

## Object

Common Name	Andromeda Galaxy
Alternate Name	NGC224
Visual Magnitude	0
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>

## M31



20231113-223151\_M31\_ZWOASI294\_0003\_03\_WM.jpg

Link ► Picture	<a href="#">M31_20231113</a>
Description	Spiral Galaxy
Constellation	Andromeda

## Picture Data

Work Status	Published	Quality	****
Format	Photo	Picture Center R.A.	0 43 07.430
Tot./Act. Frames/Pane	99 96	Picture Center DEC	+41 16 46.69
H / V Panes	1 1	H/V FoV [°]	1,8268 1,2434
Exp. [s] / Frame	60	Above horizon [°]	0
Total Time / Pane [min]	96,00 96,00	View Direction	N

## Camera Data

	<b>ZWO</b>	<b>ASI294MC-Pro</b>	<b>ZWOASI294</b>
Camera Angle [°]	87,546	Pixel Pitch [µm]	4,63
Gain or ISO	120	Camera Temp. °C	-10

## Observation Data

Observation Start	2023-11-13T20:32:16 UTC+/- +h	Observation End	2023-11-13T22:31:51
Observation Site	ES La Palma Jardin	Site Elevation /Bortle	470 3
Province	La Palma	Site Coordinates	28° 38' 52.0" N, 017° 53' 47.

## Sky & Moon

Sky Quality	1,42	Outside Temp. °C	20
Seeing Index 1	4	Seeing Index 2	3
Moon Phase	New	Moon Age [d]	0
Moon Percent %	0,4	Distance ► Target	UNKNOWN
MoonRise	07:36:00	MoonSet	18:21:00

## Optical Config.

	<b>TS600AS294</b>	<b>TS600AS294E100T78</b>	
Lens or Scope	TS600	FocalLength [mm]	599
Type Of Build	APO Triplet Refractor	Diameter [mm]	90
Brand	TS-Optics	Aperture / f-stop	6,66
Additional Optics	M63 WO Rotator	<a href="#">DawesLimitLink</a>	<a href="#">1,74 Arcsec</a>
Filter	Optolong 2" L-eNhanche	Optical Scale ["/px]	1,595
Focuser	TS600 Rack + Pinion	EAF Position	20809
Focuser Position	64,49		

## Other Hardware & Software

GuideScope	ZWO 30/120 mini	Mount	EQ6R-PRO
GuiderHW	ASIAIR	SessionControl	ASIAIR
GuiderSW	ASIAIR	PostProcessingSW	PixInsight, LrC, PS

## More ...

 Work Folder [2023\20231113-203216\\_M31\\_La-Palma-Jardin](#)

Comment

 Remarks **1. Session Planning**

No big ahead planning as sky conditions were not too good.

## 2. Location and sky

Mediocre (for La Palma skies)

## 3. Session Results

ASIAIR Live Stacking process was used, but the final stacked image was not very convincing in terms of quality (many image errors, strange coloring)

## 4. Plate Solving and Camera Rotation Results

Astrometry.net rotation measurement:

PixInsight Plate Solve: 87,546°

Plate Solve result (ASIAIR): not available

## 5. Post Processing

### • Pixel Insight

#### • Post Processing Attempt 0001

- Script: WBPP Weighted Batch Proprocessing (rejected 2 frames out of 99)
  - Calibration Files (from ..\\_Astro\\_Calibrations\MastersASi294)
    - Master Bias: MasterBias50\_1.0ms\_20230704-103931.fit
    - Master Dark: MasterDark20\_060.0s\_20230703-175004.fit
    - Master Flat: Master\_Flat20\_TS600AS294\_FilterOleN\_20231111.fit
      - but Mast flat was ignored by WBPP
  - Photometric Color Calibration (PCC)
  - Background Neutralization: Low: 0, High 0.1, Working mode: Rescale as needed
  - Screen Transfer Function and Histogram Transfer to create a fully stretched image.

#### • Post Processing Attempt 0003 (WBPP processing time: 3:57h)

- Script: WBPP Weighted Batch Proprocessing (rejected 3 frames out of 99)
  - Calibration Files (from ..\\_Astro\\_Calibrations\MastersASi294)
    - Master Bias: MasterBias50\_1.0ms\_20230704-103931.fit
    - Master Dark: MasterDark20\_060.0s\_20230703-175004.fit
  - Master Flat: Master\_Flat20\_TS600AS294\_FilterOleN\_20231111.fit, added mast flat manually
  - Photometric Color Calibration (PCC)
  - Background Neutralization: Low: 0, High 0.1, Working mode: Rescale as needed
- Screen Transfer Function and Histogram Transfer to create a fully stretched image.

Lightroom

- Photoshop

## 6. Lessons Learned

None

## 7. Main logfile entries

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