

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®

TELESCOPE OPERATORS MANUAL

SV60EDS



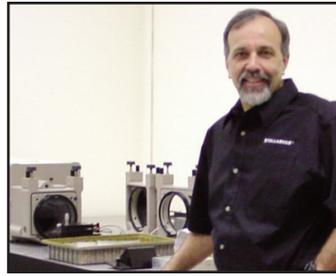
STELLARVUE®

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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 caps. 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 mar the tube, an automotive wax may remove the marring and shine up the tube nicely but be careful to keep abrasive material away from the lens. A wax safe for Gel coat finishes is advised.

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. In order to precisely center objects in the telescope use one of our 2" illuminated reticle eyepieces. This is superior to any other eyepiece for this purpose as the crosshair is easy to see at night when an illuminator is added and the 60 mm objective gathers lots of light.

If you prefer a reflex finder we recommend the Stellarvue F2-MRF. This 1X finder displays one of four selectable illuminated reference points. A lever in the rear permits the user to switch from a projected red dot (two sizes), to a circle or a crosshair pattern.



F2-MRF on F002D Shoe



Reticle patterns

STELLARVUE® OPTICAL FINDERSCOPIES



Stellarvue's top rated 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 our UWA eyepieces. A complete selection of Stellarvue dovetail

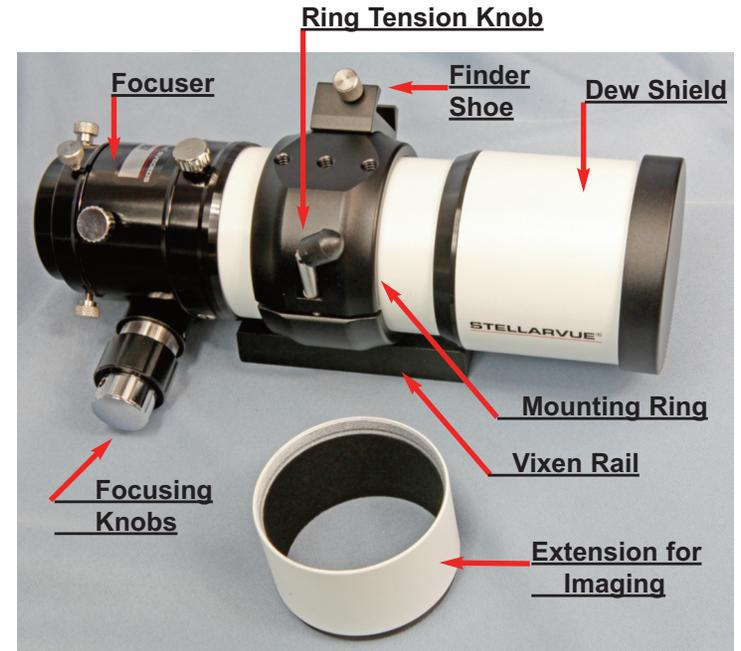
mounting ring systems are available separately. Use the R50DA ring system with this finderscope.

GUIDE SCOPE RINGS

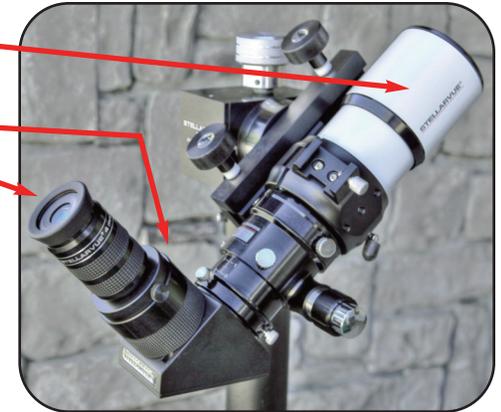
Astrophotographers often use a top-mounted guide scope when engaged in astrophotography. The guidescope is mounted on adjustable rings on top of the main scope. It can be pointed at a relatively bright guide star while the main telescope is centered on the target. Stellarvue makes adjustable guide scope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



INTRODUCTION TO YOUR TELESCOPE



Refractor telescopes gather light with their 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.

