TeleVue® Visionary WARRANTY REGISTRATION FORM

We sincerely thank you for your purchase and wish you years of pleasure using it!

Tele Vue Warranty Summary

Eyepieces, Barlows, Powermates, & Paracorr have a “Lifetime Limited” warranty, telescopes & accessories are warranted for 5 years. Electronic parts are warranted for 1 year. Warranty is against defects in material or workmanship. No other warranty is expressed or implied. No returns without prior authorization.

Lifetime Limited Warranty details online: http://bit.ly/TVOPTLIFE
5-Year/1-Year Warranty details online: http://bit.ly/TVOPTLIMITED
Subscribe to our Blog for the latest Tele Vue news: https://bit.ly/TeleVueBlog

Keep For Your Records

Dealer: _____ City/State/Country: _____

Date (day/month/yr): _____/_____/_____ **4.7 Ethos-SX (ETH-04.7)**

Tele Vue®
32 Elkay Drive
Chester, NY 10918-3001
U.S.A.

Please fill out, cut out, and mail form below within 2-weeks of product purchase. **Please include copy of sales receipt that has your name, the dealer name, and product name.**

Cut out mailing address at left, tape to envelope, insert form & sales receipt in envelope and apply sufficient postage to envelope.

4.7 Ethos-SX (ETH-04.7)

_____
Name Last First

_____
Street Address

_____
City State/Province

_____
Postal Code Country

Email*: _____

Phone: _____

Astro Club: _____

How did you learn about this product?

☐ Dealer ☐ Friend ☐ Tele Vue Blog
☐ CloudyNights.com ☐ TeleVue.com
☐ Social Media/Magazine/Other(s):

What made you decide to buy this and your comments after using the product?

Purchase Information

Dealer: _____

City/State/Country: _____

Date (day/month/yr): _____/_____/_____

Ethos-SX 3.7- & 4.7mm 110° Eyepieces

Thank you for purchasing this ETHOS-SX eyepiece. We wish you years of exciting viewing and we welcome comments on your personal experiences.

ETHOS-SX110 ° apparent field models fits both 2" and 1¼" focusers or diagonals.

Designed as a 1¼" eyepiece, there is NO optical benefit when using a 2" barrel. The 2" barrel adapter is included just for convenience, but it is also threaded to accept our 48mm filters.

For 1¼" holders

Just unscrew the 2" adapter.

In this mode, the eyepiece will be parfocal with Tele Vue's Plössls, Type 6 Naglers, Nagler Zooms, and 1¼" Panoptics.

For 2" holders

Just use the 2" adapter: screw it on until it stops. Do not tighten.

In this mode, the eyepiece will be parfocal with the 10- and 13mm ETHOS.

Paracorr Coma Corrector

This eyepiece is very well corrected over the full field. For Newtonians/Dobsonians f/4 or faster, we recommend our Paracorr coma corrector to eliminate mirror coma. 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.

DIOPTRX™

If you have eyesight astigmatism, you can add Tele Vue's Dioptrx™ Astigmatism Corrector to ETHOS, instead of using eyeglasses, to get the sharpest view possible. However, unless you have substantial astigmatism such as 2 diopters, and a fast scope, such as f/4, you are not likely to need Dioptrx™ with this short focal length eyepiece.

