

# ObservationReport

ObservationID

**0167**

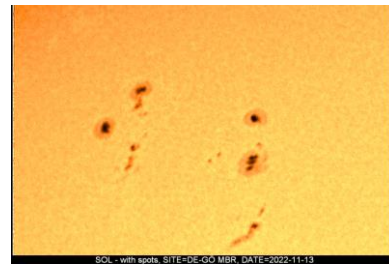
on

2022-11-13 12:32

all measures in mm



<b>Object</b>	<b>SOL</b>
Common Name	Sun
Alternate Name (s)	Sonne, Sun
Visual Magnitude	0
Distance ► Object	
Apparent Size	32.3'
Object R.A.	
Object DEC	
WikiLink	<a href="https://en.wikipedia.org/wiki/Sun">https://en.wikipedia.org/wiki/Sun</a>



20221113\_SOL\_ASI294\_0167-02WM.jpg

Link ► Picture [SOL\\_20221113](#)  
Description  
Constellation

## Picture Data

Work Status	Published	Quality	****
Source Format	Video	Picture Center R.A.	
Tot./Act. Frames/Pane	2 60	Picture Center DEC	
H / V Panes	640 480	H/V FoV [°]	538,7469 275,0174
Exp. [s] / Frame	1/1000	Above horizon [°]	0
Total Time / Pane [min]	307,20 0,00	View Direction	N
<b>Camera Data</b>	<b>ZWO Optical</b>	<b>ASI294MC-Pro</b>	<b>ZWOASI294</b>
Camera Angle [°]	0	Pixel Pitch [µm]	4,63
Gain or ISO	114	Camera Temp. °C	19,7

## Observation Site

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

## Sky & Moon

Sky Index   Total Clouds	2,8 0 %	Moon Rise   Set	
Outside Temp. °C	10	Moon Age [d]	0
Moon Phase   % Illum.	UNKNOWN 0 %	Moon ► Target Dist.	UNKNOWN

## Optical Configuration

<b>SW1300A294</b>	<b>SW1300ASI294</b>		
Lens or Scope	SkyWatcher MC102/1300	Focuser	-
Type Of Build	Maksutov Reflector	Focuser Position [mm]	EAF Steps 0
Brand	SkyWatcher	Optical Factor	1
Additional Optics	-	FoL norm actual [mm]	1300 1300
Filter	Astrozap Solar	<a href="#">DawesLimitLink</a>	<a href="#">.91 Arcsec</a>
Diameter [mm]	102	Optical Scale ["/px]	0,735
Aperture / f-stop	12,75		

## Other Hardware & Software

GuideScope	NONE	Mount	iOptron iEQ45 Pro
GuiderHW	ASiAirPro	SessionControl	ASiAirPro
GuiderSW	NONE	PostProcessingSW	ASI AIR Stacking

## More ...

Work Folder [2022\20221113\\_SOL\\_0167\\_GOE-MBR](#)

Comment with spots

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