ObservationReport

all measures in mm | ObservationID 0022 on 2022-03-27 20:29

Object	M51				
Common Name	Whirlpool Galaxy				
Alternate Name (s)	NGC5194, NGC5195				
Visual Magnitude	7,92				
Distance ▶Object	28 Mly				
Apparent Size	13,7x11,7'				
Object R.A.	13h 30m 48,42s				
Object DEC	+47° 04' 54.7"				
WikiLink	https://en.wikipedia.org/wiki/Whirlpool_Galaxy				

20220327_M51_ASI294_0022-07WM.jpg

Link ▶Picture	M51_20220327		
Descpription	Spiral Galaxy		
Constellation	Canes Venatici		
Picture Data			
Work Status	Published	Quality	****
Source Format	Photo	Picture Center R.A.	13h 29m 59.552s
Tot./Act. Frames/Pane	39 27	Picture Center DEC	+47° 11' 43.54"
H / V Panes	1 1	H/V FoV [°]	0,6739 0,4586
Exp. [s] / Frame	180	Above horizon [°]	52,6°
Total Time / Pane [min]	81,00 81,00	View Direction	NE 63,7°
Camera Data	**ZWO Optical**	**ASI294MC-Pro**	**ZWOASI294**
Camera Angle [°]	265,79	Pixel Pitch [µm]	4,63
Gain or ISO	120	Camera Temp. °C	-10
Observation Site			
Observation Start	2022-03-27T20:29:05 UTC+/- +1h	Observation End	2022-03-27T21:37:07
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	4,5 %	Moon Rise | Set	11:17:00 00:53:00
Outside Temp. °C	6	Moon Age [d]	7,7
Moon Phase |% Illum.	1st quarter 53,4 %	Moon ▶Target Dist.	121°
Optical Configuration	**TS1624AS294c**	**TS1624ASI294cT235**	
Lens or Scope	TSO RC 203/1624	Focuser	2.5" Crayford
Type Of Build	Ritchey-Chretien Reflector	Focuser Position [mm]	0,00 EAF Steps 0
Brand	TS-Optics		
Addtional Optics	-	Optical Factor	1
Filter	ClearSky	FoL norm|actual [mm]	1624 2975,916
Diameter [mm]	203	DawesLimitLink	1,45 Arcsec
Aperture / f-stop	8,00	Optical Scale ["/px]	0,588
Other Hardware & Software			
GuideScope	Omegon 50/200	Mount	iOptron iEQ45 Pro
GuiderHW	ASiairPro	SessionControl	ASiairPro
GuiderSW	ASiairPro	PostProcessingSW	LrC, PS, PixInsight
More ...			
Work Folder	2022\20220327_M51_0022_GOE-MBR		
Comment			
Remarks	2nd attempt to take a picture of this whirlpool galaxy with slightly improved weather conditions and better, but still not precise telescope collimation. Somehow the tracking made problems, so that about 10 of the 39 frames could not be properly registered and integrated (2 more frames had been cut-off by given time constraints by Asiair settings in		

Live mode).
Star alignment and image integration functions of PixInsight have been used as the weighted automatic batch procedure failed to match the images.