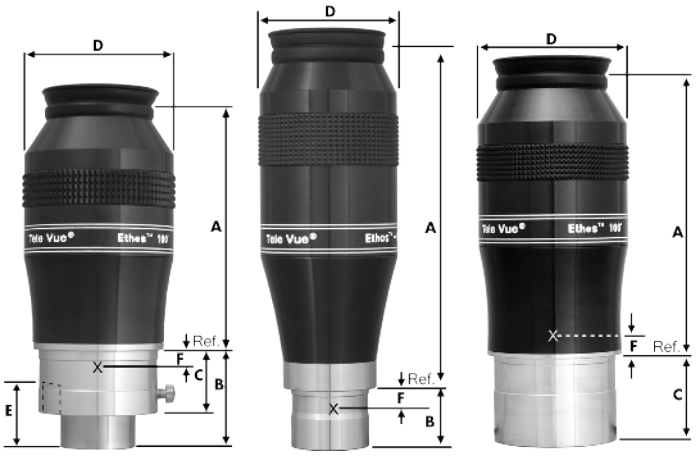


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@televueoptics

Ethos / Ethos-SX Eyepiece Specifications

Dimensions, Weights, & Compatibility

Prod Code	Focal Length (mm)	Barrel (in)	App. Field (°)	Eye Relief (mm)	Field Stop (mm)	Eyepiece Dimensions (in.)*						Weight (lb / oz)	Use with Bino Vue?
						A	B	C	D	E	F		
ETH-21.0	21	2″	100	15	36.2	4.3		1.62	2.95		-0.38	2.25/36.0	
ETH-17.0	17	2″	100	15	29.6	4.5		1.4	2.44		-0.39	1.55/24.8	
ETH-13.0	13	2″ & 1¼″	100	15	22.3	4	1.6	1.1	2.44	1.1	0.27	1.30/20.8	Y
ETH-10.0	10	2″ & 1¼″	100	15	17.7	3.8	1.6	1.1	2.3	1.1	0.27	1.10/17.6	Y
ETH-08.0	8	2″ & 1¼″	100	15	13.9	3.3	1.7	0.94	2.1	1.2	0.7	0.95/15.2	Y
ETH-06.0	6	2″ & 1¼″	100	15	10.4	3.5	1.5	0.94	2.1	1.1	0.7	0.97/15.5	Y
ETH-04.7	4.7	2″ & 1¼″	110	15	8.94	5.4	0.9		2.2		0.25	1.30/20.8	Y
ETH-03.7	3.7	2″ & 1¼″	110	15	7.04	5	1.1		2.2		0.25	1.10/17.6	Y



*Eyepiece Dimensions Key

A: Length of barrel above reference surface
B: Length below reference surface
C: Length of 2″ barrel
D: Diameter of black barrel
E: Depth of 1¼″ barrel
F: Approximate location of field stop
(negative number is above reference surface)
Ref.: Reference surface is location of barrel seat

Tele Vue Scope Magnification, True Field, & Exit Pupil

Focal Length	TV-60	TV-76	NP101is	TV-85	NP127is
21 Ethos	17.1x, 5.76°, 3.5mm	22.9x, 4.32°, 3.3mm	25.7x, 3.84°, 3.9mm	28.6x, 3.46°, 3.0mm	31.4x, 3.14°, 4.0mm
17 Ethos	21.2x, 4.71°, 2.8mm	28.2x, 3.53°, 2.7mm	31.8x, 3.14°, 3.2mm	35.3x, 2.83°, 2.4mm	38.8x, 2.57°, 3.3mm
13 Ethos	27.7x, 3.55°, 2.2mm	36.9x, 2.66°, 2.1mm	41.5x, 2.37°, 2.4mm	46.2x, 2.13°, 1.8mm	50.8x, 1.94°, 2.5mm
10 Ethos	36.0x, 2.82°, 1.7mm	48.0x, 2.11°, 1.6mm	54.0x, 1.88°, 1.9mm	60.0x, 1.69°, 1.4mm	66.0x, 1.54°, 1.9mm
8 Ethos	45.0x, 2.21°, 1.3mm	60.0x, 1.66°, 1.3mm	67.5x, 1.47°, 1.5mm	75.0x, 1.33°, 1.1mm	82.5x, 1.21°, 1.5mm
6 Ethos	60.0x, 1.66°, 1.0mm	80.0x, 1.24°, 1.0mm	90.0x, 1.10°, 1.1mm	100.0x, 0.99°, 0.9mm	110x, 0.90°, 1.2mm
4.7 Ethos SX	76.6x, 1.42°, 0.8mm	102.1x, 1.07°, 0.7mm	114.9x, 0.95°, 0.9mm	127.7x, 0.85°, 0.7mm	140.4x, 0.78°, 0.9mm
3.7 Ethos SX	97.3x, 1.12°, 0.6mm	129.7x, 0.84°, 0.6mm	145.9x, 0.75°, 0.7mm	162.2x, 0.67°, 0.5mm	178.4x, 0.61°, 0.7mm

Ethos SX 110° Simulator eXperience Eyepieces

Al Nagler eagerly pushed Ethos designer Paul Dellechiaie to extend the Ethos-SX focal lengths to reach 110°, the same field as the LEM Simulator optics Al designed to train NASA astronauts for lunar landings (see below). Years after the LEM program, the memory of the 110° view of the simulated lunar surface moving through the triangular cabin window of the LEM inspired Al to develop an "Ultra Wide Angle" (his patent title) telescope eyepiece to approach that "simulator experience." When the 82° Nagler eyepiece hit the observing fields, it changed how amateur astronomers viewed the heavens. An early customer dubbed it a "spacewalk" view.

