

## 2" SV503 102F7 ED Doublet Refractor Telescope



## 2" SV503 70F6 ED Refractor OTA



## 2" SV503 80ED F7 Refractor Telescope OTA

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### Feature:

1. The appearance of the telescope is baked with high-end fine-grained paint, with exquisite appearance and delicate feel
2. The objective lens features a S-FPL51 extra-low dispersion glass ED element, which eliminates chromatic aberration. This results in the best color correction for an ED doublet lens
3. The lens adopts optical processing and low polishing technology, which is carefully carved
4. The deceleration ratio of the two-speed 2" toothed focusing seat is 1:10, which makes it easy to achieve accurate focus
5. Metal hoop ring and 2" to 1.25" adapter, you can use it with 2" and 1.25" focuser
6. The focuser can hold >5kg equipment and do 360° rotation to adjust image angle.

**Specification:**

	SV503 70F6 ED	SV503 80F7 ED	SV503 102F7 ED
Product Name	Astronomy Telescope	Astronomy Telescope	Astronomy Telescope
Type	Refractor	Refractor	Refractor
ED Glass	S-FPL51	S-FPL51	S-FPL51
Coating	SMC	SMC	SMC
Aperture	70mm / 2.75-Inch	80mm /3-Inch	102mm / 4.01-Inch
Focal length	420mm	560mm	714mm
Focal Ratio	f/6	f/7	f/7
Type of Focuser	RAP (Rack and Pinion)	RAP (Rack and Pinion)	RAP (Rack and Pinion)
Gear Reduction	1:10 Fine movement	1:10 Fine movement	1:10 Fine movement
Resolving capacity	1.97"	1.5"	1.17"
Limit value	11.3	11.6	12.1
Light gathering capacity	100x	130.6x	212x
Max. Useful magnification	140x	160x	204x
Tube/total weight	2.22kg/3.35kg	2.9kg/3.95kg	4kg/5.2kg
Tube outer diameter	88mm	92mm	121mm
Tube material	Aluminum	Aluminum	Aluminum
Back Focus Length	90mm	90mm	101.9mm
OTA Length	318mm/12.52inch	465mm	630mm
Dovetail & Ring	Yes	Yes	Yes
Dovetail Length	150mm	137mm	200mm
Package size	455*210*190	540*230*215	785*250*245

**FAQ**

1. I did notice while able to achieve good focus with the camera i was not able to do so with an Svbony eye piece and am wondering. which eyepieces work or do i need a some sort of extension tube?

SV503 is a short FL refractor, you will need an extension tube (70mm) is fine or a diagonal like the SV188P to extend the focal length as the SV503 is short FL telescope to reduce CA and gather more light information.I test the 6mm to 34mm eyepiece with SV503 80ED and SV188P diagonal, all can work well.

2. The OTA tube to back focuser screw size(Black to white boundry):

70ED: M82X1  
80ED: M86x1  
102ED: M104.5X1



3. The accessory you may need for the SV503.

<https://www.svbony.com/blog/What-accessories-do-you-use-with-SV503/>

4. Screw specification:

**The front end screw size: M3**



**SV503 hoop screw size: M6 and 1/4"**



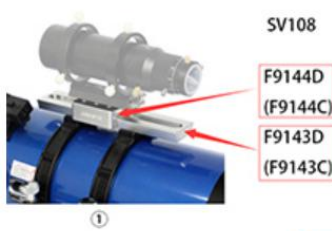
**SV503 Dovetail width:**

3.8cm

4.3cm



5. Different SVBONY finder's installation methods



SV108  
50mm Guide Scope  
F9144D  
(F9144C)  
F9143D  
(F9143C)



**Different Finders and 3 Methods to Mount:**  
 a. use dovetail mounting plate and dovetail clamp on the middle (e.g. ①)  
 b. use dovetail Base and mounting Plate On the front end(e.g. ②③⑤⑥⑦)  
 c. use dovetail Base and screws (e.g. ④)



Quickly for Sun Positioning

⑥ F9168A-W2370A

