

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.
- 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.

THESE WARRANTIES REPLACE ALL OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SV MAKES NO EXPRESS WARRANTIES BEYOND THOSE STATED HERE AND DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE THE SOLE OBLIGATION OF SV UNDER THIS LIMITED WARRANTY SHALL BE TO REPAIR OR REPLACE THE COVERED PRODUCT, IN ACCORDANCE WITH THE TERMS SET FORTH HEREIN. SV DISCLAIMS ANY LOST PROFITS, GENERAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM BREACH OF ANY WARRANTY, OR ARISING OUT OF THE USE OR INABILITY TO USE ANY SV PRODUCT FOR ANY PARTICULAR PURPOSE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM JURISDICTION TO JURISDICTION.

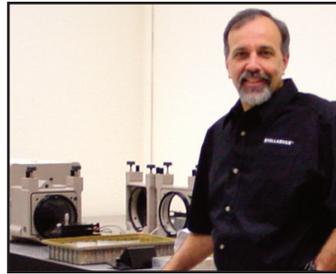
WARNING: LOOKING AT THE SUN CAN CAUSE SERIOUS EYE INJURY AND BLINDNESS. NEVER POINT A TELESCOPE AT OR NEAR THE SUN. VIEWING THE SUN WITHOUT A PROPER SOLAR FILTER MAY RESULT IN BLINDNESS, AS WELL AS DAMAGE TO THE INSTRUMENT. NEVER ALLOW CHILDREN TO USE BINOCULARS OR TELESCOPES DURING THE DAYLIGHT HOURS,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

STELLARVUE®
SVQ100
100 MM f5.8 APO ASTROGRAPH



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.

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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.

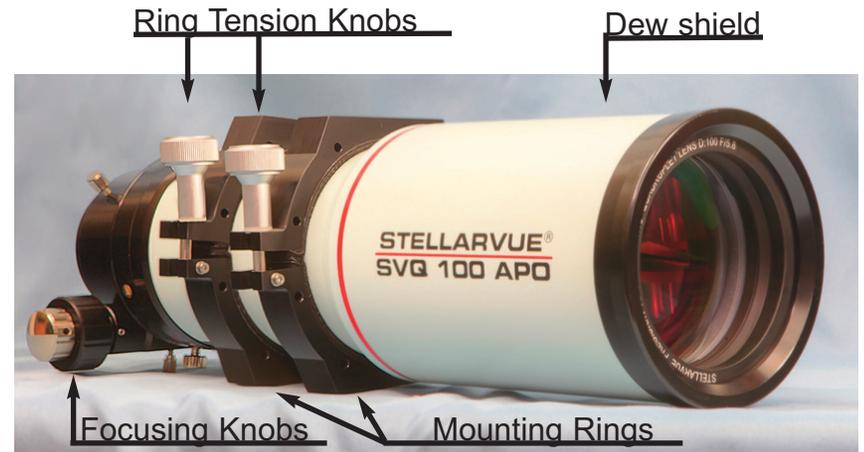
Avoid temperature extremes. Do not store the telescope in a hot car during the daytime: heat can damage the optics and tube. Whenever possible, store in a cool, dry place.

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.

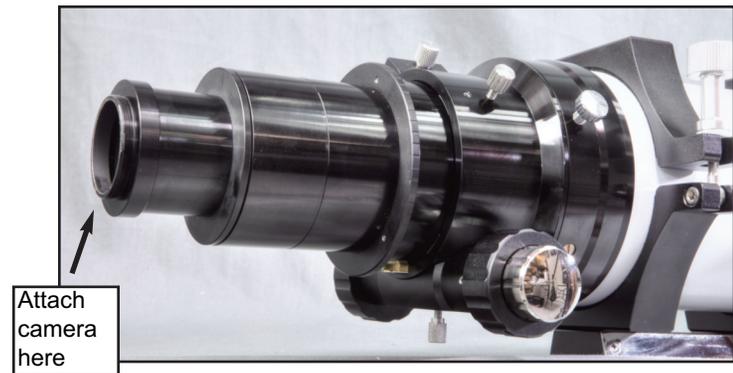


Lunar Eclipse and Horsehead Nebula by Frank Dibble.