Essentially, "the experience" is about creating an image as natural as one sees with the unaided eye. With Paul's help, Al's initial dream for amateur astronomers is now fully realized. The Ethos-SX eyepieces are designed and crafted to combine exceedingly wide field of view with all the contrast, color-rendition, distortion correction and center-to-edge sharpness needed to achieve that natural view.

Beyond the desire to simply achieve 110° for an extended deep sky field (21% more AFOV area than 100°) the Ethos-SX are superb planetary eyepieces. The 3.7mm permits a nice 62% power increase from a 6mm Ethos, while retaining 68% of its TFOV. The 3.7mm actually has more TFOV than our 8mm Plössl and 5mm Nagler Type-6! The 4.7mm rests midway between the 3.7mm and 6mm focal lengths. Compared to the 3.7mm, its lower power and 60% greater field area extends the SX-110° technology to more telescope applications than ever before.

We don't think we can aptly describe Al's original experience of "flying over the moon," but YOU can now experience what the astronauts saw decades ago.

Apollo Lunar Excursion Module (LEM) Simulator



Seen at left is one of the Infinity Display Projectors that fit over the LEM simulator. A separate unit was required for each window of the spacecraft. You can imagine why the astronauts affectionately dubbed the full collection of simulators for the Apollo mission "The Great Train Wreck!"

The optical design consisted of a series of six-foot mirrors, beam splitters, and a three-foot lens. It took a televised image of the lunar surface along with a separate background star field and projected the combined image to infinity. With the triangular compressor lens (seen at left) placed against the triangular window of the simulated LEM cabin, the astronauts saw star fields or the Moon filling the LEM window. The Infinity Display Projectors essentially acted as giant 110º eyepieces, each with a 12" exit pupil and 12" eye-relief. So, at one-foot from the window, the astronauts saw a 110º field of view.

And, you thought Ethos-SX eyepieces were big. Imagine ***that*** hanging off your telescope!

SFA-0001 This Eyepiece Accepts FONEMATE

If you need a convenient way to take still, video, or timelapse images through an eyepiece, use our FoneMate™ smartphone adapter. It securely clamps to compatible Tele Vue eyepieces. Smartphones as big as the Galaxy Note 4 can be fitted to the FoneMate™.

Enter bit.ly/TVOPTFM in browser URL bar for more info.



EBX-2120 2" EYEPIECE BARREL EXTENDER

Some of our eyepieces have dual 2" / 1¼" barrels which make it impossible to use 2" filters due to the 1¼" barrel extending below the 2" barrel. The 2" Eyepiece Barrel Extender adds 1.2-inches to the 2" barrel to provide a mounting location for 2" (48mm) eyepiece filters. It also increases backfocus distance and an also help parfocalize eyepiece sets.

Enter bit.ly/TVOPEBX in browser URL bar for more info.



This Eyepiece Accepts BANDMATE™ Filters

Adding Bandmate filters to your eyepiece make nebulae "pop-out" in the field. Bandmate does this by passing select wavelengths of light and blocking other to darken the sky and increase contrast. Several filters are available for 2" and 1¼" barrel eyepieces.

- Bandmate Nebustar is a a unique narrowband filter design specifically for Tele Vue as a general-purpose nebula filter for scopes of any size. Unlike other ultra-high constrast (UHC) designs, Nebustar blocks red wavelengths normally passed by typical UHC filters. The design eliminates star bloat to produce sharper, more natural looking stars along with enhanced nebulosity.
- Bandmate OIII filter enhances planetary nebulae and supernovae remnants.
- Bandmate Hβ brings out the hydrogen-beta emission lines found in hydrogen emitting nebulae.



Enter bit.ly/TVOPBM2 in browser URL bar for more info.

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32 Elkay Dr., Chester, New York 10918 (845) 469-4551. televue.com
@televueoptics

VIP-2010 VISUAL-IMAGING PARACORR TYPE-2

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). While a Newtonian/Dobsonian telescope will benefit from the use of Paracorr, those faster than f/5.0 will see the greatest results. Stars at the edge of the field will improve so dramatically, that when using top-notch Tele Vue eyepieces an object will be equally sharp 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." Just insert Paracorr 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 combined with Tele Vue eyepieces.



