ObservationReport

ObservationID **0137** on 2022-10-06 23:05

all measures in mm

Object	**Jupiter**				
Common Name					
Alternate Name (s)					
Visual Magnitude	-2,9				
Distance ▶Object	3,97AE				
Apparent Size	49,6 arcsec				
Object R.A.					
Object DEC					
WikiLink	https://en.wikipedia.org/wiki/Jupiter				

20221006_Jupiter_ASI294_0137-03WM.jpg

Link ▶Picture	Jupiter_20221006				
Descpription	Planet				
Constellation					
Picture Data					
Work Status	Published		Quality	***	
Source Format	Video		Picture Center R.A.		
Tot./Act. Frames/Pane	20	24390	Picture Center DEC		
H / V Panes	1	1	H/V FoV [°]	1,8268	1,2434
Exp. [s] / Frame	1/12,1951219512195		Above horizon [°]	45	
Total Time / Pane [min]	33,33	33,33	View Direction	124,1 SE	
Camera Data	**ZWO Optical**		**ASI294MC-Pro**	**ZWOASI294**	
Camera Angle [°]	0		Pixel Pitch [µm]	4,63	
Gain or ISO	259		Camera Temp. °C	-10	
Observation Site					
Observation Start	2022-10-06T23:05:12	UTC+/- +1h	Observation End	2022-10-06T23:05:12	
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	%	Moon Rise | Set	18:10:00	04:24:00
Outside Temp. °C	7		Moon Age [d]	11,1	
Moon Phase |% Illum.	2nd quarter	89 %	Moon ▶Target Dist.	27°	
Optical Configuration	**TS600AS294**		**TS600ASI294T252**		
Lens or Scope	TSO APO 90/600		Focuser	M90 TS600 Rack + Pinion	
Type Of Build	APO Triplet Refractor		Focuser Position [mm]	0,00	EAF Steps 0
Brand	TS-Optics				
Addtional Optics	M63 WO Rotator		Optical Factor	1	
Filter	-		FoL norm|actual [mm]	599	599
Diameter [mm]	90		DawesLimitLink	1,74 Arcsec	
Aperture / f-stop	6,66		Optical Scale ["/px]	1,595	
Other Hardware & Software					
GuideScope	Omegon 50/200		Mount	iOptron iEQ45 Pro	
GuiderHW	ASiairPro		SessionControl	ASiairPro	
GuiderSW	NONE		PostProcessingSW	ThumbsPlus, PS, ASIAIRStacking	
More ...					
Work Folder	2022\20221006_Jupiter_0137_GOE-MBR				
Comment	+ 2 moons				
Remarks	My first picture of Jupiter using ASIAIR video mode and stacking. 2 Moons are barely visible on it's right side. Format: 320x240 px				

exposure time: 1/12s or 0,082s
duration: 20s
Image stacking: ASIAIR-stacking
Image enhancement: Photoshop
Format conversion to 3:2: ThumbsPlus
Pixel upscaling to 1625x1083: ThumbsPlus