

ObservationReport

all measures in mm

Observation-ID

0089 v 02

on

2018-09-12 22:57

Rating

Status

Published



Main Object	M57
Common Name	Ring Nebula
Alternate Name	NGC6720
Visual Mag. Size	8,80 230" × 230"
Distance	2.567 ly
Object R.A. DEC coord.	18h 53m 35.079 +33° 01' 45.03"
Description	Planetary Nebula
Constellation	Lyra
Other Objects	



20180912_M57_FUJXT1_0089-02.jpg

StarImage Link [OID0089](#)

Telescopius Link

Wikipedia Link <https://en.wikipedia.org/wi>

Image Properties

Source Format	Photo	Optical Scale ["/px]	0,4783
Tot./Act. Frames/Pane	11 11	Picture Center R.A.	18h53m34.848s
H / V Panes	1 1	Picture Center DEC	+33°01m46.87s
Exp. [s] / Frame	30	FoV measured H/V [°]	0,649 0,429
Total Time / Pane [min]	5,50 5,50	Above horizon [°]	0
		View Direction	N

Camera Data

FUJIFILM	FUJXT1	FUJXT1	
Camera Angle [°]	242	Pixel Pitch [μm]	4,827
Gain or ISO	6400	Camera Temp. °C	20

Observation Site

Observation Start	2018-09-12T22:57:41 UTC+/- +h	Observation End	2018-09-12T23:09:28
Observation Site	ES LP - La Palma Jardin	Site Elevation / Bortle	470 4
Province	La Palma	Site Coordinates	28° 38' 52.0" N, 017° 53' 47

Sky & Moon

Sky Index Total Clouds	? %	Moon Rise Set	09:56:00 21:19:00
SQM Outside Temp. °C	? %	Moon Age [d]	2,5
Moon Phase % Illum.	3rd quarter 8 %	Moon ► Target Dist.	80°

Optical Configuration

ME2082FUXT1	ME2082FUJXT1		
Lens or Scope	Meade 203/2082	Mechanical Focuser	-
Type Of Build	Cassegrain	Electronic Focuser	<input type="checkbox"/>
Brand	Meade	Focuser Position	0 [mm]
Additional Optics	-	► Optical Factor	1
Filter	NONE	FoL norm actual [mm]	2082 1968,895
Diameter [mm]	203	DawesLimitLink	1,13 Arcsec
Aperture / f-stop	10,26		

Other Hardware & Software

Guide Scope + Camera	NONE BREGPCMOS02000KP	Mount	EQ6R-PRO
GuiderHW	NONE	SessionControl	NONE
GuiderSW	NONE	PostProcessingSW	DeepSkyStacker

More ... (see also next page)

Work Folder	2018\20180912_0089_M57_La-Palma-Jardin
Comment/Title	Ring Nebula (M57) in Lyra

Remarks

Session Planning

No electronic guiding was available resulting in poor tracking stability with a rented Meade 20/2082 Cassegrain telescope. Sky conditions were excellent.

Image integration with PixInsight failed so Deep Sky Stacker was used for the integration. Post-processed with Lightroom.

Location and sky

see details

Session Results

Enter Text

Post Processing

Image selection, registration, background enhancement and color correction were done in PixInsight.

Alignment and Integration

FBPP: Fast Batch PreProcessor (Autocrop, Drizzle)

Linear Image Processing

DC: Dynamic Crop + Plate Solve

GX: GraXpert

BX: BlurXTerminator

SPCC: Spectrometric Color Calibration

NX: NoiseXTerminator

MAS: Multiscale Adaptive Stretch

No further image post processing was required.

No color or hue changes were made; the final image has natural colors.

Lessons Learned

Enter Text

Main logfile entries

Enter Text

Image Keywords

ObservationID=#0089, M57, Ring Nebula, ***, Constellation=Lyra, 2018, SEP, Type=Photo, Site=LP - La Palma Jardin, ES, Config=ME2082FUXT1, D=203mm, f/10.3, f=2082mm, Filter=NONE, Gain=6400, Lens=ME2082, LensName=Meade 203/2082, Mount=EQ6R-PRO, n=11, OtherOptics=-, PanesH=1, PanesV=1, Status=Published, t=30s, FUJXT1, AstroSW=DeepSkyStacker