The Paracorr Type-2 allows an f/3 parabolic mirror to perform like an f/12 without it. This permits development of a new generation of larger ladderless Dobs, with bigger, sharper fields than ever before. Indeed, it's already been successfully applied by Mike Lockwood to his 20" f/3 and 14.5" f/2.55!

This model Paracorr is dual function: the tunable top permits positioning all Tele Vue eyepieces for optimum performance (see eyepiece position chart on the other side), and the optical assembly can be removed for use in an imaging system with DSLR or CCD cameras along with Tele Vue Imaging System accessories.

Enter bit.ly/TVOPTPC in browser URL bar for more info.

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32 Elkay Dr., Chester, New York 10918 (845) 469-4551. televue.com
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V05MAY2022
BV-FM-PC-EBX-BM

Choosing Your Eyepieces

by Al Nagler
CEO, Tele Vue Optics, Inc

MAGNIFICATION

Eyepieces determine your telescope's magnification.

Magnification = telescope focal length ÷ eyepiece focal length

TRUE FIELD OF VIEW

Eyepieces also determine the true field you see in the sky. To calculate the true field of view that you will see (in degrees):

True field of view = (eyepiece field stop diameter ÷ telescope focal length) x 57.3

THE FIELD STOP AND APPARENT FIELD OF VIEW

The field stop is the metal ring inside the eyepiece barrel that limits the field size. It's projected by the eyepiece so that it appears as a circle out in space when you look through the eyepiece. The angular diameter of this circle is called the apparent field of view (AFOV) and is a fixed property for each eyepiece design. For example, Plössl and Nagler Zoom eyepieces have an AFOV of 50º, Panoptics have 68º, Delos have 72º, Naglers have 82º, Ethos have 100º and the Ethos-SX eyepiece has 110º.

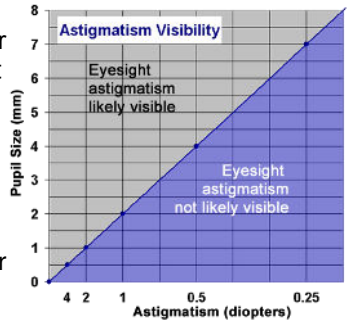
LOW-TO-MEDIUM POWER VIEWING

For low-power viewing of large objects, or to use your telescope as a low-power finder, use an eyepiece that delivers close to the maximum possible true field of view (note that for 1.25" eyepieces, the maximum field stop diameter is 27mm; for 2" eyepieces, it's 46mm). Then add eyepieces covering uniform increments in smaller field stops. For example, if your widest field eyepiece has a 40mm diameter field stop and you choose a decreasing increment diameter factor of 2 (which results in a 4x decrease in area size), you'll end up with eyepieces having field stop diameters of approximately 40mm, 20mm and 10mm. To further fill in with incremental steps, add eyepieces with approximate field stop diameters of 28mm and 14mm. Of course, avoid duplicating focal lengths. For example, if you use a 31mm Nagler (with a 42mm field stop diameter), you would not need a 32mm Plössl (with a 27mm field stop diameter).

In general, for each field stop size, choosing eyepieces with shorter focal lengths and larger apparent fields of view will allow you to see more detail and fainter stars. In addition, you'll have a smaller exit pupil to better match your eyesight.

EYEGLASSES AND EYE RELIEF

If you do not need eyeglasses to correct astigmatism, don't use them when observing. If you wear glasses to correct astigmatism, make sure they're multi-coated, and try to choose eyepieces that have at least 15mm to 20mm of eye relief, to minimize any field reduction (vignetting). However, you will find that with small exit pupils such as 1mm or less, you probably will not need eyeglasses, and can therefore use eyepieces with less eye relief. You can use DIOPTRX instead of eyeglasses for best performance, with Tele Vue eyepieces that accept this accessory.



EXIT PUPIL

The exit pupil is the image of the objective that is formed by the eyepiece. It's where you place your eye to see the full field of view.

Exit pupil = eyepiece focal length ÷ telescope *f*/#

For reflecting telescopes, it's best to avoid exit pupils larger than 7mm or smaller than 0.5mm. Refracting telescopes have no upper limits on exit pupil sizes.

IMAGE AMPLIFIERS (Barlows and Powermates)

You can also choose a long focal length eyepiece with comfortable eye relief and use image amplifying lenses to increase power. Tele Vue makes Barlows and Powermates (an improvement to the Barlow-type design) in magnification factors of 2x, 2.5x, 3x, 4x and 5x.

