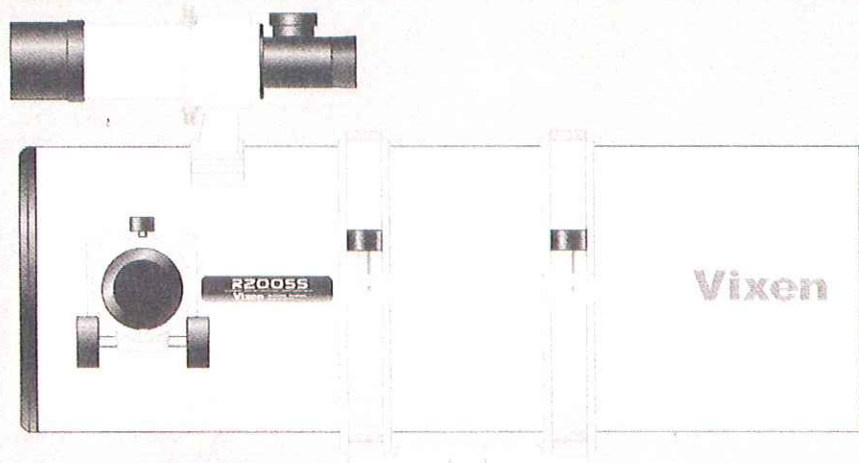
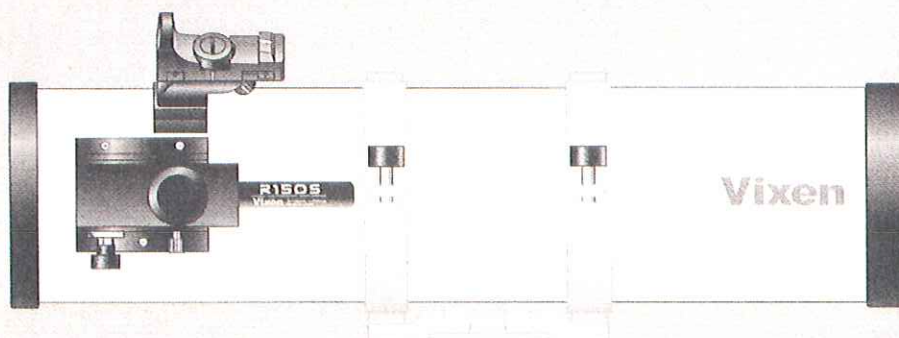


Vixen[®]

R150S R200SS Instruction Manual

REFLECTOR TELESCOPE



PREFACE

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

This manual applies to the R150S and R200SS telescope. You may occasionally find descriptions in the text not relevant to your particular model. Read the instructions for your mount along with this manual if you purchased the telescope as a complete package.

WARNING

Never look directly at the sun with the telescope or its finder or guide scope. 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.
- ⊗ Do not use the product in a wet environment and do not handle with wet hands.

HANDLING AND STORAGE

- Do not leave the product inside a car in bright sunshine or in other hot places. Keep any strong heat sources away from the product.
- When cleaning, do not use solvents such as paint thinner or similar products.
- Avoid touching any lens or mirror surfaces directly with your hands. In case a lens or mirror becomes dirty with fingerprints or general smears, gently wipe it using a commercially available lens cleaner and a lens cleaning paper or cloth, or consult your local Vixen Optics 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.

