

**Vixen®**

# Instruction Manual for A62SS

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## PREFACE




Thank you very much for your purchase of a Vixen astronomical telescope.

This manual applies to A62SS refracting telescope. You may occasionally find descriptions in the text not relevant to your particular model. Read instructions for your mount along with this manual if you purchase the telescope as a complete package.







### WARNING

-  Never look directly at the sun with the telescope or its finder scope or eyepiece. Permanent and irreversible eye damage may result.

### CAUTION

-  Do not leave the optical tube uncapped in the daytime. Sunlight passing through the telescope or finder scope may cause a fire.
-  Do not use the product while moving or walking, injuries could result from a collision with objects or from stumbling or falling.
-  Keep small caps, plastic bags or plastic packing materials away from children. These may cause a danger of swallowing or suffocation.

## HANDLING AND STORAGE

-  Do not leave the product inside a car in bright sunshine, or in other hot places. Keep away strong heat source away from the product.
-  When cleaning, do not use solvents such as paint thinner or similar products.
-  Do not expose the product to rain, water, dirt or sand.
-  Avoid touching any lens surfaces directly with your hands. In case a lens becomes dirty with fingerprints or general smears, gently wipe it using a commercially available lens cleaner and lens cleaning paper or cloth, or consult your local Vixen dealer.
-  Blow off dust on lenses using a commercially available blower brush.
-  For storage, keep the product in a dry place and do not expose to direct sunlight.

## CONTENTS

The A62SS shipping box contains the items listed below. Check if all the items are included.

1	A62SS Optical Tube
1	Eyepiece Adapter Unit
1	Allen wrench of 3mm on a side (For detaching the finder bracket shoe, if necessary)
1	Carry soft case
1	Instruction Manual (This document)



A62SS Optical Tube



Eyepiece Adapter Unit



Allen wrench of 3mm on a side

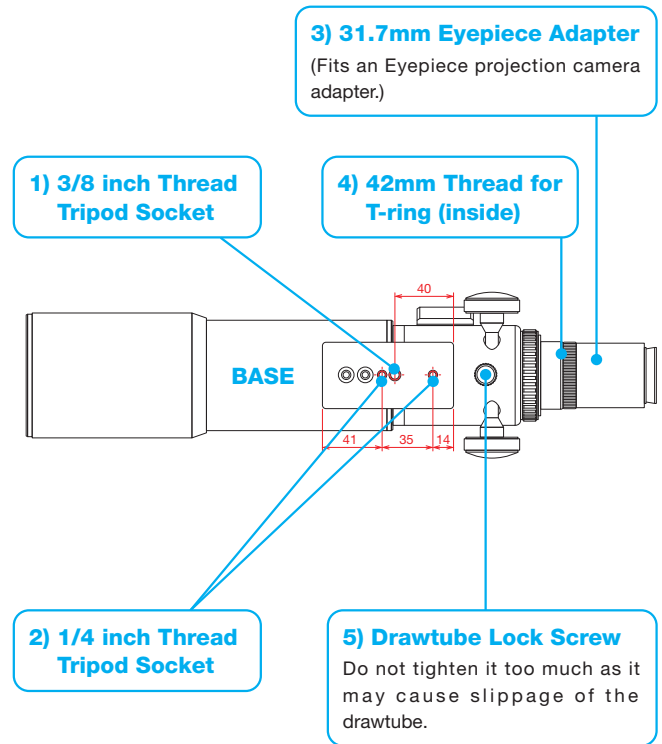
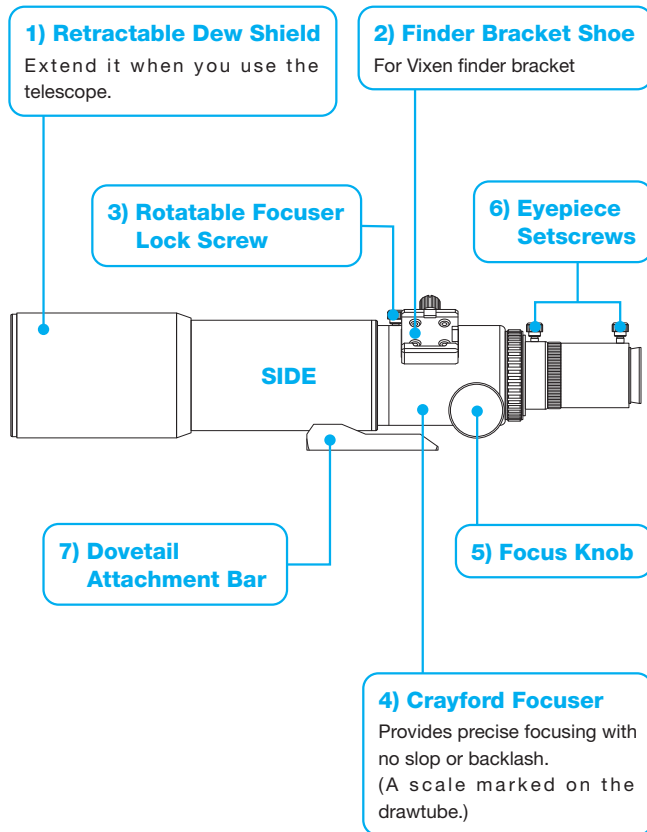


