

# ObservationReport

ObservationID

0076

on

2022-08-24 22:13

all measures in mm



<b>Object</b>	<b>M27</b>
Common Name	Dumbbell Nebula
Alternate Name (s)	NGC 6853
Visual Magnitude	7,4
Distance ► Object	1360
Apparent Size	8.0' × 5.6'
Object R.A.	20 00 38.520
Object DEC	+22 47 50.64
WikiLink	<a href="https://en.wikipedia.org/wiki/Dumbbell_Nebula">https://en.wikipedia.org/wiki/Dumbbell_Nebula</a>



20220824\_M27\_ASI294\_0076-05WM.jpg

Link ► Picture	<a href="#">M27_20220824</a>
Description	Planetary Nebula
Constellation	Vulpecula

## Picture Data

Work Status	Published	Quality	****
Source Format	Photo	Picture Center R.A.	20h 00m 34.08s
Tot./Act. Frames/Pane	30                      22	Picture Center DEC	01h 40m 27.71sE
H / V Panes	1                              1	H/V FoV [°]	1,8268                      1,2434
Exp. [s] / Frame	300	Above horizon [°]	55,16
Total Time / Pane [min]	110,00                      110,00	View Direction	SE

## Camera Data

	<b>ZWO Optical</b>	<b>ASI294MC-Pro</b>	<b>ZWOASI294</b>
Camera Angle [°]	71	Pixel Pitch [µm]	4,63
Gain or ISO	120	Camera Temp. °C	-10

## Observation Site

Observation Start	2022-08-24T22:13:01 UTC+/- +1h	Observation End	2022-08-25T01:03:33
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	02:32:00                      19:50:00
Outside Temp. °C	18		Moon Age [d]	26,9
Moon Phase  % Illum.	New                              6	%	Moon ►Target Dist.	UNKNOWN

## Optical Configuration

	<b>TS600AS294</b>	<b>TS600ASI294T252</b>	
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	Optical Factor	1
Additional Optics	M63 WO Rotator	FoL norm actual [mm]	599                              599
Filter	-	<a href="#">DawesLimitLink</a>	<a href="#">1,74 Arcsec</a>
Diameter [mm]	90	Optical Scale ["/px]	1,595
Aperture / f-stop	6,66		

## Other Hardware & Software

GuideScope	Omegon 50/200	Mount	iOptron iEQ45 Pro
GuiderHW	ASiAirPro	SessionControl	ASiAirPro
GuiderSW	NONE	PostProcessingSW	PixInsight

## More ...

Work Folder	<a href="#">2022\20220824_M27_0076_GOE-MBR</a>
Comment	
Remarks	First night since many weeks without moon and reasonable sky conditions at this location. Was my first attempt using the ASIAIR plan process together with target preparation in Astronomicus.com. Worked perfect! Version 04: Processed with PixInsight, LrC and PS

Version 05: Processed with PixInsight only using following steps:

1. ABE (\*\_ABE)
2. Image Solve (\*\_ABE\_SOLV)
3. PCC - Photometric Color Correction (\*\_ABE\_SOV\_PCC)
4. BlurXTerminator (\*\_ABE\_SOLVED\_PCC\_BX)
5. Curves Transformation to increase color saturation (\*\_ABE\_SOLVED\_PCC\_BX\_CT)
6. Crop to 50% and repeat Image Solve: (\*\_ABE\_SOLVED\_PCC\_BX\_CT\_CROP)
7. Histogram Transfer for full final stretch (\*\_ABE\_SOLVED\_PCC\_BX\_CT\_CROP\_FULL)