - B. DioptRx can be rotated to exactly compensate for the astigmatic axis angle in real time, since both head angle and age can vary your eyesight astigmatic angle.
 - C. DioptRx likely has better multi-coatings than eyeglasses, and certainly is better in transmission and reflection reduction than uncoated eyeglass.
 - D. DioptRx is more likely to be cleaner than eyeglasses, which may have scratches and smudges from constant use and wear and tear.
 - E. DioptRx allows seeing your normal maximum contrast that eyeglasses can diminish (remove your eyeglasses and see how contrast improves in normal vision).
2. You're more likely to see the full field in 100° Ethos eyepieces because your eyeglasses are more limiting in "effective eye-relief".

Tele Vue DioptRx™, Your Prescription for Better Viewing

When attached to any of the following long eye relief Tele Vue eyepieces, DIOPTRX™ compensates for your eyesight astigmatism. Most of these eyepieces have long eye relief for eyeglass wearers, so simply adding DIOPTRX™ to replace your eyeglasses should leave you with comfortable eye relief. DIOPTRX™ corrects astigmatism only, since focusing compensates for your power correction.

DeLite	all
Delos	all
Plössl	55, 40, 32mm
Panoptic	41, 35, 27, 24*, 22, 19*mm
Nagler Type 4	all
Nagler Type 5	31, 26, 20*mm
Nagler Type 6	all*
Ethos	all
*Indicated eyepieces require DEA or DNA adapters.	

	<table style="margin: auto;"> <tr> <th style="text-align: left;">DIOPTRX™ product code</th> <th style="text-align: left;">Astigmatism correction (in diopters)</th> </tr> <tr><td>DRX-0025</td><td>0.25</td></tr> <tr><td>DRX-0050</td><td>0.50</td></tr> <tr><td>DRX-0075</td><td>0.75</td></tr> <tr><td>DRX-0100</td><td>1.00</td></tr> <tr><td>DRX-0125</td><td>1.25</td></tr> <tr><td>DRX-0150</td><td>1.50</td></tr> <tr><td>DRX-0175</td><td>1.75</td></tr> <tr><td>DRX-0200</td><td>2.00</td></tr> <tr><td>DRX-0225</td><td>2.25</td></tr> <tr><td>DRX-0250</td><td>2.50</td></tr> <tr><td>DRX-0300</td><td>3.00</td></tr> <tr><td>DRX-0350</td><td>3.50</td></tr> </table>	DIOPTRX™ product code	Astigmatism correction (in diopters)	DRX-0025	0.25	DRX-0050	0.50	DRX-0075	0.75	DRX-0100	1.00	DRX-0125	1.25	DRX-0150	1.50	DRX-0175	1.75	DRX-0200	2.00	DRX-0225	2.25	DRX-0250	2.50	DRX-0300	3.00	DRX-0350	3.50	 <p style="font-size: small;">Every DIOPTRX™ includes a rubber eyeguard and lens cover</p>	<p>Your eyeglass prescription should look something like the example below. Your DIOPTRX™ value should match the CYL (cylinder) value for your preferred viewing eye. If you require more than 3.5 diopters correction, call Tele Vue (845-469-4551) for info on "stacking" DIOPTRX™</p> <table border="1" style="margin: auto; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th></th> <th style="text-align: center;">SPHERICAL</th> <th style="text-align: center;">CYL</th> <th style="text-align: center;">AXIS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">O.D. (Right eye)</td> <td style="text-align: center;">XX</td> <td style="text-align: center;">XX</td> <td style="text-align: center;">XX</td> </tr> <tr> <td style="text-align: center;">O.S. (Left eye)</td> <td style="text-align: center;">XX</td> <td style="text-align: center;">XX</td> <td style="text-align: center;">XX</td> </tr> </tbody> </table>		SPHERICAL	CYL	AXIS	O.D. (Right eye)	XX	XX	XX	O.S. (Left eye)	XX	XX	XX
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Installation Instructions (Additional technical information is available on our website at: www.televue.com)

- 1) Pull off and save rubber eyeguard from eyepiece.
- 2) While holding lower engraved bottom ring of DIOPTRX™ with one hand, unscrew upper top ring (containing lens and rubber eyeguard) just enough so the assembly slips over the eyepiece top.
- 3) While still holding the lower ring, re-tighten upper ring on DIOPTRX™ so it locks onto the eyepiece, then loosen it slightly so DIOPTRX™ is free to rotate. (Note: you can leave it locked onto Radian and Nagler Type 4 eyepieces because rotation can be done using their "Instadjust" housing.)
- 4) Place the chart on the reverse of this page at a distance so you can view it through your telescope, using your DIOPTRX equipped eyepiece (or use an actual star field). Focus at the center of the field and rotate DIOPTRX™ to optimize the astigmatism correction for the sharpest image you've ever seen. DIOPTRX™ is most effective with large exit pupils. *Hint for setting rotation:* view a star slightly out of focus, and simply rotate DIOPTRX until star disc appears circular then focus normally.
- 5) Keep the lens cap on, and clean as necessary, just as you would clean any other multi-coated optical glass surface.