

Askar D80ED F7 ED Doublet Refractor Instruction Manual

July 3,
2025

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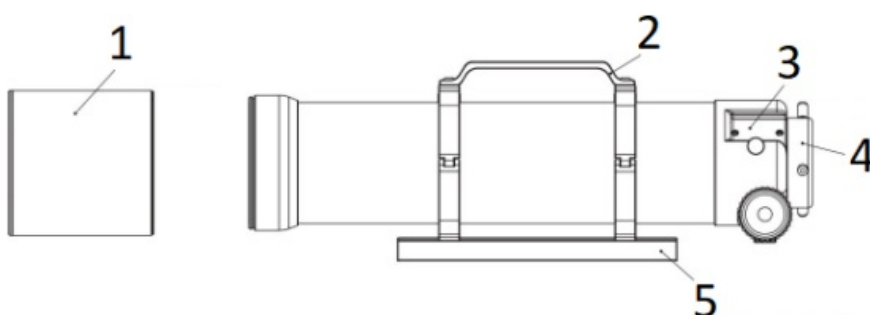
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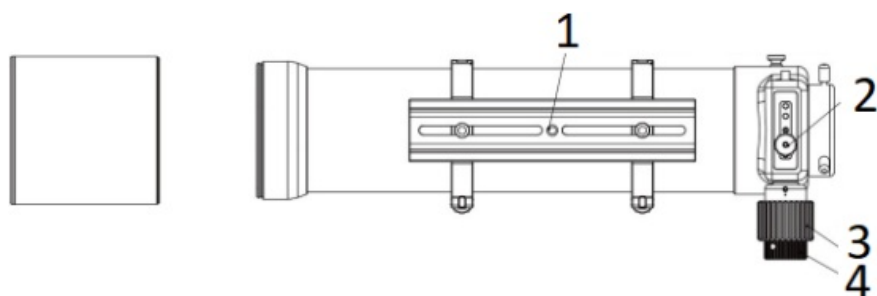
Askar 80ED F7 ED Doublet (D80ED)

Product Size Diagram

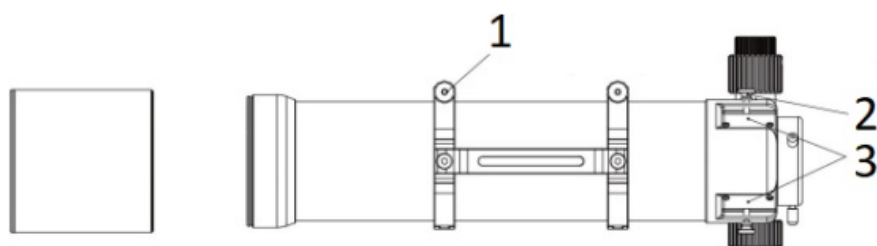


1. Dew shield

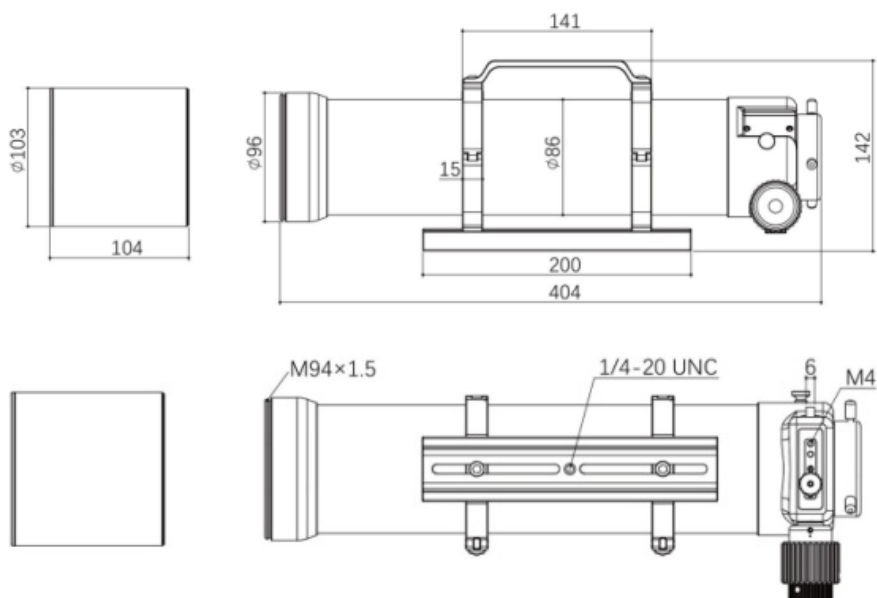
2. Handle
3. Finder base
4. 2" adapter
5. 200mm Vixen style dovetail plate

