

Configuration 135

TS1624cAS294rt

All measures in [mm]


☒ Active Identifier **TS1624crtASI294T224**

Old

TS1624c standard config with WO-Rotator

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		M63 WO 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	M63 WO Rotator	20,6	300,0	William Optics	
5	M63m-M48m Adapter	3,0	45,0	TS-Optics	
6	M48-M48 Rotator Changer	8,0	52,0	TS-Optics	
7	M48-T2 Adapter 7.5	7,5	9,0	TS-Optics	
8	T2 Filter Slider + Filter	18,0	119,0	TS-Optics	
9	T2 ZWO Ring	11,0		ZWO Company	
10	ASI294MC PRO	6,5	410,0	ZWO Company	
Total		Length in mm	224,6	8.835,0	Weight [gr]

V	Focus Calculation			
	254,0	Telescope Backfocus [L]	Virtual Optical Path [Fol - Fbak]	1355,0
	224,6	./ . Telescope Tail Length [T]		EAF Steps
	29,4	= Calc. Focuser Pos. [mm]	Calculated EAF Position	8923
		Measured Focuser Pos. [mm]	Measured EAF Position	

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	