

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

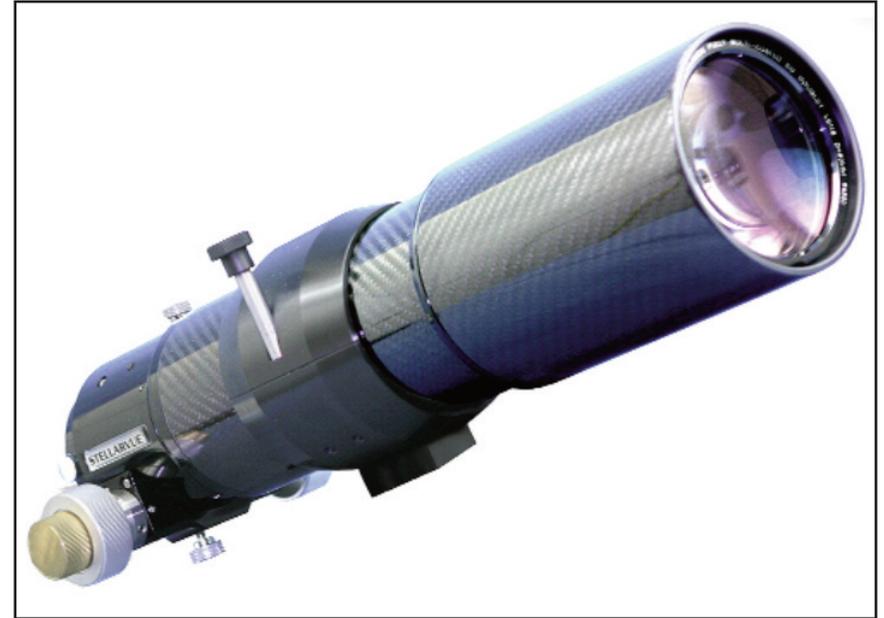
- SV SHALL USE REASONABLE EFFORTS TO REPAIR OR REPLACE ANY PRODUCT COVERED BY THIS LIMITED WARRANTY WITHIN THIRTY DAYS OF ACCEPTANCE. IF REPAIR WILL TAKE LONGER, SV SHALL NOTIFY THE CUSTOMER.
- SV MAY REPLACE ANY PRODUCT THAT HAS BEEN DISCONTINUED WITH A NEW PRODUCT OF COMPARABLE VALUE AND FUNCTION.

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.

STELLARVUE®

**SVR 80ED RAPTOR
80 MM ED REFRACTOR**



STELLARVUE®

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STELLARVUE®

ASTRONOMICAL TELESCOPES

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 altogether! With its wobbly mount, inferior eyepieces and optics, I struggled for several nights, then retired the telescope to the closet. There are millions of cheap department store telescopes sitting in closets. This should not be the case with your telescope. You are now the owner of a quality telescope that is easy to use. Please look over this manual to learn how easy it is use your new

Stellarvue.

WARNING!

LOOKING AT THE SUN CAN CAUSE SERIOUS EYE INJURY AND BLINDNESS. 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. Stellarvue refractors use a full multi-coating to increase light transmission and contrast. This telescope uses lenses that are accurately hand figured but may show some cosmetic marks caused by test plates. However, any cosmetic marks you may see will not affect visual or photographic performance and should not be a cause for concern. The telescope is internally baffled and treated with an ultra flat black interior. This along with the full multi-coatings results in exceptional contrast and clarity.

Assembling your telescope is easy. Once it is assembled and adjusted, you are ready to observe. The telescope may be easily moved, but make sure all parts are secure and the eyepiece tray is empty before you do. When transporting the telescope, we recommend storing the tube assembly in a padded case to protect the finish. Occasional lubrication of the mount is all that is needed to maintain this telescope. Avoid keeping it outside continuously as metal parts may rust and corrode. 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.

1.

CARE AND MAINTENANCE

Refractors are maintenance free. They do not require alignment like reflectors and compound telescopes, and they are generally smaller and more compact. This makes a refractor an ideal grab and go telescope.

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 dewshield all the way out to minimize the amount of dew that forms on the lens. If the lens gets wet, bring it indoors and let it air dry before replacing the lens cap. Cleaning should be done very 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 glass. So every bit of dust should be removed before you use a lens cloth. Once the lens is clear of any particles, use our lens cleaner cloth and liquid to clean the lens, followed by a dry wipe. Never apply cleaner directly onto the lens but into the cloth so cleaner does not migrate around the lens to the inside. The tube exterior can be cleaned with a lint free cloth and a commercial cleaner like "Fantastic."

Your telescope comes with a retracting dewshield. Velvet is used to provide a solid, smooth motion. Under some climates, the velvet may compress slightly and the dewshield may slip down when the telescope is pointed upward. In this case, you need to add more velvet. We provide strips of adhesive velvet for this purpose.

1. Remove the dust cover and unscrew the tapered ring from the dewshield. Turn the ring and not the dewshield.

2. Slide off the dewshield rotating it clockwise as you pull it off.

3. Add two or three strips of the adhesive velvet over the existing velvet making sure the edges are adhered well to the surface.

4. Replace the dewshield making sure the velvet is fitted under the edge so it does not pull up. Rotate the shield clockwise as you carefully install it. Thread it to the tapered ring.

Never touch the lens cell retainer located on the front of the lens cell.



USING THE TELESCOPE

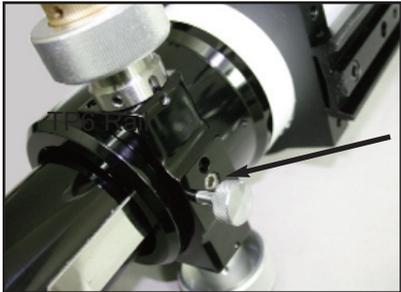
It couldn't be easier. With the telescope mounted on the Stellarvue M2 or any other suitable mount, insert the diagonal into the focuser and then the eyepiece into the diagonal. Focus with the focusing knobs.

