

Configuration 140

TS600ASI2600CAAR

All measures in [mm]



Active

Identifier

TS600ASI2600CAART273

Old

Standard TS600 configuration M54 – rotating filter

L	Telescope or Camera Lens	TSO APO 90/600		
	<input type="text" value="599"/> Focal Length (f-OL)	Type	<input type="text" value="Telescope"/>	Brand <input type="text" value="TS-Optics"/>
	<input type="text" value="1"/> Optical Factor (Reducer/Barlow)	Type Of Build	<input type="text" value="APO Triplet Refractor"/>	
	<input type="text" value="599,0"/> Resulting Focal Length [mm]	Aperture [mm]	<input type="text" value="90"/>	F-Stop <input type="text" value="6,7"/>
O	Other Optical Devices and Special Components	M54 ZWO ASI CAA Rotator	Magnification	<input type="text" value="1"/>
C	Camera Details	ZWOASI2600	ZWO Optical	ZWOASI2600

T Configuration Details (Sequence from telescope to camera sensor)

Pos.#	Telescope Tail Component	Optical Length	Weight [g]	Brand
0	TS600/90 Tube w/o focuser	0,00	2.853,0	TS Optics
1	M90 50mm Extension TS600	50,00	100,0	TS Optics
2	M90 50mm Extension TS600	50,00	100,0	TS Optics
3	M90 TS600 Rack + Pinion Focuser + EAF	77,25	1.923,0	TS-Optics
4	M63m-M48m Adapter	3,00	45,0	TS-Optics
5	M48-M54 Rotator Changer	8,00	52,0	TS-Optics
6	M54 Extension 21	21,00	50,0	ZWO Company
7	M54 ZWO ASI CAA Rotator	16,50	465,0	ZWO Company
8	M54 Extension 5	5,00	22,0	TS-Optics
9	M54 Filter Slider w. Filter	17,50	107,0	TS-Optics
10	M54 Finetuning Ring 0.5mm	0,50	10,0	TS-Optics
11	M54 Extension 7	7,00	25,0	TS-Optics
12	ASI 2600 MC AIR	17,50	760,0	ZWO Company

Total Length in mm Weight [gr]

V Focus Calculation

Telescope Backfocus [L]	<input type="text" value="312,20"/>	Virtual Optical Path [Fol - Fbak]	<input type="text" value="286,8"/>
./ Telescope Tail Length	<input type="text" value="273,25"/>		

Results	No Filter	With Filter
Calc. Focuser Pos. [mm]	<input type="text" value="38,95"/>	<input type="text" value="39,97"/>
Calculated EAF Position [steps]	<input type="text" value="13429"/>	<input type="text" value="13780"/>
Measured EAF Position [steps]	<input type="text" value="13388"/>	<input type="text" value="13589"/>
Measured Focuser Pos. [mm]	<input type="text" value="38,83"/>	<input type="text" value="39,41"/>

E Focuser and EAF Parameter

M90 TS600 Rack + Pinion Focuser	
Config uses EAF? <input checked="" type="checkbox"/>	EAF max <input type="text" value="28500"/> EAF Backlash <input type="text" value="20"/>
EAF Stepsize [mm/step] <input type="text" value="0,00290"/>	Max. Travel Distanc <input type="text" value="82,66"/> EAF Accuracy <input type="text" value="1"/>

Rule: add ~ 351 EAF steps for 2" filter

Calculated Optical Parameters

Horizontal FoV [°]	<input type="text" value="2,25"/>	Pixel Size [µm]	<input type="text" value="3,76"/>	Dawes Limit	<input type="text" value="1,7429"/>
Vertical FoV [°]	<input type="text" value="1,50"/>	OpticalScale [arcs/pixel]	<input type="text" value="1,2952"/>		