STELLARVUE ® LIMITED WARRANTY FOR U.S.A. END PURCHASERS ONLY

STELLARVUE (SV) WARRANTS THAT EACH SV BRAND TELESCOPE AND ACCESSORY SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR TWO YEARS FROM THE DATE OF PURCHASE. SV WILL REPAIR OR REPLACE SUCH PRODUCT OR PART THEREOF, WHICH UPON INSPECTION BY SV IS FOUND DEFECTIVE IN MATERIALS OR WORKMANSHIP. AS A CONDITION TO THE OBLIGATION OF SV TO REPAIR OR REPLACE SUCH PRODUCT, THE PRODUCT MUST BE RETURNED TO SV AS SPECIFIED IN THIS WARRANTY.

THIS LIMITED WARRANTY, AND ANY IMPLIED WARRANTIES THAT MAY EXIST UNDER STATE LAW APPLY ONLY TO THE ORIGINAL PURCHASER AND LASTS ONLY AS LONG AS THE PURCHASER OWNS THE PRODUCT.

RETURN REQUIREMENTS:

- · Proof of purchase acceptable to SV must accompany any return.
- · A RETURN AUTHORIZATION MUST BE OBTAINED FROM SV IN ADVANCE OF RETURN.

E-MAIL STELLARVUE AT MAIL@STELLARVUE.COM OR CALL (530) 823-7796 TO RECEIVE THE AUTHORIZATION & PACKING INSTRUCTIONS.

- THE AUTHORIZATION CODE MUST BE WRITTEN ON THE OUTSIDE OF THE CONTAINER.
- · ALL RETURNS MUST BE ACCOMPANIED BY A WRITTEN NOTE STATING THE MODEL NUMBER OF THE PRODUCT, AUTHORIZATION CODE, NAME, ADDRESS, E-MAIL ADDRESS AND DAYTIME TELEPHONE NUMBER OF THE OWNER, AND AN EXPLANATION OF THE PROBLEM. REPLACED PARTS SHALL BECOME THE PROPERTY OF SV.
- \cdot The customer shall be responsible for all costs of transportation and insurance, both to and from SV.

SV REQUIREMENTS

- · SV SHALL USE REASONABLE EFFORTS TO REPAIR OR REPLACE ANY PRODUCT COVERED BY THIS LIMITED WARRANTY WITHIN THIRTY DAYS OF ACCEPTANCE. IF REPAIR WILL TAKE LONGER, SV SHALL NOTIFY THE CUSTOMER.
- · SV MAY REPLACE ANY PRODUCT THAT HAS BEEN DISCONTINUED WITH A NEW PRODUCT OF COMPARABLE VALUE AND FUNCTION.

PRODUCTS THAT HAVE BEEN DAMAGED, DROPPED, DISASSEMBLED, ABUSED, MISUSED, MISHANDLED, SUBJECTED TO TEMPERATURE OR WEATHER EXTREMES, SUBJECTED TO WEAR OR MODIFIED IN ANY WAY WILL NOT BE COVERED BY THIS WARRANTY. IN THESE INSTANCES. THIS WARRANTY SHALL BE NULL AND VOID.

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WARNING: LOOKING AT THE SUN CAN CAUSE SERIOUS EYE INJURY AND BLINDNESS. NEVER POINT A TELESCOPE AT OR NEAR THE SUN. VIEWING THE SUN WITHOUT A PROPER SOLAR FILTER MAY RESULT IN BLINDNESS, AS WELL AS DAMAGE TO THE INSTRUMENT. NEVER ALLOW CHILDREN TO USE BINOCULARS OR TELESCOPES DURING THE DAYLIGHT HOURS, UNLESS THEY ARE SUPERVISED BY AN ADULT WHO UNDERSTANDS THE DANGER OF POINTING ANY OPTICAL INSTRUMENT IN THE GENERAL DIRECTION OF THE SUN.

STELLARVUE ®

SV115-25SV 115MM APO TRIPLET REFRACTOR





A Message From Vic Maris

Thank you for purchasing a Stellarvue [®] Telescope. Back in the mid 1960's, my father bought me a 60mm refractor to encourage my interest in science. That telescope almost ended my interest in astronomy! I struggled for several nights with its wobbly mount, inferior eyepieces and optics, then retired the telescope to the closet.



There are millions of inexpensive telescopes sitting in closets because of inferior performance. Instead of taking that chance, you made the decision to become the owner of a quality telescope; easy to use and built to last. Congratulations on making an excellent decision! Please look over this manual to learn how easy it is use your new Stellarvue[®] Refractor.

WARNING!

