

ObservationReport

ObservationID

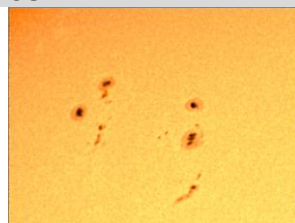
167

on 2022-11-13 12:32

Object

Common Name Sun
Alternate Name Sonne, Sun
Visual Magnitude 0
Distance ► Object
Apparent Size
Object R.A.
Object DEC
WikiLink <https://en.wikipedia.org/wiki/Sun>

SOL



20221113-123226_SOL_ZWOASI294_7234.JPG

Link ► Picture [SOL_20221113](#)

Description

Constellation

Picture Data

Work Status	Recorded	Quality	****
Format	Video	Picture Center R.A.	
Tot./Act. Frames/Pane	60 1	Picture Center DEC	
H / V Panes	1 1	H/V FoV [°]	0,8418 0,5730
Exp. [s] / Frame	1/1000	Above horizon [°]	0
Total Time / Pane [min]	0,00 0,00		

Camera Data

	ZWO	ASI294MC-Pro	ZWOASI294
Camera Angle [°]	0	Pixel Pitch [µm]	4,63
Gain or ISO	114	Camera Temp. °C	19,7

Observation Data

Observation Start	2022-11-13T12:32:26 UTC+/- +1h	Observation End	2022-11-13T12:32:26
Observation Site	DE GÖ MBR	Site Elevation /Bortle	182 5
Province	NDS	Site Coordinates	51° 34' N, 9° 56' E

Sky & Moon

Sky Quality	1,12	Outside Temp. °C	10
Seeing Index 1	4	Seeing Index 2	2
Moon Phase	UNKNOWN	Moon Age [d]	0
Moon Percent %	0	Distance ► Target	UNKNOWN
MoonRise		MoonSet	

Optical Config.

	Config51	L:3_E:0_C:1_O:-_T:0_F:Asol	
Lens or Scope	SkyWatcher MC102/1300	FocalLength [mm]	1300
Type Of Build	Maksutov Reflector	Diameter [mm]	102
Brand	SkyWatcher	Aperture / f-stop	12,75
Additional Optics	-	DawesLimitLink	,91 Arcsec
Filter	Astrozap Solar	Optical Scale ["/px]	0,735

Other Hardware & Software

GuideScope	None	Mount	iOptron iEQ45 Pro
GuiderHW	ASiAirPro	SessionControl	ASiAirPro
GuiderSW	NONE	PostProcessingSW	ASiAirPro

More ...

Work Folder [20221113-123226_SOL_GÖ-MBR](#)

Remarks **ZWO ASI294MC Pro Video Capture of SOL using the Skywatcher MC102/1300 Skywatcher MC102/1300, AstroSolar Filter and ZWO ASI294 MC-Pro and using ASIAR stacking features**
This observation is part of 4 a set of 4 observations on the same day and completes the test.

Test Result:

It turns out that with the sun standing low in the south and some air turbulences shorter video captures are better than longer ones. In this case 2 seconds of video resulted in a far better final stacked image than e.g. 19 seconds.

Video Recording Settings:

Bin = 1, Capture Area Size = 640 * 480, Colour Format = RAW8, Exposure = 0.001 Sec, Flip = None, Gain = 114, StartX = 1752, StartY = 1168
Temperature = 19.7 C, Bayer = RG, White Balance (B) = 39, White Balance (R) = 56,
Duration=2 Sec