SETTING UP THE TELESCOPE

● Attaching the Telescope Tube to the Mount

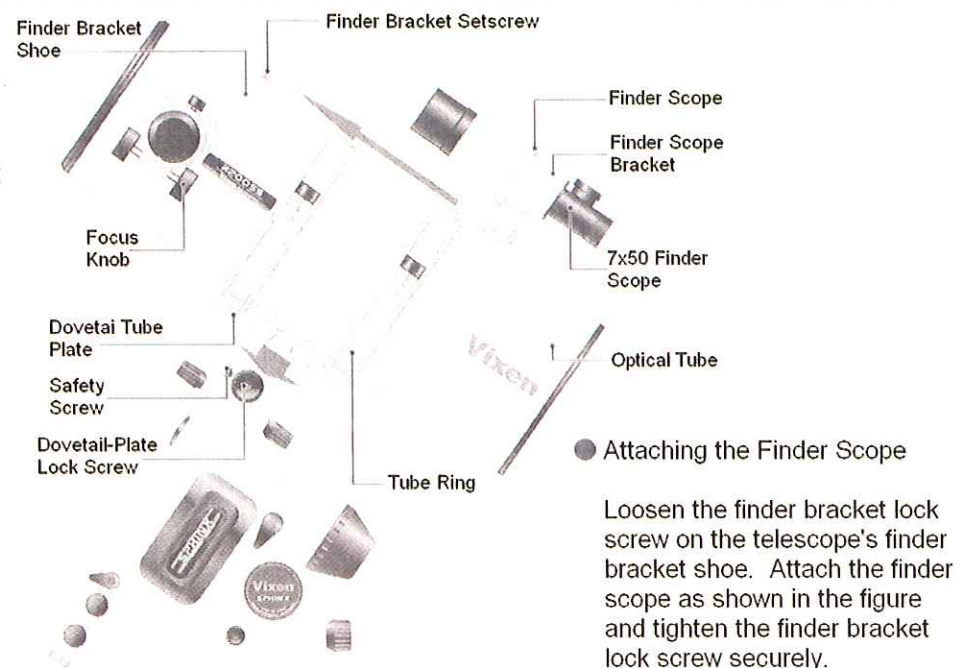
Loosen both the dovetail-plate lock screw and safety screw until the tips of these screws no longer extended into the inner part of the dovetail block.

Slide the dovetail mounted scope into the dovetail mounting block as shown in the figure.

Tighten the dovetail lock screw (centered on the notch) onto the dovetail tube plate until snug.

Then tighten the small chrome safety screw onto the dovetail mounting block until snug.

Refer to your mount instructions along with this manual.

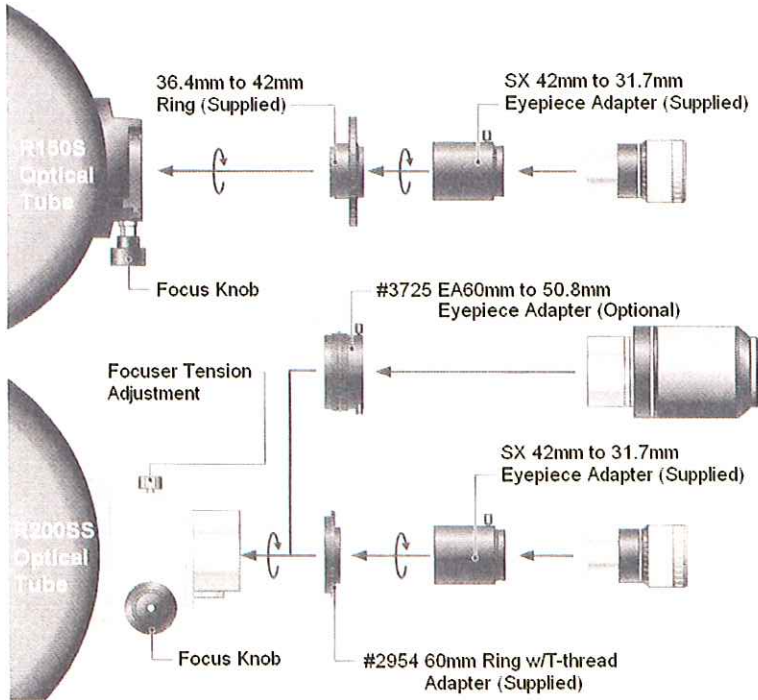


(SX mount and R200SS optical tube shown here.)

ACCESSORY CHART

You may need an eyepiece as sold separately. The telescope does not come with the eyepiece as standard accessory unless you purchased a package.

【 VISUAL CONFIGURATION 】



● Magnification of the Telescope

When using an eyepiece with short focal length (small number in millimeters), the image will be dim and the range of sharp focus will be small. The image will be harder to see so begin with an eyepiece with long focal length.