LOOKING AT THE SUN CAN CAUSE SERIOUS EYE INJURY AND BLIND-NESS. NEVER POINT A TELESCOPE OR BINOCULARS AT OR NEAR THE SUN. VIEWING THE SUN WITHOUT A PROPER SOLAR FILTER MAY RESULT IN BLINDNESS, AS WELL AS DAMAGE TO THE INSTRUMENT. NEVER ALLOW CHILDREN TO USE BINOCULARS OR TELESCOPES DURING THE DAYLIGHT HOURS, UNLESS THEY ARE SUPERVISED BY AN ADULT WHO UNDERSTANDS THE DANGER OF POINTING ANY OPTICAL INSTRUMENT IN THE GENERAL DIRECTION OF THE SUN.

INTRODUCTION

Stellarvue telescopes are individually made and are triple tested before they leave the factory. Please store and use it as you would any optical device. If dust accumulates on the lens, you may use a bulb type blower to remove it. Always be careful to avoid marring the lens.

Stellarvue optics are fully multi-coated to increase light transmission and contrast. Lenses are accurately hand figured but may show some cosmetic marks which do not affect performance. The telescope is internally baffled and treated with an ultra flat black interior. The true apochromatic lens, dark interior and full multi-coatings result in exceptional contrast and clarity.

Assembling your telescope is easy. Once it is assembled, you are ready to observe. The telescope may be easily moved. We recommend storing the tube assembly in a padded, breathable case to protect the finish. Do not leave it outside after observing with it. When working in the field, it is a good idea to cover the telescope when not in use to prevent dust from settling on the optical and mechanical parts.

CARE AND MAINTENANCE

Keep the telescope covered when not in use with the lens caps in place. Cover the lens to reduce the dust and debris that can fall onto the lens. When observing, extend the dew shield all the way out to minimize the amount of dew that forms on the lens. If the lens gets wet, bring it indoors to let it air dry before replacing the lens cap. Do not store the telescope in an air tight container. Store it in a cool, dry place.

Lens cleaning should be done infrequently. A small amount of dust or small spots on a lens will not affect performance. If dust accumulates on the lens, blow it off with a bulb syringe. If the lens needs cleaning, make sure you blow all the dust off the lens before cleaning it. Dust particles can be hard and scratch the glass. All dust should be removed before you use a lens cloth. Once the lens is clear of any particles, use lens cleaner on a Kimwipe or optical cleaning cloth to clean the lens, followed by a dry wipe. Never spray directly onto the lens: the liquid could migrate around the lens to the inside.

Spray the cloth and wipe it in circular motions covering the entire surface. Keep wiping as the lens cleaner evaporates. Use a dry cloth as needed.

The tube exterior can be cleaned with a lint free cloth and a commercial cleaner, like "Fantastic." Fantastic works well on anodized surfaces and the tube to eliminate spots. As with any cleaner, follow the instructions on the container.

If you scratch the tube, contact Stellarvue about touch up paint.

Avoid temperature extremes. Do not store the telescope in a hot car during the daytime: heat can damage the optics and tube. Whenever possible, store in a cool, dry place.

Avoid dropping the telescope or striking it against hard surfaces. Treat the telescope as you would a fine camera lens and it will give you decades of excellent service.

OPTIONAL FINDERS

Since this telescope offers a wide field of view, many users find they do not need a finderscope. They merely use a wide field 2" eyepiece. But the majority of users prefer either a reflex finder (which displays an illuminated reference point) or an optical finderscope.



The simplest to use is the Stellarvue Red Dot Finder #F1001 shown to the left. When this finder is turned on, a red dot is seen in the window. This dot represents where the telescope is pointed. This is similar to a 1X rifle scope.

Red Dot Finder

We also offer a more advanced reflex finder featuring multiple reticle patterns. A lever in the rear permits the user to switch from a projected red dot (two sizes), to a circle or a crosshair pattern.

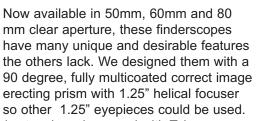


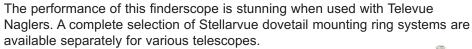
Multi-reticle Finder



Reticle patterns

STELLARVUE [®] OPTICAL FINDERSCOPES



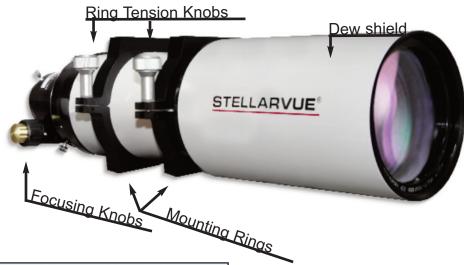


GUIDESCOPE RINGS

Astrophotographers often use a top-mounted guide scope when engaged in astrophotography. The guidescope is mounted on adjustable rings on top of the main scope. It can be pointed at a relatively bright guide star while the main telescope is centered on the target. Stellarvue makes adjustable guidescope ring systems that will work perfectly with your Stellarvue telescope.