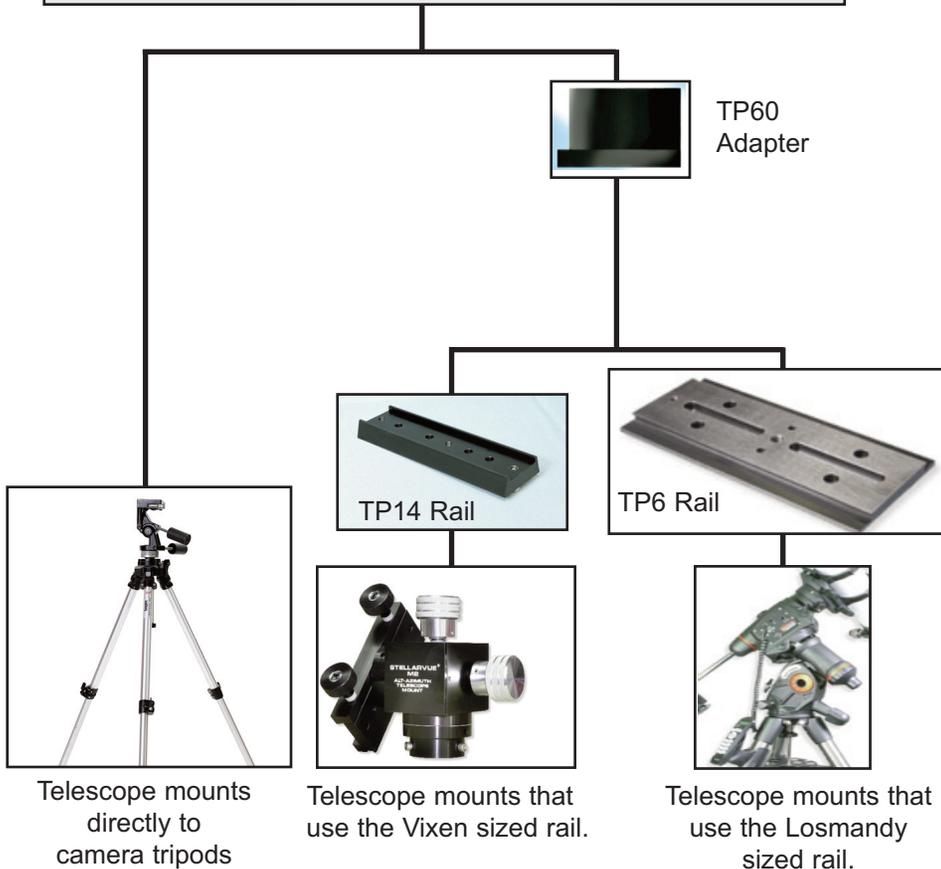


Since the eyepiece is located at the back of the telescope, pointed up to view the sky, a star diagonal is essential for comfortable viewing. *Astronomers use mirror diagonals as they are the sharpest.*

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

MOUNTING THE TELESCOPE

Your telescope comes with a clamshell ring and small Vixen rail with 1/4-20 threaded hole. This will allow you to mount it directly to a camera tripod. It will also mount to telescope mounts using the small Vixen shoe. If you wish to mount it to larger mounts with longer shoes, the optional TPSV60 adapter is recommended to place the telescope higher on the mount.



3.