Carry soft case



Instruction Manual

## NAME OF EACH PART



## SETTING UP THE TELESCOPE

### Attaching the Optical Tube to the Mount

- Loosen both the dovetail plate lock screw and safety screw until the tips of these screws no longer extended into the inner part of the dovetail block.
- Slide the dovetail attachment bar on the optical tube into the dovetail mounting block as shown in the figure.
- Tighten the dovetail lock screw onto the dovetail tube plate until snug (centered on the notch).
- First tighten the dovetail lock screw, and then tighten the small chrome safety screw.

Note: Refer to your mount instructions as to balancing the optical tube.

### Attaching the Finder Scope

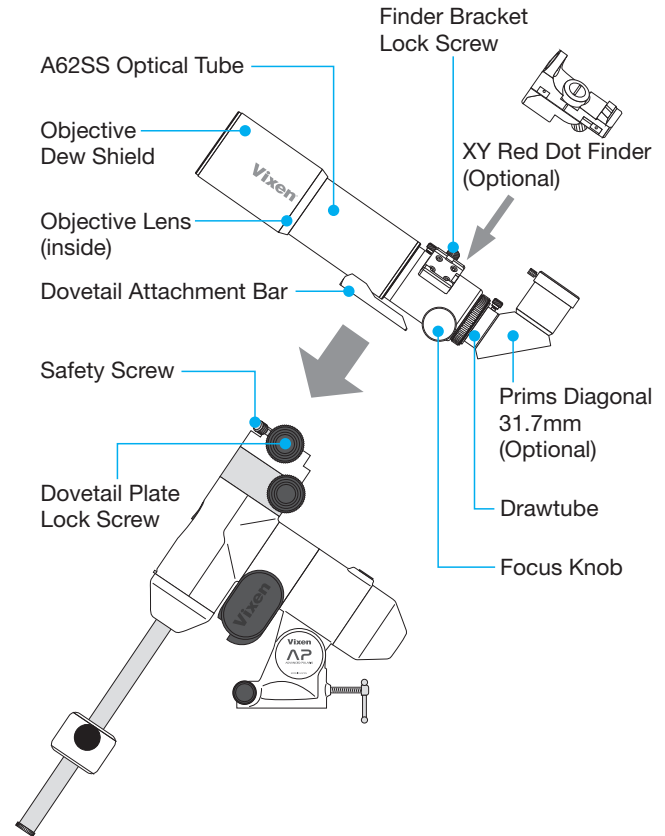
(Finder scope may be optional at your particular model.)

Loosen the finder scope bracket lock screw on the finder bracket shoe of the optical tube.

Attach the finder scope (or XY Red dot finder) as shown in the figure. Tighten the finder bracket lock screw securely.

### Use of the Finder Scope

For the novice telescope user it is difficult to locate a selected object in the telescope's field of view at high magnification. Using a finder scope will make this easier.



## ● VISUAL OBSERVING

### Eyepiece

- The telescope requires eyepieces to view images.
- The eyepiece determines magnification of your telescope.
- The telescope does not come with the eyepiece as standard accessory unless you purchase a package.

### Magnification of the Telescope

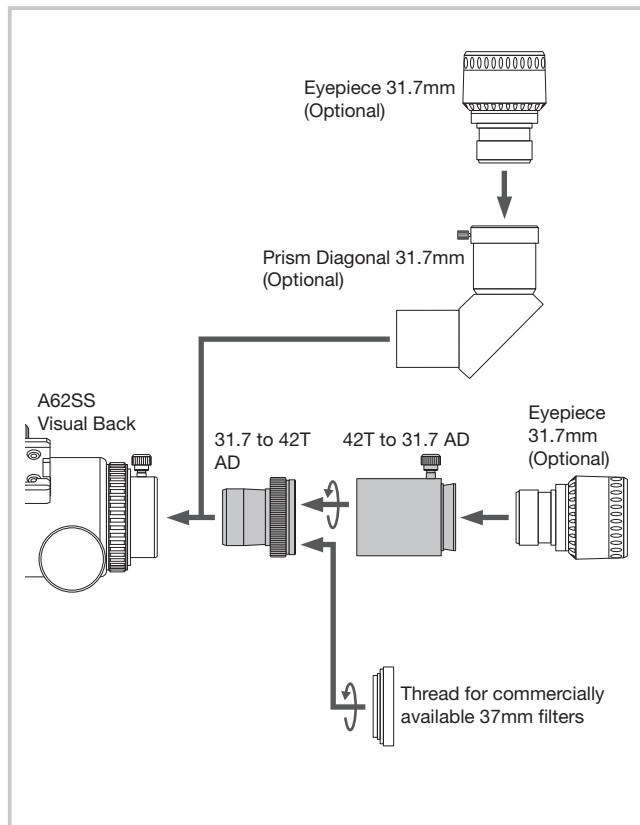
Dividing the focal length of the telescope by the focal length of the eyepiece gives the magnification.

