

Configuration 137

TS1624cAS294CAA

All measures in [mm]

☒ Active Identifier **TS1624crtASI294ZWCAAT240**

Old

L	Telescope or Camera Lens		TSO RC 203/1624c			
	1609	Focal Length (f-OL)	Type	Telescope	Brand	TS-Optics
	1	Optical Factor (Reducer/Barlow)	Type Of Build	Ritchey-Chretien Reflector		
	1609,0	Resulting Focal Length [mm]	Aperture [mm]	203	F-Stop	7,9
O	Other Optical Devices and Special Components		M54 ZWO ASI CAA Rotator	Magnification	1	
C	Camera Details		ZWOASI294	ZWO Optical	ZWOASI294	

T Configuration Details (Sequence from telescope to camera sensor)

Pos.#	Telescope Tail Component	Optical Length	Weight [g]	Brand
0	TS1624c Tube+EAF+RPFocuser	0,0	7.408,0	TS-Optics (carbon)
1	M90 50mm Extension TS1624	50,0	271,0	TS-Optics
2	M90 Tilting Flange Adapter	15,0	221,0	TS-Optics
3	M90 TS1624 Rack Pinion Focuser	85,0	0,0	TS-Optics
4	M63m-M48m Adapter	3,0	45,0	TS-Optics
5	M48-M54 Rotator Changer	8,0	52,0	TS-Optics
6	M54 Extension 21	21,0	50,0	ZWO Company
7	M54 ZWO ASI CAA Rotator	16,5	465,0	ZWO Company
8	M54 Finetuning Ring 0.5mm	0,5	10,0	TS-Optics
9	M54 Filter Slider w. Filter	17,5	107,0	TS-Optics
10	M54f-T2m Adapter	6,0	0,0	TS-Optics
11	T2 ZWO Ring	11,0		ZWO Company
12	ASI294MC PRO	6,5	410,0	ZWO Company
Total		Length in mm	240,0	9.039,0 Weight [gr]

V	Focus Calculation			
	254,0	Telescope Backfocus [L]	Virtual Optical Path [Fol - Fbak)	1355,0
	240,0	./. Telescope Tail Length [T]	EAF Steps	
	14,0	= Calc. Focuser Pos. [mm]	Calculated EAF Position	4249
	0,00	Measured Focuser Pos. [mm]	Measured EAF Position	0

E	Focuser and EAF Parameter		M90 TS1624 Rack Pinion Focuser (Tilt Flange)			
A	Config uses EAF?	☒	EAF max	30746	EAF Backlash	140
F	EAF Stepsize [mm/step]	0,00329	Max. Travel Distanc	99,18	EAF Accuracy	1,0214

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 [°]	0,68	Pixel Size [µm]	4,63	Dawes Limit	1,4635
Vertical FoV [°]	0,46			OpticalScale [arcs/pixel]	0,5936