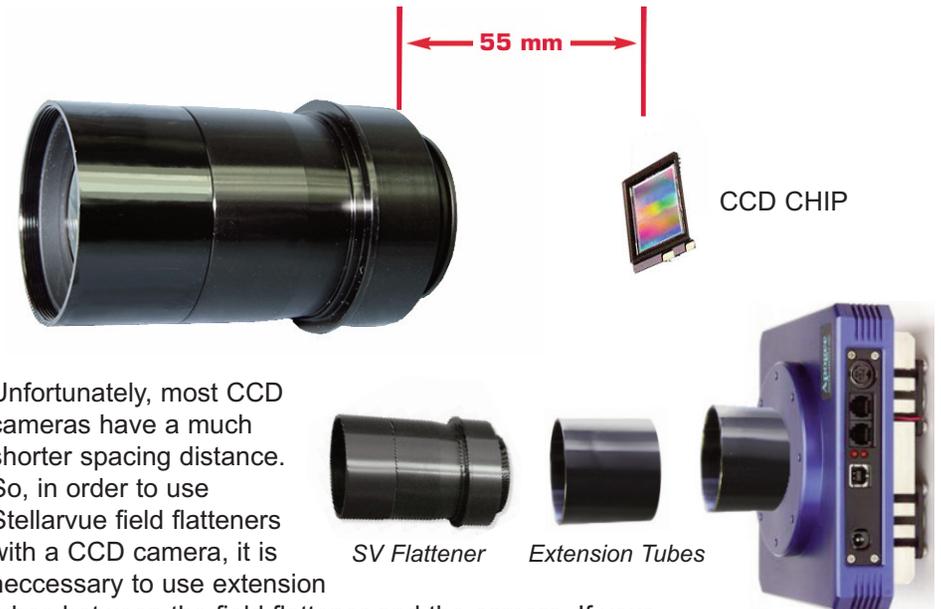
TAKING IMAGES USING A DSLR

1. Purchase a T-ring for your model camera.
2. Remove the camera lens from your camera body.
3. Thread the t-ring to the Stellarvue field flattener.
4. Remove the 1 1/4" adapter from the focuser and insert the flattener into it.
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 base of the t-thread to the chip.



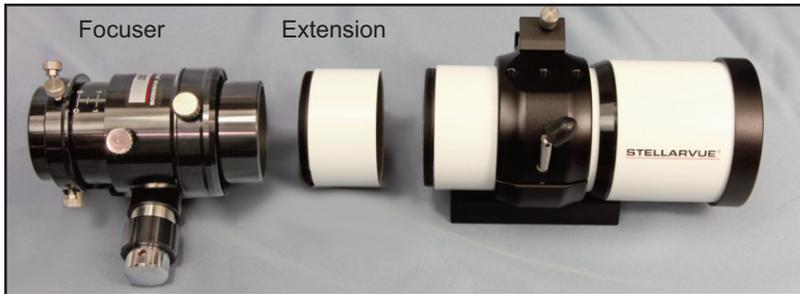
Unfortunately, most CCD cameras have a much shorter spacing distance. So, in order to use Stellarvue field flatteners with a CCD camera, it is necessary to use extension tubes between the field flattener and the camera. If your CCD camera has 35 mm of space from its opening to its CCD chip, a 20 mm extension 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.

8.

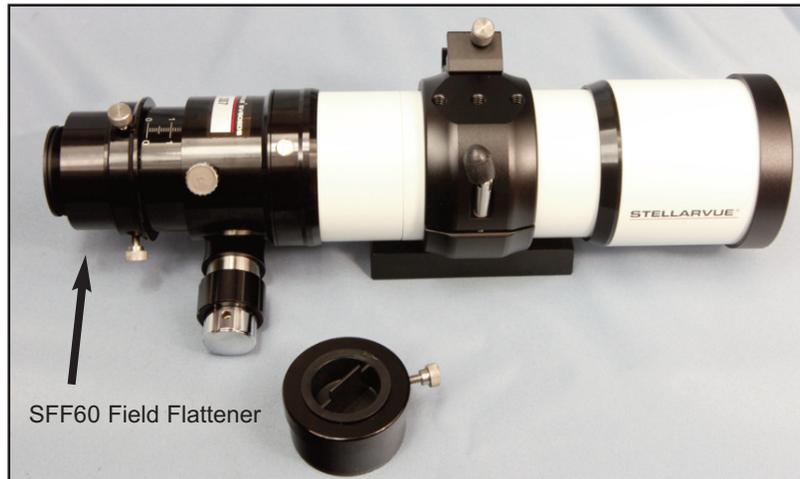
ASTROPHOTOGRAPHY

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.

The SV60EDS may be used as a telephoto lens for photography during the day and for astro-photography at night. To accomplish this we have included with your scope a small extension tube. To install the extension tube, unthread the focuser, thread the extension tube to the main tube and screw the focuser to it as shown.