PARACORR Type-2 (Parabola Corrector)

If you have a Newtonian or Dobsonian reflector that's *f*/5.0 or faster, you should seriously consider using the Paracorr to eliminate coma, so your full field eyepiece sharpness is not compromised. Paracorr also acts like a 1.15x image amplifier, so, for example, a 1000mm *f*/4.5 scope becomes an 1150mm *f*/5.2 scope. Adjust your eyepiece focal length choices accordingly. Paracorr Type-2 is for scopes as fast as f/3.0.

HIGH-POWER VIEWING

Once you've selected an eyepiece set based on field stop sizes, calculate the magnifications produced with your scope. For planetary or double star observing, you'll want an eyepiece in at least the 150x range. For determining maximum power, a good rule of thumb is to use no more than 60x per inch of aperture for scopes with apertures up to 6". Higher magnifications may still be pleasing but will not likely reveal any additional detail. Realistically, the atmosphere will usually limit your planetary observing to a maximum magnification of about 300x, no matter how large your telescope aperture.

Basically, you'll be choosing low and medium power eyepieces by field stop increments to "frame" the subject, and high power eyepieces by magnification increments (based on your scope's aperture), to reach the optimum contrast and resolution for viewing planets and double stars.

Check out ***www.televue.com*** for the following related articles: "Choosing Your Telescope's Magnification", "Eyepieces for Small Dobs" and "Determining When To Use Eyeglasses".

For more individual advice on specific applications, you can always call Tele Vue at 845-469-4551

TELE VUE EYEPIECE SPECIFICATIONS

Tele Vue recommends choosing low and medium power eyepieces in ratios of field stop diameters. For example, factors of 1.4 or 2.0. When choosing higher power eyepieces, use ratios of magnification.