INTRODUCTION TO YOUR TELESCOPE



Eyepiece Objective lens Star Diagonal Nain Tube

Refractor telescopes gather light with a large objective lens in the front of the telescope. This light travels through the main tube into the star diagonal, then into the eyepiece. The eyepiece magnifies the image. To view through the telescope, look into the eyepiece.

Since the eyepiece is located at the back of the telescope, pointed up to view the sky, a star diagonal is essential for comfortable viewing.

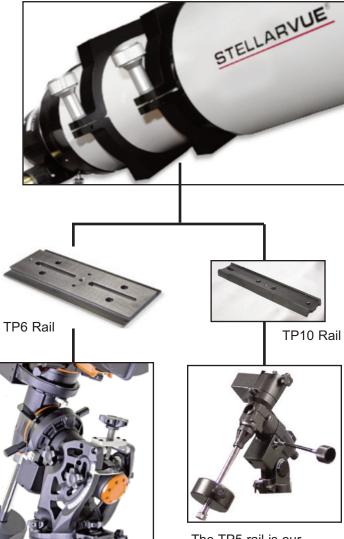
Astronomers use the sharpest mirror diagonals.

A star diagonal presents an image that is upright but reversed left to right, like looking into a mirror. For daytime viewing of terrestrial objects, an erecting prism may be used instead of a star diagonal; this provides correctly oriented views just as seen with the naked eye. Heat waves during the day affect image clarity; the loss of resolution caused by an erecting prism is minimal when the telescope is used during the day. But, for the best performance at night, always use a good mirror star diagonal.

Different eyepieces provide different magnification powers. Low power eyepieces provide the widest field of view and the brightest images; use these to initially locate objects. Once the object is centered in the low power eyepiece, changing to a high power eyepiece gives you a closer look.

MOUNTING THE TELESCOPE

Your telescope came with two hinged mounting rings. These attach to most mounts using one of two optional rails.



The TP6 rail is our "Losmandy" sized rail. This rail is used on the Celestron CGEM and CGE Pro, Losmandy mounts, Stellarvue mounts that have the large TD7 dovetail shoe and many more.

The TP5 rail is our "Vixen" sized rail. This rail is used on Stellarvue mounts that use the TD2 shoe (M2 & MG2), the Celestron CG5, Vixen GP, and many more

Convert your telescope into a super telephoto lens by attaching your camera to it.

USING A SIMPLE POINT AND SHOOT CAMERA

Our micro-metric camera adapters (#CA5 and #CA6) are used for small point and shoot cameras.

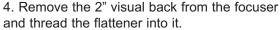
- 1. Insert your star diagonal and low power eyepiece into the focuser.
- 2. Attach the proper micro-metric camera adapter to the evepiece as shown.
- 3. Center the camera lens directly over the opening in the eyepiece using the micro-metric adjustment knobs on the camera adapter.
- 4. Focus and shoot.



Camera

USING A DSLR CAMERA

- 1. Purchase a T-ring for your model camera available from a camera store.
- 2. Remove the camera lens from your camera body.
- 3. Thread the t-ring to the Stellarvue field flattener.



- 5. Attach the camera to the t-ring/field flattener.
- 6. Focus and shoot.

USING A CCD CAMERA

CCD Cameras offer many advantages over DSLR's but each camera is designed differently. Field flatteners must be placed at a specific distance from the ccd chip in your camera. Our field flatteners are designed to work

with DSLR cameras fitted with a t-ring. DSLR cameras have

55 mm of space from the front of the t-ring to the chip. Unfortunately, most CCD cameras have a much shorter spacing distance. So, in order to use Stellarvue field flatteners with a CCD camera, it is neccessary to use



SV Flattener

with adapter

Flattener

T rina

Extension Tubes

CCD Camera

extension tubes between the field flattener and the camera. If your ccd camera has 35 mm of space from its opening to its ccd chip, a 20 mm extension will be needed to get the required 55 mm spacing from the rear of the flattener to the actual ccd chip. Extension tubes are available from www.edmundoptics.com.

ASTROPHOTOGRAPHY

New telescope owners are urged to enjoy their new telescope visually before attempting astrophotography. While the pros make it look easy, astrophotography requires a significant commitment of time and expense. Learning the night sky and becoming completely familiar with your telescope will only help when you decide it is time to try your hand at imaging.

Stellarvue telescopes are designed for use visually and photographically. We offer simple camera adapters as well as dedicated field flatteners for use with your camera so your images are sharp across the field of view.