INTRODUCTION TO YOUR TELESCOPE



The SVQ100 Refractor telescope gathers light with its 100 mm objective lens in the front of the telescope. This light travels through the main tube to the rear where the field is flattened with a special flattener element in front of the focuser.



Your camera attaches to the focuser. A number of extension tubes and adapters are included with the SVQ100 to allow most cameras to work with it. Other adapters are available from Stellarvue including the popular 2.156 and 3-24 threads found on larger CCD cameras.



This is an astrograph that can also be used for visual use with our low profile visual adapter available separately. The adapter screws into the focuser and accommodates a 2" star diagonal. To order go to: <http://www.stellarvue.com/low-profile-visual-back-for-3-stellarvue-focusers/>

MOUNTING THE TELESCOPE

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



TP6 Rail



TP14 Rail



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 TP14 rail is our "Vixen" sized rail. This rail is used on Stellarvue mounts that use the TDLV shoe (M2C & MG2), the Celestron VX, AVX, Vixen GP, and many more

3.

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 adapter on the focuser. Use both adapters for the standard T-ring (M42 and only the larger adapter if using the oversized 48 mm T-ring.
4. Attach the camera to the T-ring/field flattener.
6. Focus and shoot.



T-ring Camera

USING A CCD CAMERA

CCD cameras offer many advantages over DSLR's but each camera is designed differently. Most CCD cameras come with a standard T thread attachment. Simply screw it on, focus and shoot.

CCD cameras come in all sizes and many other items may be purchased that are placed between the camera and the focuser. These items include a filter wheel and off axis guider. This means that different camera set ups come to focus at different distances from the front of the telescope. We designed the SVQ to work with as many different set ups as possible. The image plane (point of focus) is about 6 inches back from the focuser. So depending on your camera equipment, you may need an extension tube to reach focus. If you cannot come to infinity focus through direct attachment as outlined here, contact Stellarvue for the correct, threaded extension. Fortunately, the Q does not require any field flatteners so flattener spacing is not an issue.



CCD Camera

GUIDESCOPIES

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 guidescopes and adjustable guidescope ring systems that will work perfectly with your SVQ100.

Visit our website at <http://www.stellarvue.com/guidescopes-1/>



7.

ASTROPHOTOGRAPHY

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.



SVQ100 Images by Dave Weixelman

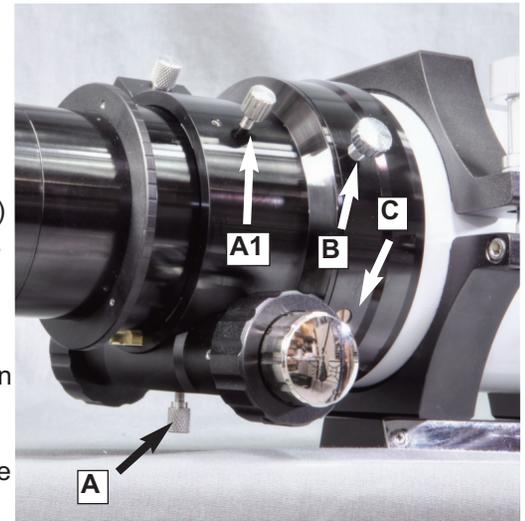
FOCUSER ADJUSTMENT

If you find the focuser slips when heavy accessories are used, tighten the thumb screw (A) underneath the focus shaft slightly to eliminate slippage. Also, tighten thumb screw (A1) if the focuser drawtube has any play.