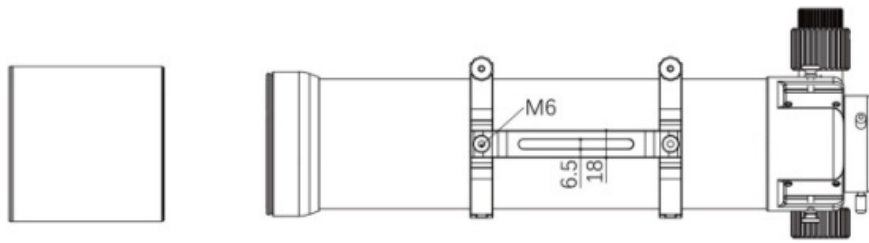


1. Quick-release plate mounting hole
2. Bottom locking screw
3. Coarse adjustment handwheel
4. Fine adjustment handwheel

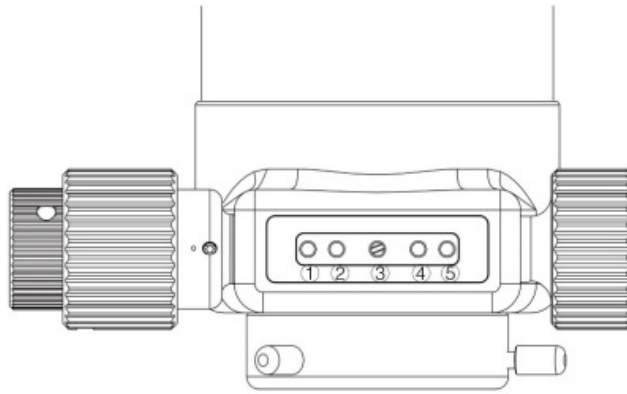


1. Tube ring locking screw
2. Finder base locking screw
3. Finder base





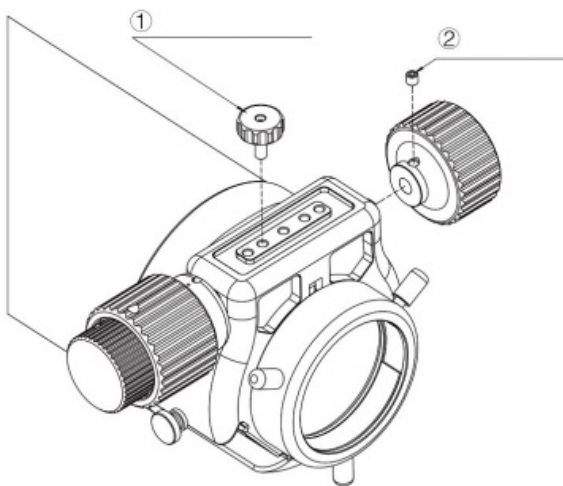
The Locking Screw Position Diagram



(2) Bottom Locking Screw

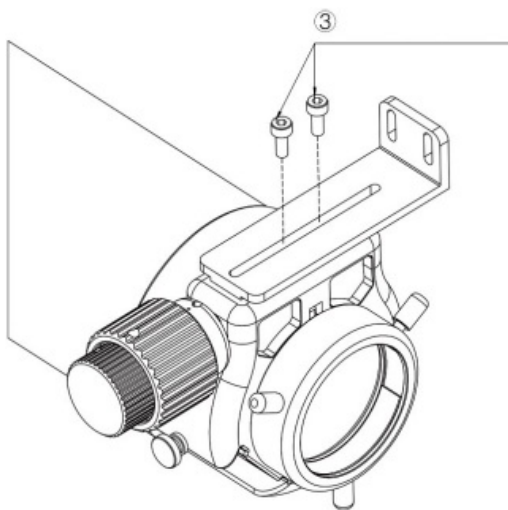
(1)(3)(4)(5) Can be used for electric focusing bracket installation