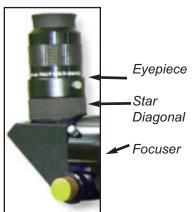
Good astrophotography requires a good telescope mount. Equatorial mounts are best: alt azimuth tracking mounts cause field rotation during longer exposures, turning the stars into arcs. Equatorial mounts with low periodic error track the stars accurately if your telescope mount is properly aligned to the celestial pole. Less expensive mounts will not track accurately enough to show all your telescope is capable of capturing. Your telescope is excellent both optically and mechanically, so we advise you not to cut corners on the mount if you intend to engage in astrophotography. Check our website for recommended mounts for your telescope.

CA3: The CA3 camera adapter plugs into your focuser's 2" adapter in place of the star diagonal and eyepiece. This adapter has a T thread. DSLR cameras attach to the camera adapter using a T ring (available at camera stores) for your model camera. This inexpensive adapter will allow you to start taking pictures through your telescope. Some cameras may require a small extension tube to reach focus.

Field Flatteners: Without a field flattener, you may notice that stars in the corners of your pictures are elongated. That is because telescopes are designed to be used visually, creating an image for your eye, not for wider, flat surface. To correct for this, we offer photographic field flatteners. We offer both standard and large chip field flatteners for this telescope. (See page 8.)

Focal reducers: Back in the old, film days, astrophotographers needed to reduce the speed of their telescopes to avoid reciprocity failure. Today, many people still feel they need to reduce the speed of their telescopes, even though they are taking a series of shorter electronic images and combining them now. The problem with these reducers is that they do not produce as flat a field as a flattener; focal reducers reduce the image scale significantly. Since relatively short refractors like this one already render a wide field of view, users should think twice before ordering a focal reducer.

USING THE TELESCOPE



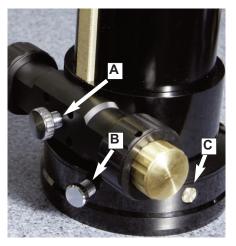
- 1. Place the telescope on a suitable mount and remove the front and rear covers.
- 2. Insert a star diagonal or erecting prism in the focuser.
- 3. Insert your lowest power eyepiece into the star diagonal or erecting prism.
- 4. Point the telescope at a distant object and look through the eyepiece.
- 5. Focus the image of the distant object using the focuser knobs.
- 6. To increase power, center the object in the low power eyepiece and then replace it with a higher power eyepiece.

FOCUSER ADJUSTMENT

If you find the focuser slips when heavy accessories are used, tighten the thumb screw (A) slightly to eliminate slippage.

ROTATING THE FOCUSER

There is a thumb screw (B) in between the focuser and the main tube. Loosen this slightly to rotate the focuser 360 degrees. If the focuser is too loose when this screw is loosened, tighten the three brass bearing screws (C) positioned around the rotator so that they apply enough pressure to hold the focuser steady for rotation.



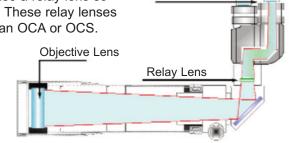
Two Eyepieces

BINOCULAR VIEWING

Some observers enjoy using binocular viewers, also known as binoviewers.

When using binoviewers with conventional refractors, it is necessary to use a relay lens so the eyepieces come to focus. These relay lenses are commonly referred to as an OCA or OCS.

They are generally placed either in the binoviewer, as shown, or they are screwed to the front of the star diagonal. (See the binoviewer page on our website for more information.)

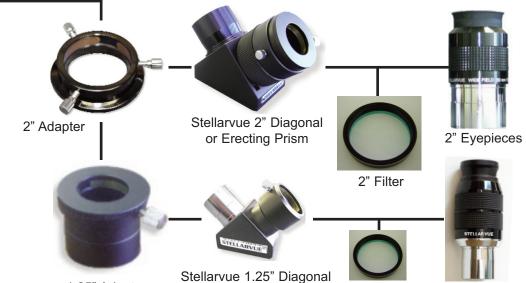


6.

ACCESSORIES CHART

STELLARVUE Stellarvue M2, Celestron VX, CG5, Vixen GP and other TP10 or TP14 Rail mounts that use the Vixen sized mounting rail. TP6 Rail

Celestron CGEM, CGE Pro, Losmandy and other large mounts that use the Losmandy sized rail.



VISUAL ACCESSORIES

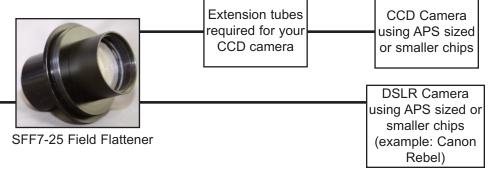
IMAGING ACCESSORIES

or Erecting Prism

1.25" Filter

1.25" Eyepieces

1.25" Adapter



Storage Case

Telegizmos Outdoor Covers