

ObservationReport

ObservationID

312

on 2023-11-16 20:36

Object

Common Name Heart Nebula
Alternate Name LBN654
Visual Magnitude 65
Distance ► Object 6.2 ly
Apparent Size 60x60'
Object R.A. 02h 35m 12.55s
Object DEC +61° 32' 16.7"
WikiLink https://en.wikipedia.org/wiki/Heart_Nebula

IC1805



20231117-045648_IC1805_ZWOASI294_0003-01_WM.jpg

Link ► Picture [IC1805_20231116](#)
Description Emission Nebula
Constellation Cassiopeia

Picture Data

Work Status	Published	Quality	****
Format	Photo	Picture Center R.A.	02h 32m 32.021s
Tot./Act. Frames/Pane	150 150	Picture Center DEC	+61° 36' 34.962"
H / V Panes	1 1	H/V FoV [°]	1,8268 1,2434
Exp. [s] / Frame	180	Above horizon [°]	0
Total Time / Pane [min]	450,00 450,00	View Direction	N

Camera Data

	ZWO	ASI294MC-Pro	ZWOASI294
Camera Angle [°]	113,872	Pixel Pitch [µm]	4,63
Gain or ISO	120	Camera Temp. °C	-10

Observation Data

Observation Start	2023-11-16T20:36:21 UTC+/- +h	Observation End	2023-11-17T04:56:48
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	0,85	Outside Temp. °C	20
Seeing Index 1	5	Seeing Index 2	3
Moon Phase	1st quarter	Moon Age [d]	2
Moon Percent %	8	Distance ► Target	UNKNOWN
MoonRise	10:46:00	MoonSet	20:54:00

Optical Config.

	TS600AS294	TS600AS294E100T78	
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	DawesLimitLink	1,74 Arcsec
Filter	-	Optical Scale ["/px]	1,595
Focuser	TS600 Rack + Pinion	EAF Position	20606
Focuser Position	63,86		

Other Hardware & Software

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

More ...

Work Folder [2023\20231116-203621_IC1805_La-Palma-Jardin](#)
Comment RA:02h 32m 32.021s DEC:+61° 36' 34.962" size: 1.83 x 1.25 deg, Radius: 1.109 deg,
Remarks **1. Session Planning** 13.2 degrees E of N
The session was planned using ASIAR Preview and SkyAtlas for camera rotation, coordinates

and scheduled start time.

2. Location and sky

All light frames were taken on La Palma (Canary Islands, Spain) at about 500 meters above sea level.

The sky index was 3,9 (good) with no clouds.

3. Session Results

Mediocre final image quality, needs another post-processing.

4. Plate Solving and Camera Rotation Results

ASIAIR SkyAtlas planned rotation:

ASIAIR Plate Solve result after GoTo: RA:2h34m15s DEC:+61°42'56" Angle = -113.872, Star number = 1381

Astrometry.net rotation measurement: RA:02h 32m 32.021s DEC:+61° 36' 34.962" size: 1.83 x 1.25 deg, Radius: 1.109 deg, Orientation: Up is 113.2 degrees E of N

5. Post Processing

Image selection, registration, background improvement and color correction were done in PixInsight (Post Processing using PixInsight (starlust.de)).

Some color saturation applied with Lightroom Classic.

No color or hue changes have been applied; the final image is showing natural colors.

6. Lessons Learned

The image quality could certainly have been significantly improved by using an Optolong 2" L-eNhanche filter during the image acquisition phase.

7. Main logfile entries

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