

VIXEN

VC200L VMC200L



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PREFACE	Thank you very much for your purchase of a Vixen astronomical telescope
This manual applies to the VC200L and VMC200L telescopes. 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.
	Do not expose the product to rain, water, dirt or sand.
	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. Do not use compressed air.
	For storage, keep the product in a dry place and do not expose to direct sunlight.
SETTING UP THE TELESCOPE- Refer to your mount instructions along with this manual.	
ATTACHING THE TELESCOPE TUBE TO THE MOUNT	
<p>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.</p>	
(SX mount and VMC200L optical tube shown here.)	

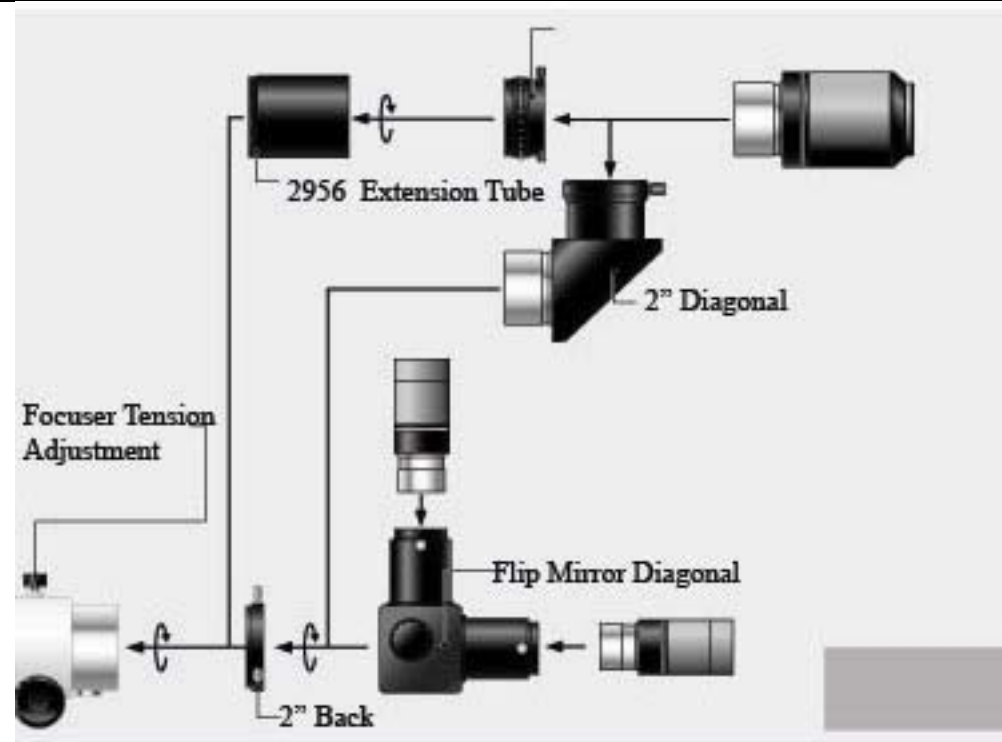
ATTACHING THE FINDER SCOPE

Loosen the finder bracket lock screw on the telescope’s finder bracket shoe. Attach the finder scope as shown in the figure and tighten the finder bracket lock screw securely.

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.

Example: Calculating the eyepiece magnification of a telescope with 1035mm focal length.

Eyepiece	Focal length of telescope	Focal length of eyepiece	Magnification
PL20mm	1800mm	20mm	90x
PL 5mm	1800mm	5mm	360x

PHOTOGRAPHIC CONFIGURATION

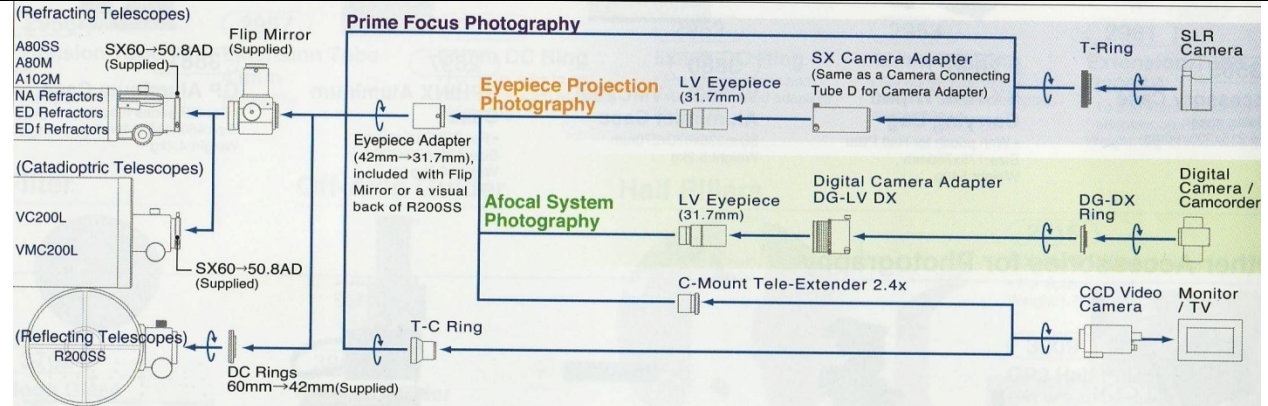
Prime focus Photography

Eye piece Projection Photography

Photography with Digital Camera

Photography with CMOScope or CCD Video Camera

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	VC200L	VMC200L
Item #	2632	2733
Optical Design	Modified Cassegrain (VISAC)	Modified Cassegrain
Effective Aperture	200mm	200mm
Focal Length	1,800mm (f/9.0)	1,950mm (f/9.75)
Resolving Power	.58 arc.; 13.3	.58 arc sec; 13.3
Light Gathering Power	816x	816x
Tube Diameter, Length & Weight	232mmx620mm; 6kg	232mmx535mm; 5.9kg
Finderscope	7x50mm (field 6.8)	7x50mm (field 6.8)
Threads	60mm, 42mm threaded for T-ring/50.8mm, 31.7mm push-fit	60mm, 42mm threaded for T-ring/50.8mm, 31.7mm push-fit
Magnification	LV20mm(90x), LV9mm(200x)	LV20mm(90x), LV9mm(200x)
Accessories	Flip Mirror, 7x50 Finder Scope	Flip Mirror, 7x50 Finder Scope
Photography	Prime Focus and Eyepiece Projection	Prime Focus and Eyepiece Projection
Total Weight	22.0 kg	21.9 kg

The specifications are subject to change without notice.

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