Electronic Focuser Assembly Diagram

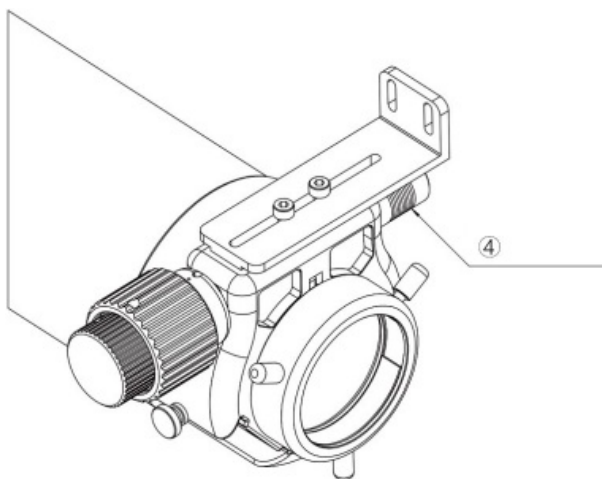


(1) Remove the thumb screw

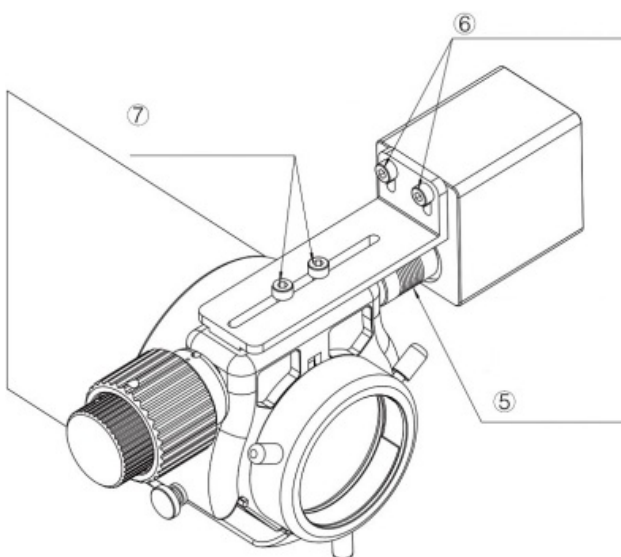
(2) Remove the coarse adjustment knob with a 2mm wrench



(3) Put the motor bracket on and screw the standard M4 screws into the hole shown, but please do not lock them now.



(4) Choose the 5-6mm flexible coupling and lock this screw.



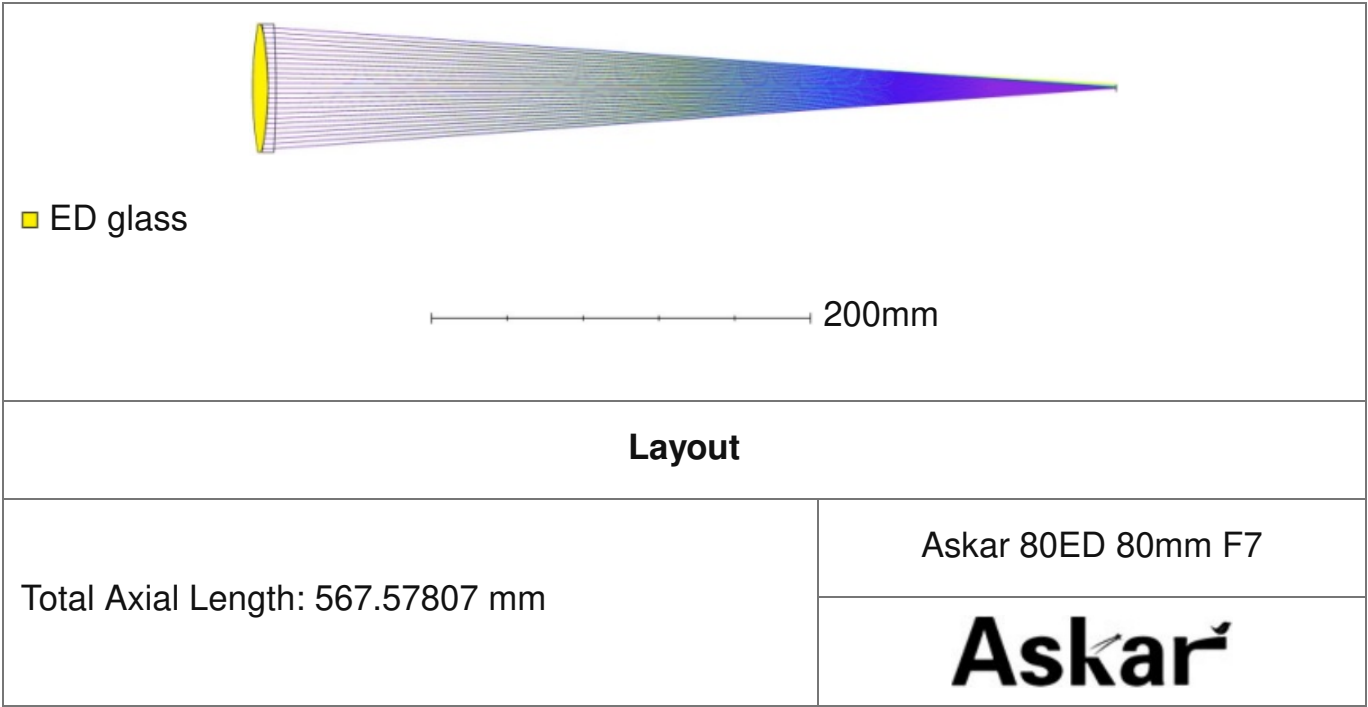
(5) Insert the EAF(optional) into the flexible coupling and lock the coupling end locking

