

Initial Attempt: 2 sec exposure; gain 52

SharpCap Pro (v3.2.6482) - ZWO ASI120MM Mini (via USB2) - C:\Users\Salty Dog\AppData\Local\Temp\tmpC49D.tmp.png - D:\SharpCap Captures

File Cameras Options Capture Tools Scripting Help

Start Capture Quick Capture Stop Capture Pause Snapshot Live Stack Target Name: FX: None Zoom: Auto

Camera Control Panel

Capture Profiles

Capture Format and Area

Colour Space: MONO8

Capture Area: 1280x960

Binning: 1

Output Format: PNG files (*.png) Auto

Camera Controls

Exposure: 2000 ms LX Mode

Quick Picks: 2s Auto

Gain: Auto 52

Frame Rate Limit: Maximum

Flip: None

Turbo USB: Auto 85

Overclock: 0

High Speed Mode: Off

Discard Split Frames: Off

Temperature: 16.2

Image Controls

Misc Controls

Preprocessing

Display Histogram Stretch

Restart

Previous

Next

Step 1 - Capture First Image

SharpCap is scanning each frame for stars and matching them against its own list of stars near the pole.

SharpCap needs to find at least 10-15 stars. Detected stars are outlined in yellow or red.

Start with a high gain value and an exposure of 1-2s, then adjust as required.

When the status to the right shows that SharpCap has located a match, you can press Next to move to the next stage.

Advanced

Allow smaller rotation angles (may be less accurate)

First Frame

Status: Completed

Detected Stars: 29

Used Stars: 15

Field of View: 1.08x0.81"

Pixel Size: 3.05"

Centre RA: -11:01:37

Centre Dec: 89:53:08N

Solve Time: 6ms

Star Detection

Noise Reduction: 2.0

Minimum star width: 3 pixels

Maximum star width: 16 pixels

Black Level Threshold: 50

Digital Gain: Off Reset All

Location

27.470S, 153.030E

Refraction correction: 1.9 minutes of arc

Auto Advance

Automatically advance to the next stage when the current stage is completed.

Plate Solving Status

Most Recent Frame: Solved

Previewing: 347 frames (0 dropped) in 0:07:39, 0.3 fps

Memory: 1 of 873 frames in use.

Frame: 0.1/1.9

7:30 PM 8/08/2021

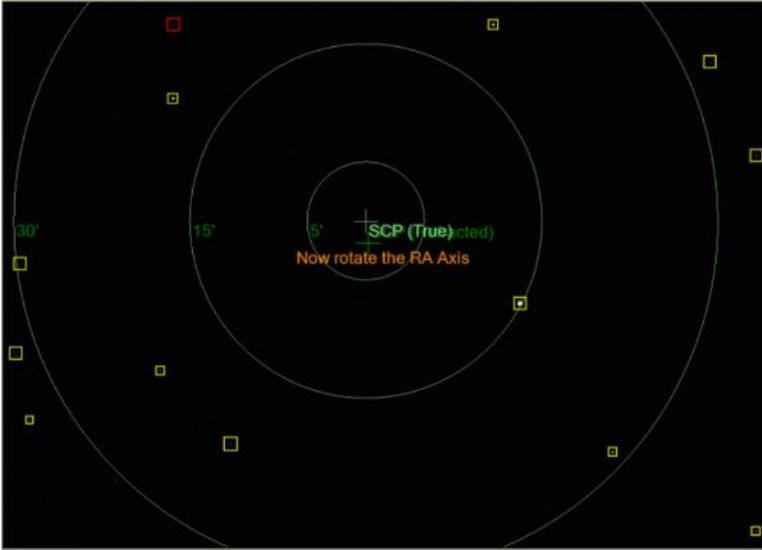
Rotated mount approx. 90 to the right (when looking from the back of the scope to the lens): exposure 2 secs; gain 52

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Start Capture Quick Capture Stop Capture Pause Snapshot Live Stack Target Name: FX: None Zoom: Auto

Warning: The last 26 frames failed to solve. Check your star detection settings and camera exposure/gain



SCP (True) circled
Now rotate the RA Axis

Capture Profiles
Load Save Save As... Manage...

Capture Format and Area
Colour Space: MONO8
Capture Area: 1280x960
Binning: 1
Output Format: PNG files (*.png) Auto

Camera Controls
Exposure: 2000 ms LX Mode
Quick Picks: 2s Auto
Gain: Auto 52
Frame Rate Limit: Maximum
Flip: None
Turbo USB: Auto 85
Overclock: 0
High Speed Mode: Off
Discard Split Frames: Off
Temperature: 15.5

Image Controls
Misc Controls
Preprocessing
Display Histogram Stretch

Polar Align

Step 2 - Capture 2nd Image
Now rotate your mount through about 90 degrees about the RA axis.
Once the rotation is big enough SharpCap can work out the polar alignment error and you can press the Next button to move to the next stage.
Plate Solving Status
Most Recent Frame: **Could not solve**