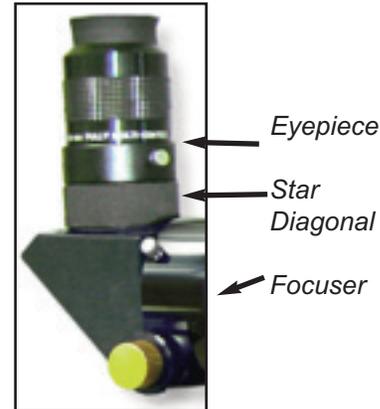


In addition to the focuser you will need the SFF60 photographic field flattener. Simply remove the 1.25" adapter from the focuser, install the optional SFF60 into the focuser.



This is the SV60EDS in imaging mode with the extension installed and the SFF60 field flattener inserted into the focuser.

USING THE TELESCOPE



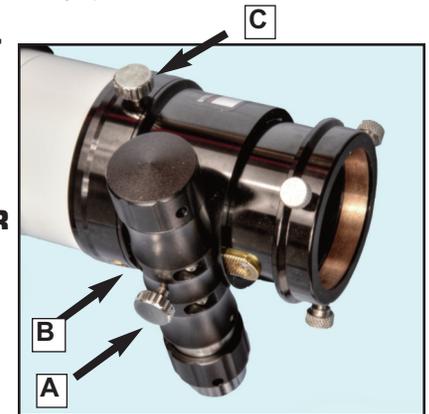
1. Place the telescope on a suitable mount and remove the front and rear covers.
2. Insert a star diagonal or erecting prism in the focuser.
3. Insert your lowest power eyepiece into the star diagonal or erecting prism.
4. Point the telescope at a distant object and look through the eyepiece.
5. Focus 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 are two brass set screws (B) in between the focuser and the main tube. There is one thumb screw (C) opposite these two set screws. Loosen this thumb screw slightly to rotate the focuser 360 degrees. Make sure both of the set screws are tight so rotation requires some pressure and this will retain the system's alignment.