screw.

(6) Lock the EAF mounting screws

(7) Finally, lock the M4 fixing screws

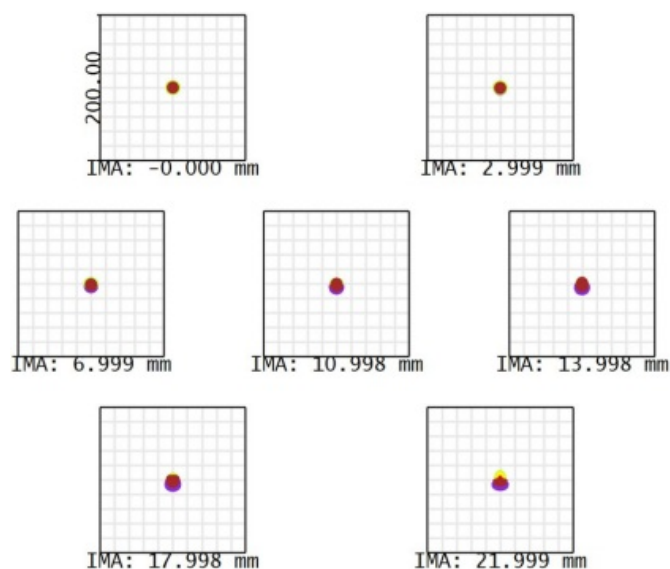
Optical Path Diagram



Spot Diagram

X = 42.22, Y = 88.22

- ☒ 0.43
- ☒ 0.45
- ☒ 0.486
- ☒ 0.546
- ☒ 0.587
- ☒ 0.656
- ☒ 0.68



Surface: IMA

Spot Diagram

Units are μm . Legend items refer to Wavelengths

Field : 1 2 3 4 5

6 7

RMS radius : 3.999 4.017 4.105 4.293 4.509 4.758
5.110

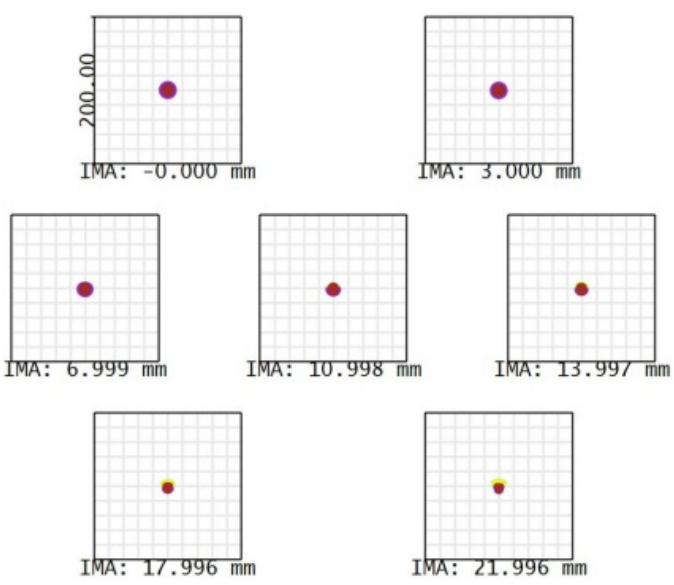
GEO radius : 8.942 9.379 11.378 13.342 14.289 14.45
0 13.472