First Frame	Completed	Second Frame	Rotate Further...	Results
Status: 27	Completed	Status: 16	Rotate Further...	Polar Align Error
Detected Stars: 15		Detected Stars: 16		?
Used Stars: 15		Used Stars: 15		
Field of View: 1.09x0.81°		Field of View: 1.09x0.81°		
Pixel Size: 3.05"		Pixel Size: 3.05"		
Centre RA: -11:00:44		Centre RA: -11:00:44		
Centre Dec: 89:53:08N		Centre Dec: 89:53:08N		
Solve Time: 6ms		Solve Time: 33ms	Rotation: 0.0°	

Restart Previous Next

Previewing: 388 frames (0 dropped) in 0:00:59, 450.6 fps | Memory: 1 of 873 frames in use. | Frame: 0.3/1.7

Type here to search | 17°C | 7:32 PM 8/08/2021

2nd Attempt: exposure 4 sec; gain 52

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File Cameras Options Capture Tools Scripting Help

Start Capture Quick Capture Stop Capture Pause Snapshot Live Stack Target Name: FX: None Zoom: Auto



Press the 'Next' button before rotating the RA Axis

SCP (True) circled

15' 5' 30'

Camera Control Panel

Capture Profiles

Load Save Save As... Manage...

Capture Format and Area

Colour Space: MONO8
Capture Area: 1280x960
Binning: 1
Output Format: PNG files (*.png) Auto

Camera Controls

Exposure: 4.00 s LX Mode
Quick Picks: 4s Auto
Gain: Auto 52
Frame Rate Limit: Maximum
Flip: None
Turbo USB: Auto 85
Overclock: 0
High Speed Mode: Off
Discard Split Frames: Off
Temperature: 14.7

Image Controls

Misc Controls

Preprocessing

Display Histogram Stretch

Restart Previous Next

Polar Align

Step 1 - Capture First Image

SharpCap is scanning each frame for stars and matching them against its own list of stars near the pole.
SharpCap needs to find at least 10-15 stars. Detected stars are outlined in yellow or red.
Start with a high gain value and an exposure of 1-2s, then adjust as required.
When the status to the right shows that SharpCap has located a match, you can press Next to move to the next stage.

First Frame

Status: **Completed**
Detected Stars: 46
Used Stars: 15
Field of View: 1.09x0.81"
Pixel Size: 3.05"
Centre RA: 06:31:24
Centre Dec: 89:51:04N
Solve Time: 6ms

Advanced
 Allow smaller rotation angles (may be less accurate)

Star Detection

Noise Reduction: 2.0
Minimum star width: 3 pixels
Maximum star width: 16 pixels
Black Level Threshold: 50
Digital Gain: Off Reset All

Location

27.470S, 153.030E
Refraction correction: 1.9 minutes of arc

Auto Advance

Automatically advance to the next stage when the current stage is completed.

Plate Solving Status

Most Recent Frame: **Solved**

Previewing: 413 frames (0 dropped) in 0:09:55, 0.3 fps Memory: 1 of 873 frames in use. Frame: 0.4/3.6

Windows taskbar: 17°C, 7:33 PM, 8/08/2021

Rotated mount approx. 90 to the right (when looking from the back of the scope to the lens): exposure 4 secs; gain 52

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Camera Control Panel

Capture Profiles

Capture Format and Area

Colour Space: MONO8

Capture Area: 1280x960

Binning: 1

Output Format: PNG files (*.png) Auto

Camera Controls

Exposure: 4.00 s LX Mode

Quick Picks: 4s Auto

Gain: Auto 52

Frame Rate Limit: Maximum

Flip: None

Turbo USB: Auto 85

Overclock: 0

High Speed Mode: Off

Discard Split Frames: Off

Temperature: 15.5

Image Controls

Misc Controls

Preprocessing

Display Histogram Stretch

Restart Previous Next

Polar Align

Step 2 - Capture 2nd Image

Now rotate your mount through about 90 degrees about the RA axis.

Once the rotation is big enough SharpCap can work out the polar alignment error and you can press the Next button to move to the next stage.

Plate Solving Status

Most Recent Frame : **Could not solve**

First Frame	Second Frame
Status : Completed	Status : Rotate Further...
Detected Stars : 42	Detected Stars : 47
Used Stars : 15	Used Stars : 15
Field of View : 1.08x0.81°	Field of View :
Pixel Size : 3.05"	Pixel Size :
Centre RA : 06:32:00	Centre RA :
Centre Dec : 89:51:04N	Centre Dec :
Solve Time : 5ms	Solve Time : 127ms
	Rotation : 0.1°

Results

Polar Align Error ?

Previewing : 425 frames (0 dropped) in 0:10:40, 0.3 fps

Memory: 1 of 873 frames in use.

Frame: 1.6/2.4

Windows taskbar: Type here to search, 17°C, 7:33 PM 8/08/2021