ROTATING THE FOCUSER

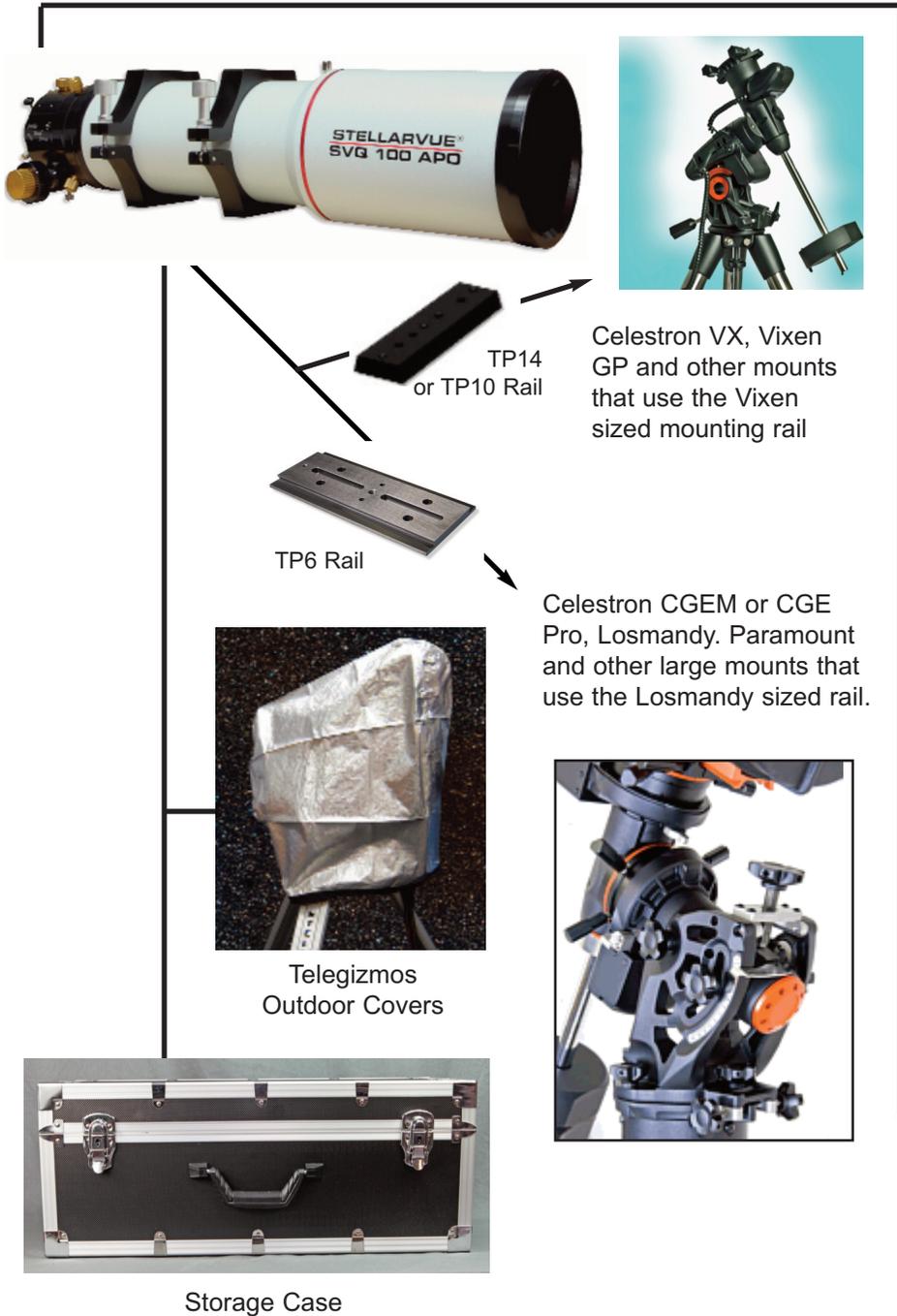
There is a thumb screws (B) between the focuser and the main tube. Loosen this slightly to rotate the focuser 360 degrees. There are three set screws (C) that adjust tension of the rotator. Make sure each of these is equally tight so rotation is stiff. If they are too loose the focuser could slightly misalign, so be sure these screws are adequately tight before imaging to eliminate any misalignment.

When imaging, after you attain focus, tighten the top screw (A1) to eliminate focus shift during the exposure.



IC2177 emission nebula in Canis Major/Monoceros by Frank Dibble.

ACCESSORIES CHART



IMAGING ACCESSORIES