Example: Using the A62SS (focal length: 520mm) with SLV20mm or SLV5mm eyepiece

Eyepiece	Telescope's focal length	Eyepiece's focal length	Magnification
SLV20mm	520mm	20mm	26X
SLV5mm	520mm	5mm	104X

Note: Begin with an eyepiece with long focal length (large number in millimeters). When using an eyepiece with short focal length, the image becomes dimmer and the range of field of view becomes narrower. Also the range of sharp focus becomes smaller.

### A62SS Visual Observing Configuration

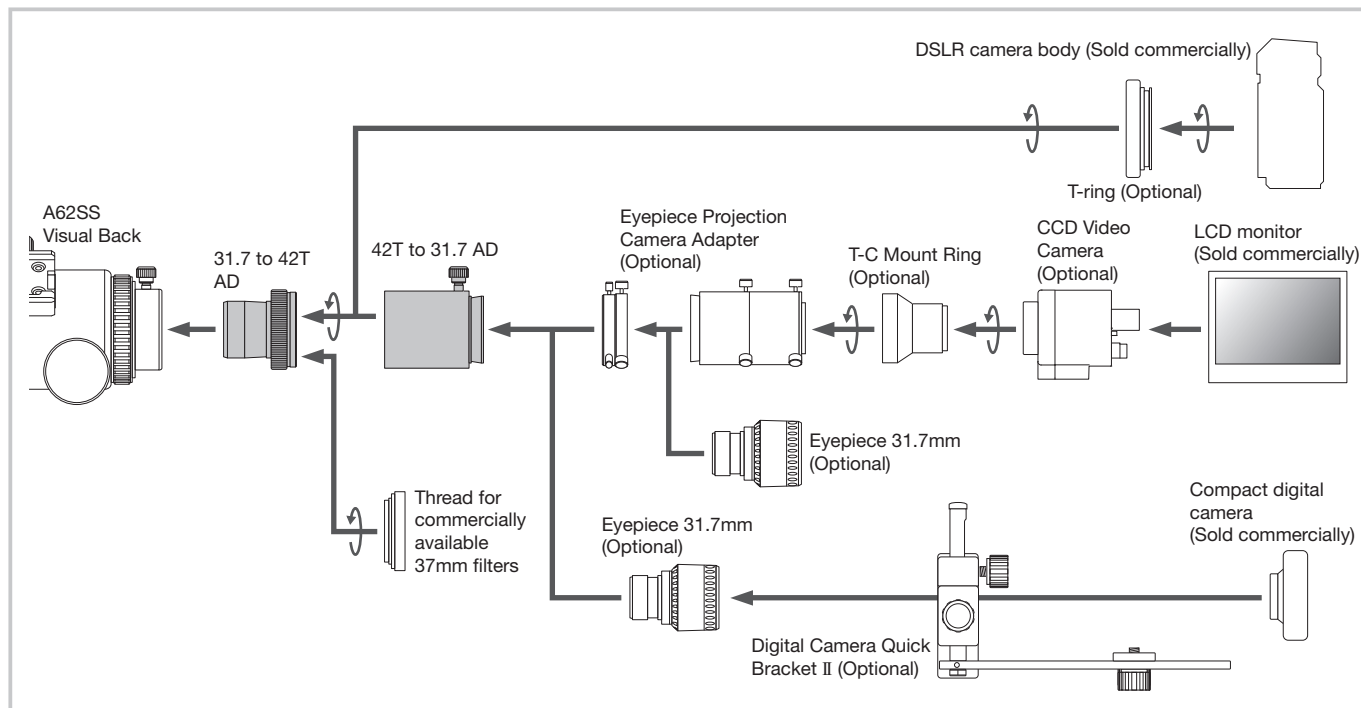


## Focusing the Telescope

Look through the A62SS with an eyepiece of low magnification. Turn the focus knob forward or backward as shown in the figure until images in the eyepiece's field of view come to focus clearly.



## A62SS Photographic Configuration



## Specifications

Model	A62SS
Objective Lens	Achromatic Lens, Multicoated Optics
Effective Aperture	62mm
Focal Length	520mm
Focal Ratio	1 : 8.4
Light Gathering Power	78X unaided eye
Resolving Power	1.87 arc sec.
Limiting Magnitude	10.7
Focuser Design	Crayford type focuser with rotatable mechanism
Threads	42mm for T-ring, 37mm for filter
Push-fit	31.7mm
Optical Tube Size	305mm (370mm at fully extended)
Outer Diameter	75mm in diameter
Weight	1.5 kgs / 3.3 lbs
Accessories	Carry Soft Case, Allen wrench of 3mm on a side

The Vixen logo is displayed in a bold, red, sans-serif font. The letter 'V' is particularly large and stylized, with a registered trademark symbol (®) to its upper right.