PHOTOGRAPHY

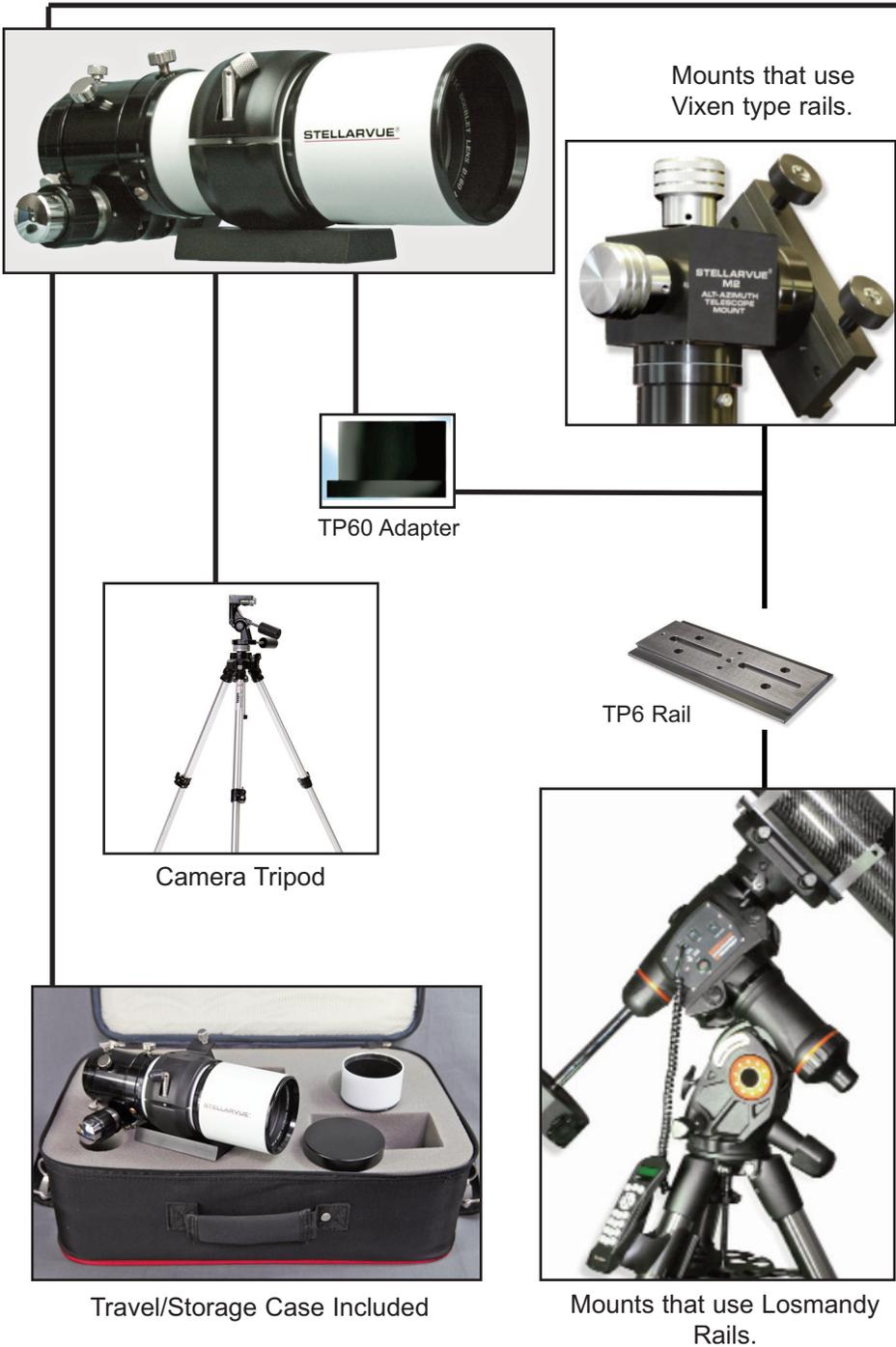
Convert your telescope into a super telephoto lens by attaching your camera to it.

USING A SIMPLE POINT AND SHOOT CAMERA

- Our micro-metric camera adapter (#CA6) may be used for small point and shoot cameras.
1. Insert your star diagonal and low power eyepiece into the focuser.
 2. Attach the CA6 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.



ACCESSORIES CHART

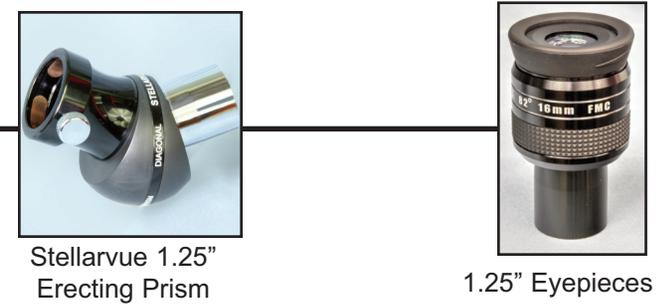


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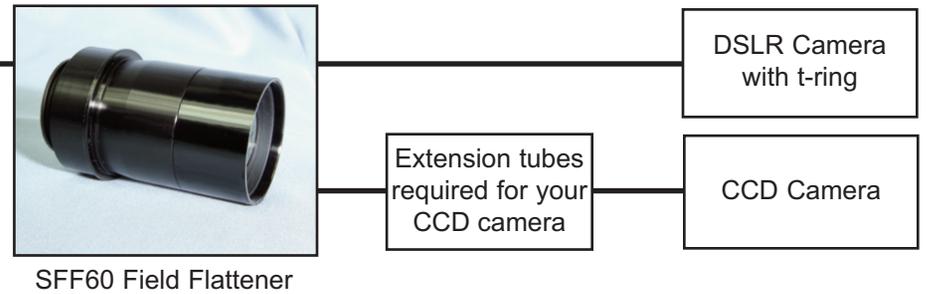
ASTRONOMY VISUAL ACCESSORIES



TERRESTRIAL VISUAL ACCESSORIES



IMAGING ACCESSORIES



6.