Box width : 200 Reference : Centroid

Askar 80ED 1.0x Flattener

Askar

- ☒ 0.43
- ☒ 0.45
- ☒ 0.486
- ☒ 0.546
- ☒ 0.587
- ☒ 0.656
- ☒ 0.68



Surface: IMA

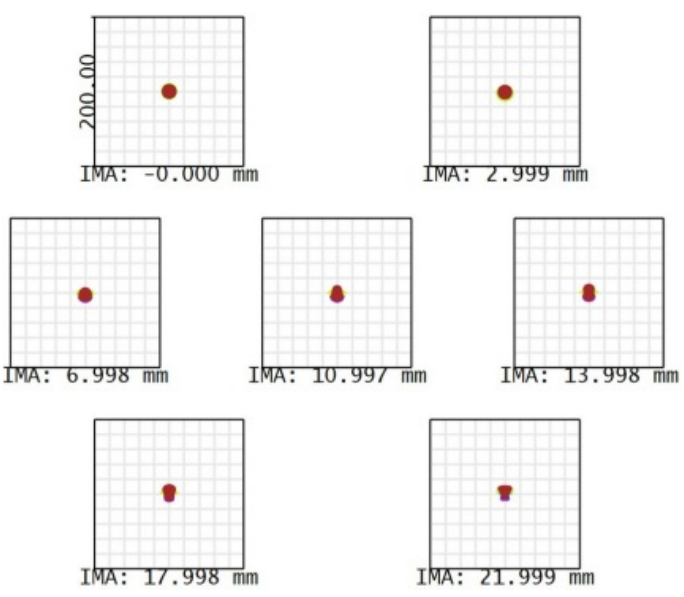
Spot Diagram

Units are μm . Legend items refer to Wavelengths						
Field	:	1	2	3	4	5
6	7					
RMS radius : 4.039 4.022 3.909 3.940 4.081 4.347						
4.631						
GEO radius : 10.782 11.137 10.837 9.905 9.155 9.54						
2 10.584						
Box width : 200 Reference : Centroid						

Askar 80ED 0.85x Reducer



- ☒ 0.43
- ☒ 0.45
- ☒ 0.486
- ☒ 0.546
- ☒ 0.587
- ☒ 0.656
- ☒ 0.68



Surface: IMA

Spot Diagram

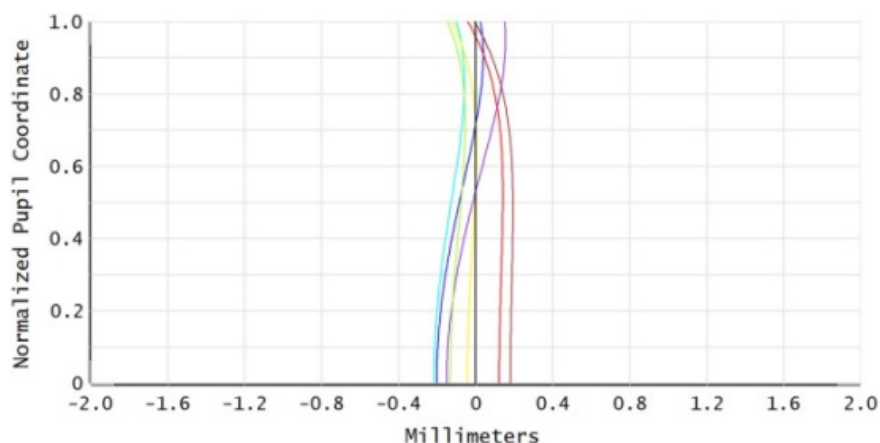
Units are μm . Legend items refer to Wavelengths						
Field	:	1	2	3	4	5
6	7					
RMS radius :	4.477	4.563	4.472	4.428	4.351	4.206
	4.526					
GEO radius :	9.913	12.193	11.779	11.605	10.937	12.57
7	12.221					
Box width	:	200	Reference : Centroid			

Askar 80ED 0.7x Red
ucer

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Longitudinal Aberration

Pupil Radius: 40.0000 Millimeters



0.430 0.450 0.486 0.546 0.587 0.656 0.680

Longitudinal Aberration

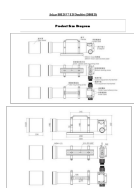
Wavelengths: From 0.430 To 0.680 μm

Legend items refer to Wavelengths

Askar 80ED 80mm F7

Askar

Documents / Resources



[Askar D80ED F7 ED Doublet Refractor \[pdf\]](#) Instruction Manual

D80ED F7 ED Doublet Refractor, D80ED, F7 ED Doublet Refractor, Doublet Refractor, Refractor

References

- [User Manual](#)

Askar, D80ED, D80ED F7 ED Doublet Refractor, Doublet Refractor, F7 ED Doublet Refractor,

Askar Refractor

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