Start using the lowest power eyepiece first. The lowest power has the widest view making it easier to locate distant objects in the telescope eyepiece. If you want to boost power, do so only after you have located and centered the object at low power. Focus using the two focus knobs on the focuser until the object is sharp. That is all there is to it.



STELLARVUE FOCUSER

This telescope uses the standard Stellarvue dual speed focuser. The thumb screw knob on the bottom is the focus lock. Make sure this is loose during normal operation.



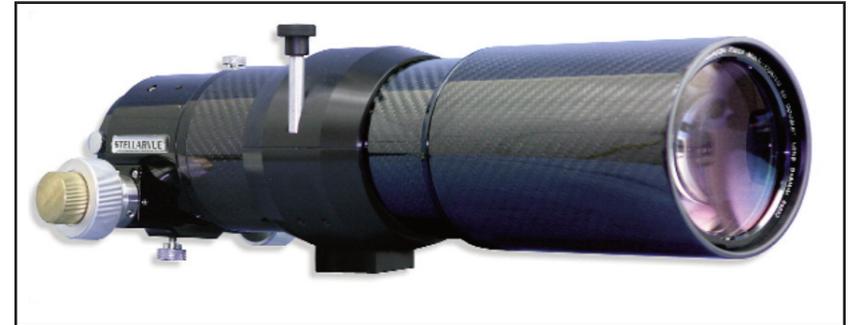
The large Allen set screw next to the focus lock is the tension adjustment. If your focuser drawtube slips when the telescope is pointed skyward, use the supplied Allen wrench to tighten this only enough so that your heaviest accessories will not slip.

BINOVIEWING WITH THE SV80ED and SV80ED RAPTOR

The SVR80ED may be used with binoviewers allowing you to view with both eyes open. This provides a stunning 3D effect when viewing open star clusters and other deep space objects. Some people really enjoy binoviewing. Refractors may be used with binoviewers if a special adapter is inserted in between the binoviewer and the diagonal. These telescopes require such an adapter and with it they will work with all commercial binoviewers.

UNPACKING.

Check to make sure you have all the necessary parts:



1. Telescope
2. 1 1/4" adapter
3. Lens caps

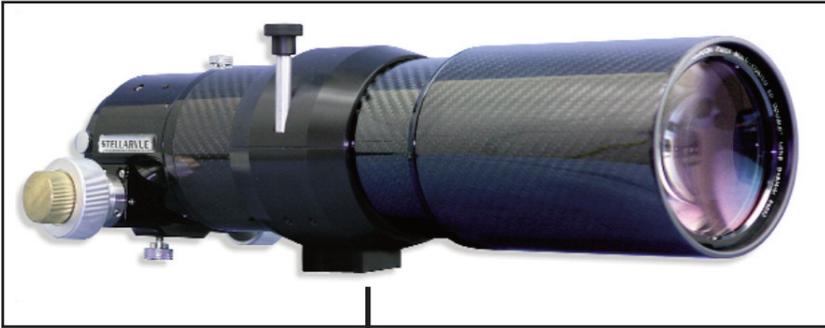
Telescopes gather light with their main objective lens and the eyepiece is used to magnify it. In a refractor, the main lens is in the front and the eyepiece is in the rear. Since astronomical telescopes point upward, the eyepiece points straight down so a star diagonal is required for viewing. An astronomical telescope used with a star diagonal provides a reversed image. An erecting prism, which may be obtained for use with this telescope, will provide correctly oriented images. But erecting prisms are not as sharp as a mirror star diagonal which is preferred for astronomical use.

This telescope is designed to come to focus when used with a star diagonal or erecting prism. On rare occasions you may wish to view straight through without a star diagonal or prism. This will provide a reverse image. To do this, obtain the extension tube (#ET3).

TELESCOPE COMPONENTS

The size and color of your telescope tube will vary depending on the model. If any parts are missing, e-mail us at: mail@stellarvue.com or call: (530) 823-7796.

MOUNTING THE TELESCOPE



Mounts directly to heavy duty camera tripod heads (1/4"-20)



For telescopes that use the Losmandy style rail (Losmandy, Celestron CGEM, CGE, etc) use the TP6 Rail



For telescopes that use a Vixen style rail, (SV, M2, MG2, Celestron CG5, Vixen mounts, and many others) use the TP14 dovetail rail.



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 operates at 1X and displays a red dot where the telescope is pointed) or an optical finderscope that operates from 9X - 13X and has a crosshair reticle. The simplest to use is the Stellarvue Red Dot Finder #F1001 shown to the right.



We also offer a more advanced reflex finder featuring multiple reticle patterns. A switch permits the user to switch from a projected red dot (two sizes), a circle or a crosshair pattern. #F2



STELLARVUE[®] OPTICAL FINDERSCOPIES

Now available in 50mm, 60mm and 80 mm clear aperture, these finderscopes have many unique and desirable features the others lack. We designed them with a 90 degree fully multicoated correct image erecting prism with 1.25" helical focuser so other 1.25" eyepieces could be used.

The performance of this finderscope is stunning when used with Televue Naglers. A complete selection of Stellarvue dovetail mounting ring systems are available separately for various types of telescopes.

ULTIMATE FINDER/GUIDER



The Stellarvue SV70ED makes an outstanding finder/guidescope that can be used visually or with autoguiders. Use our 2" erecting prism and our 2" 26mm illuminated reticle eyepiece for stunning 4.2 degree porthole views. This is our sharpest guidescope ever.