

# ObservationReport

ObservationID

0017

on

2021-09-08 23:11

all measures in mm



<b>Object</b>	<b>M31</b>
Common Name	Andromeda Galaxy
Alternate Name (s)	NGC224
Visual Magnitude	3,44
Distance ► Object	2,45 Mly
Apparent Size	3.167° × 1°
Object R.A.	00h 43m 15s
Object DEC	+41° 16' 9"
WikiLink	<a href="https://en.wikipedia.org/wiki/Andromeda_Galaxy">https://en.wikipedia.org/wiki/Andromeda_Galaxy</a>



20210908\_M31\_ASI294\_0017-03WM.jpg

Link ► Picture	<a href="#">M31_20210908</a>
Description	Spiral Galaxy
Constellation	Andromeda

## Picture Data

Work Status	Published	Rating	*****
Source Format	Photo	Picture Center R.A.	0 43 14.563
Tot./Act. Frames/Pane	19 8	Picture Center DEC	+41 09 50.29
H / V Panes	1 1	H/V FoV [°]	1,8268 1,2434
Exp. [s] / Frame	180	Above horizon [°]	52,4~
Total Time / Pane [min]	24,00 24,00	View Direction	E83,8~
<b>Camera Data</b>	<b>ZWO Optical</b>	<b>ASI294MC-Pro</b>	<b>ZWOASI294</b>
Camera Angle [°]	261,16	Pixel Pitch [µm]	4,63
Gain or ISO	120	Camera Temp. °C	-10

## Observation Site

Observation Start	2021-09-08T23:11:08 UTC+/- +h	Observation End	2021-09-08T00:08:06
Observation Site	ES LP - Llano des las Brujas	Site Elevation /Bortle	1300 1
Province	La Palma	Site Coordinates	28° 37' N, 7° 50' E

## Sky & Moon

Sky Index   Total Clouds	2,8	%	Moon Rise   Set	00:00:00 14:02:00
Outside Temp. °C	2		Moon Age [d]	23
Moon Phase  % Illum.	4th quarter 51	%	Moon ► Target Dist.	144~ 07

## Optical Configuration

<b>TS600AS294-E5</b>	<b>TS600ASI294T246</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	-	FoL norm actual [mm]	599 599
Filter	OIII	<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	LrC, PS, PixInsight

## More ...

Work Folder [2021\20210908\\_M31\\_0017\\_Llano-des-las-Brujas](#)

Comment

Remarks I took these pictures on La Palma (see observation site) a few days before the new volcano Tajogaite erupted on La Cumbre Vieja. The observation site was only about 500m away from the later eruption site of the new volcano. When I evaluated the exposures the next day, I found that more than half of the exposures were blurred - which was resolved

when I learned that there had been slight tremors during the night, which were noticeable on the exposures. Fortunately, 8 of the 19 shots were still usable in the end and a pretty good final image could be created from these.

Version 03: was created in the traditional way using PixInsight integration and background processing followed by Photoshop selective color burst

Version 04: used PixInsight only plus StarnetV2 for separate galaxy and stars processing and integrating both images with PixelMath.