

Vixen®

Using the Extender PH

Thank you for your purchase of a Vixen Extender PH. This is instructions for the Extender PH. Use the instructions in conjunction with your telescope manual.

⚠ WARNING!

Never look directly at the sun with your naked eye or through your telescope and finder scope. Permanent and irreversible eye damage may result.

⚠ Caution

- ⊘ Do not leave the product uncapped in the daytime. Sunlight passing through the product may cause a fire.
- ⊘ Do not use the product while traveling or walking, as injuries may arise from stumbling, falling or collision with objects.
- ⊘ Keep small caps, plastic bags or plastic packing materials away from children. These may cause choking or suffocation.
- ⊘ Do not use the product in a wet environment.

Extender PH

- The Extender PH extends a focal length by 1.4X while reducing aberration of a Newtonian telescope.

Optical Tube	Original focal length (F-ratio) → Used together with Extender PH	Image Circle
R200SS	800mm (F4) → 1120mm (F5.6)	44mm dia.

- Use this product in conjunction with accessories available optionally as the need arises.

Purpose	Combination
Prime focus photography	R200SS OTA + EX Tube 66 + Extender PH + Wide Photo Adapter 60mm (or Wide Photo Adapter 60DX) + T-ring
Prime focus photography	R200SS OTA + EX Tube 66 + Extender PH + T-ring
Visual observation	R200SS OTA + Extender PH + Eyepiece (31.7mm)

Note 1: It is recommended to use an optional shade (#3732) for the R200SS to prevent from stray light in astrophotography.

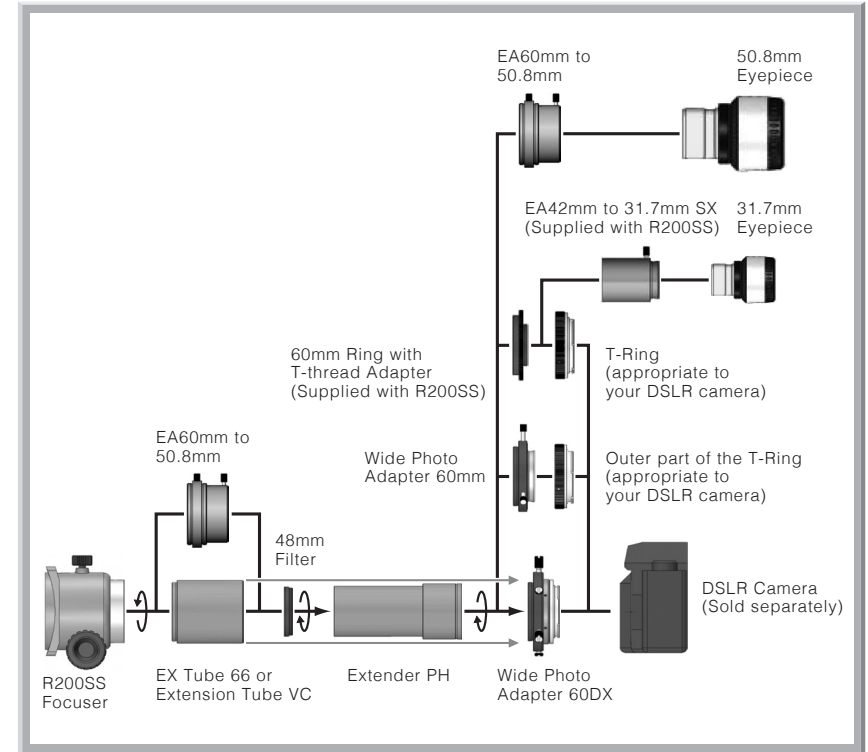
Note 2: The prime focus photography without using the Wide photo adapter 60mm may result in more vignetting light at the edge of field of imaging.

Note 3: The Extender PH is designed primarily for astrophotography. However, it is usable for visual observation in combination with a Vixen 31.7mm eyepiece.

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Attaching the Extender PH (for R200SS)

Attach the Extender PH and your DSLR camera (or imaging equipment) on the R200SS focuser in accordance with the diagram below.



Specifications

Model name	Extender PH
Applicable to	R200SS OTA
Lens design	4-element in 3-group
Coatings	AS coatings (99.9% light transmission per surface)
Magnifying power	1.4x
Focal length	1120mm (F5.6) with R200SS
Image circle	44mm diameter (available for 36mm x 24mm full-frame format), 70.2% illuminated field of view
Thread / Push fit	M56, pitch 0.75mm (male) / 50.8mm
Filter thread	48mm diameter (for commercially available filters)
Visual observation	Possible
Dimensions / Weight	56mm dia. x 128mm long / 245 g