

Configuration 125

TS600ASI2600CAA

All measures in [mm]



Active Identifier **TS600ASI2600ZWOCAT274**

Old

TS600 Standard Config with CAA

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
<input type="text" value="0"/>	<input type="text" value="TS600/90 Tube w/o focuser"/>	<input type="text" value="0,0"/>	<input type="text" value="2.853,0"/>	<input type="text" value="TS Optics"/>
<input type="text" value="1"/>	<input type="text" value="M90 50mm Extension TS1624"/>	<input type="text" value="50,0"/>	<input type="text" value="271,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="2"/>	<input type="text" value="M90 50mm Extension TS1624"/>	<input type="text" value="50,0"/>	<input type="text" value="271,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="3"/>	<input type="text" value="M90 TS600 Rack + Pinion Focuser + EAF"/>	<input type="text" value="77,3"/>	<input type="text" value="1.923,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="4"/>	<input type="text" value="M63m-M48m Adapter"/>	<input type="text" value="3,0"/>	<input type="text" value="45,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="5"/>	<input type="text" value="M48 Rotator Changer"/>	<input type="text" value="8,0"/>	<input type="text" value="52,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="6"/>	<input type="text" value="M54m-M48f 1,5mm Adapter"/>	<input type="text" value="1,5"/>	<input type="text" value="50,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="7"/>	<input type="text" value="M54 Extension 21"/>	<input type="text" value="21,0"/>	<input type="text" value="50,0"/>	<input type="text" value="ZWO Company"/>
<input type="text" value="8"/>	<input type="text" value="M54 ZWO ASI CAA Rotator"/>	<input type="text" value="16,5"/>	<input type="text" value="465,0"/>	<input type="text" value="ZWO Company"/>
<input type="text" value="9"/>	<input type="text" value="M54 Extension 5"/>	<input type="text" value="5,0"/>	<input type="text" value="22,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="10"/>	<input type="text" value="M48 Filter Slider"/>	<input type="text" value="18,0"/>	<input type="text" value="100,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="11"/>	<input type="text" value="M54 Extension 7"/>	<input type="text" value="7,0"/>	<input type="text" value="25,0"/>	<input type="text" value="TS-Optics"/>
<input type="text" value="12"/>	<input type="text" value="ASI 2600 MC AIR"/>	<input type="text" value="17,5"/>	<input type="text" value="760,0"/>	<input type="text" value="ZWO Company"/>
Total		Length in mm	<input type="text" value="274,8"/>	<input type="text" value="6.887,0"/> Weight [gr]

V Focus Calculation

<input type="text" value="312,2"/>	Telescope Backfocus [L]	Virtual Optical Path [Fol - Fbak]	<input type="text" value="286,8"/>
<input type="text" value="274,8"/>	./. Telescope Tail Length [T]	EAF Steps	
<input type="text" value="37,5"/>	= Calc. Focuser Pos. [mm]	Calculated EAF Position	<input type="text" value="12912"/>
<input type="text" value="39,43"/>	Measured Focuser Pos. [mm]	Measured EAF Position	<input type="text" value="13597"/>

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"/>

EAF initial focus settings: add ~ 95 steps per 1.0mm filter thickness (e.g. OLeN is ~ 2mm thick > add 190 steps)

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"/>