Focal Length (mm)	Type	Product Code	Apparent Field (deg)	Field Stop Dia. (mm)	Eye Relief (mm)	Dioptrx Ready	Pupil size in mm for various f/ratio telescopes				
							f/4.5	f/5.2	f/7	f/10	f/14
2" Eyepieces for Wide True Fields											
55	Plössl	EPL-55.0	50	46.0	38	Y	12.2	10.6	7.9	5.5	3.9
41	Panoptic	EPN-41.0	68	46.0	27	Y	9.1	7.9	5.9	4.1	2.9
31	Nagler 5	EN5-31.0	82	42.0	19	Y	6.9	6.0	4.4	3.1	2.2
35	Panoptic	EPN-35.0	68	38.7	24	Y	7.8	6.7	5.0	3.5	2.5
21	Ethos	ETH-21.0	100	36.2	15	Y	4.7	4.0	3.0	2.1	1.5
22	Nagler 4	EN4-22.0	82	31.1	19	Y	4.9	4.2	3.1	2.2	1.6
27	Panoptic	EPN-27.0	68	30.5	19	Y	6.0	5.2	3.9	2.7	1.9
17	Ethos	ETH-17.0	100	29.6	15	Y	3.8	3.3	2.4	1.7	1.2
24	Delos	EDL-24.0	72	29.6	22	Y	5.3	4.6	3.4	2.4	1.7
19	Nagler 7	EN7-19.0	82	27.1	19	Y	4.2	3.7	2.7	1.9	1.4
14	Nagler 7	EN7-14.0	82	20.5	19	Y	3.1	2.7	2.0	1.4	1.0
1¼" Eyepieces for Wide True Fields											
40	Plössl	EPL-40.0	43	27.0	28	Y	8.9	7.7	5.7	4.0	2.9
32	Plössl	EPL-32.0	50	27.0	22	Y	7.1	6.2	4.6	3.2	2.3
24	Panoptic	EPN-24.0	68	27.0	15	Y*	5.3	4.6	3.4	2.4	1.7
13	Ethos	ETH-13.0	100	22.3	15	Y	2.9	2.5	1.9	1.3	0.9
16	Nagler 5	EN5-16.0	82	22.1	10	N	3.6	3.1	2.3	1.6	1.1
19	Panoptic	EPO-19.0	68	21.3	13	Y*	4.2	3.7	2.7	1.9	1.4
25	Plössl	EAP-25.0	50	21.2	17	N	5.6	4.8	3.6	2.5	1.8
17.3	Delos	EDL-17.3	72	21.2	20	Y	3.8	3.3	2.5	1.7	1.2
18.2	DeLite	EDE-18.2	62	19.1	20	Y	4.0	3.5	2.6	1.8	1.3
10	Ethos	ETH-10.0	100	17.7	15	Y	2.2	1.9	1.4	1.0	0.7
13	Nagler 6	EN6-13.0	82	17.6	12	Y*	2.9	2.5	1.9	1.3	0.9
14	Delos	EDL-14.0	72	17.3	20	Y	3.1	2.7	2.0	1.4	1.0
20	Plössl	EAP-20.0	50	17.1	14	N	4.4	3.8	2.9	2.0	1.4
15	DeLite	EDE-15.0	62	16.0	20	Y	3.3	2.9	2.1	1.5	1.1
1¼" Eyepieces for Medium Powers											
12	Delos	EDL-12.0	72	15.0	20	Y	2.7	2.3	1.7	1.2	0.9
13	DeLite	EDE-13.0	62	13.8	20	Y	2.9	2.5	1.9	1.3	0.9
9	Nagler 7	EN7-09.0	82	13.0	19	Y	2.0	1.7	1.3	0.9	0.6
10	Delos	EDL-10.0	72	12.7	20	Y	2.2	1.9	1.4	1.0	0.7
15	Plössl	EAP-15.0	50	12.6	10	N	3.3	2.9	2.1	1.5	1.1
9	Nagler 6	EN6-09.0	82	12.4	12	Y*	2.0	1.7	1.3	0.9	0.6
11	DeLite	EDE-11.0	62	11.7	20	Y	2.4	2.1	1.6	1.1	0.8
9	DeLite	EDE-09.0	62	9.6	20	Y	2.0	1.7	1.3	0.9	0.6
11	Plössl	EAP-11.0	50	9.1	8	N	2.4	2.1	1.6	1.1	0.8
1¼" Eyepieces for Higher Powers											
8	Ethos	ETH-08.0	100	13.9	15	Y	1.8	1.5	1.1	0.8	0.6
6	Ethos	ETH-06.0	100	10.4	15	Y	1.3	1.2	0.9	0.6	0.4
8	Delos	EDL-08.0	72	9.9	20	Y	1.8	1.5	1.1	0.8	0.6
7	Nagler 6	EN6-07.0	82	9.7	12	Y*	1.6	1.3	1.0	0.7	0.5
4.7	Ethos SX	ETH-04.7	110	8.9	15	Y	1.0	0.9	0.7	0.5	0.3
5.5	Nagler 7	EN7-05.5	82	8.1	19	Y	1.2	1.1	0.8	0.6	0.4
6	Delos	EDL-06.0	72	7.6	20	Y	1.3	1.2	0.9	0.6	0.4
7	DeLite	EDE-07.0	62	7.5	20	Y	1.6	1.3	1.0	0.7	0.5
3.7	Ethos SX	ETH-03.7	110	7.0	15	Y	0.8	0.7	0.5	0.4	0.3
5	Nagler 6	EN6-05.0	82	7.0	12	Y*	1.1	1.0	0.7	0.5	0.4
8	Plössl	EAP-08.0	50	6.5	6	N	1.8	1.5	1.1	0.8	0.6
4.5	Delos	EDL-04.5	72	5.6	20	Y	1.0	0.9	0.6	0.5	0.3
5	DeLite	EDE-05.0	62	5.3	20	Y	1.1	1.0	0.7	0.5	0.4
3.5	Nagler 6	EN6-03.5	82	4.8	12	Y*	0.8	0.7	0.5	0.4	0.3
3.5	Delos	EDL-03.5	72	4.4	20	Y	0.8	0.7	0.5	0.4	0.3
4	DeLite	EDE-04.0	62	4.3	20	Y	0.9	0.8	0.6	0.4	0.3
3	DeLite	EDE-03.0	62	3.2	20	Y	0.7	0.6	0.4	0.3	0.2
1¼" Zoom Eyepieces for Medium and Higher Powers											
6-3	Nagler Zoom	ENZ-0306	50	5.1-2.6	10	N	1.3-0.7	1.2-0.6	0.9-0.4	0.6-0.3	0.4-0.2

NOTE: True Field in degrees = (Field Stop dia./Telescope Focal Length) X 57.3° *Indicates additional Dioptrx Adapter required

As of January 2012, all Tele Vue eyepieces have a limited lifetime warranty.

Tele Vue® Visionary 32 Elkay Dr., Chester, New York, 10918 (845) 469-4551 televue.com