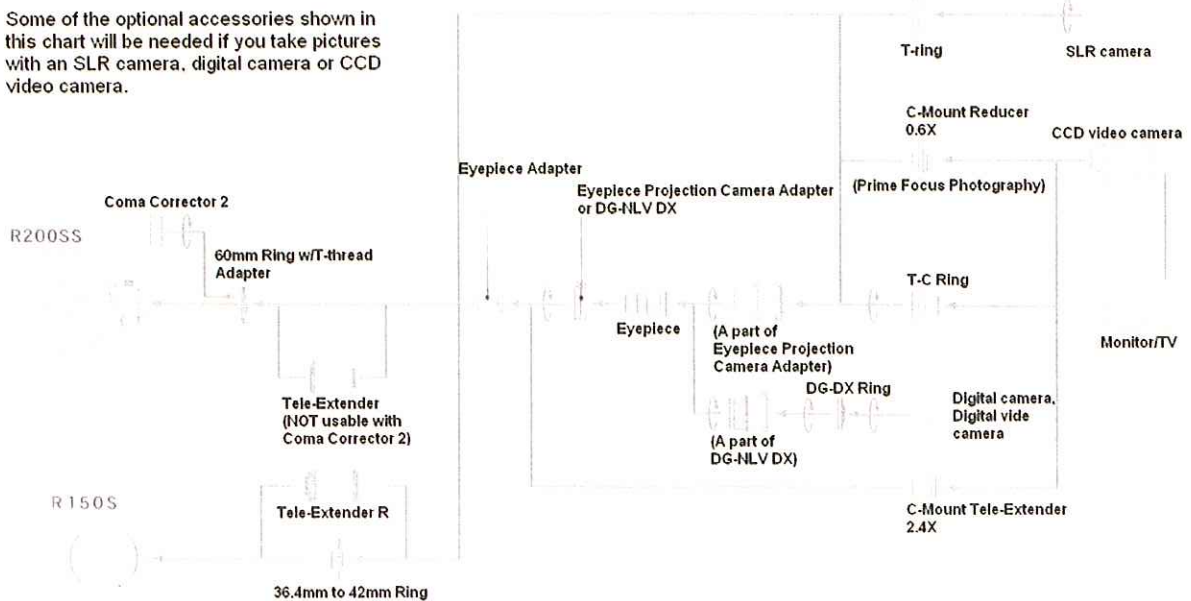
Dividing the focal length of the telescope by the focal length of the eyepiece gives the magnification.

Eyepiece	Focal length of telescope	÷	Focal length of eyepiece	=	Magnification
NLV 20mm	800mm	÷	20mm	=	40X
NLV 5mm	800mm	÷	5mm	=	160X

Example: Calculating the eyepiece magnification of a telescope with 800mm focal length.

【 PHOTOGRAPHIC CONFIGURATION 】

Some of the optional accessories shown in this chart will be needed if you take pictures with an SLR camera, digital camera or CCD video camera.



SPECIFICATIONS

The specifications are subject to change without notice.

	R1608	R20088
Item #	Parabolic mirror, Multicoated	Parabolic mirror, Multicoated
Optical Design	150mm	200mm
Effective Aperture	750mm	800mm
Focal Length	1 : 5	1 : 4
Resolving Power	0.77 arc.	0.58 arc.
Light Gathering Power	459X	816X
Tube Diameter, Length	176mm x 715mm	232mm x 700mm
Weight	4.8 Kg	5.3 Kg
Finder Scope	Red Dot Finder	7x50mm (field 6.8 degrees)
Threads	36.4mm, 42mm threaded for T-ring, 31.7mm push-fit	60mm, 42mm threaded for T-ring, 31.7mm push-fit
Photography	Prime focus and eyepiece projection	Prime focus and eyepiece projection

RE-COLLIMATION

Please contact a Vixen Optics dealer in your area for repair if your Vixen telescope is out of collimation or download specific instructions from www.vixenoptics.com

