

# Introduction to Seestar S50

# The Telescope Unit

Power cord attached for charging



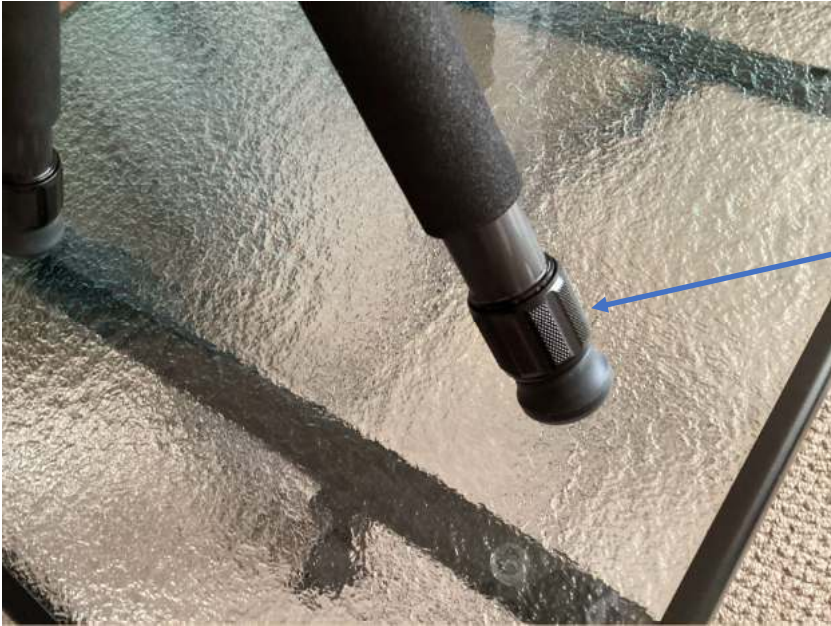
ON/OFF Button

# Levelling and Mounting



Opened tripod on folding glass table  
(tempered glass top)

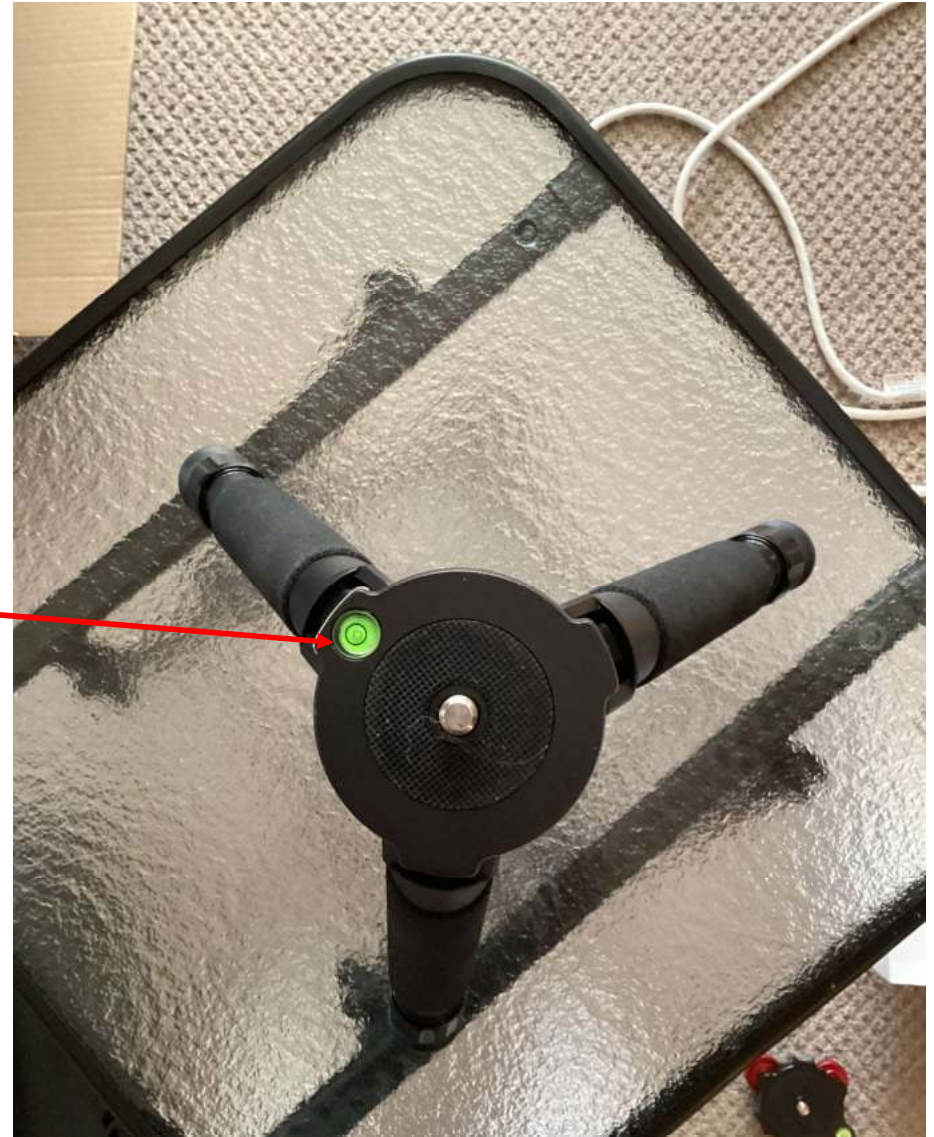
# Levelling and Mounting



Extend tripod leg, as required, by undoing lock ring

# Levelling and Mounting

**Level tripod by adjusting tripod leg(s)**



# Levelling and Mounting

- Optional Levelling cog



**Screw levelling cog onto top of tripod**



**Adjust level using red disks**

**Side and main bubbles**

# Levelling and Mounting



**Carefully** hold scope on top of assembly and rotate until screwed solidly onto tripod

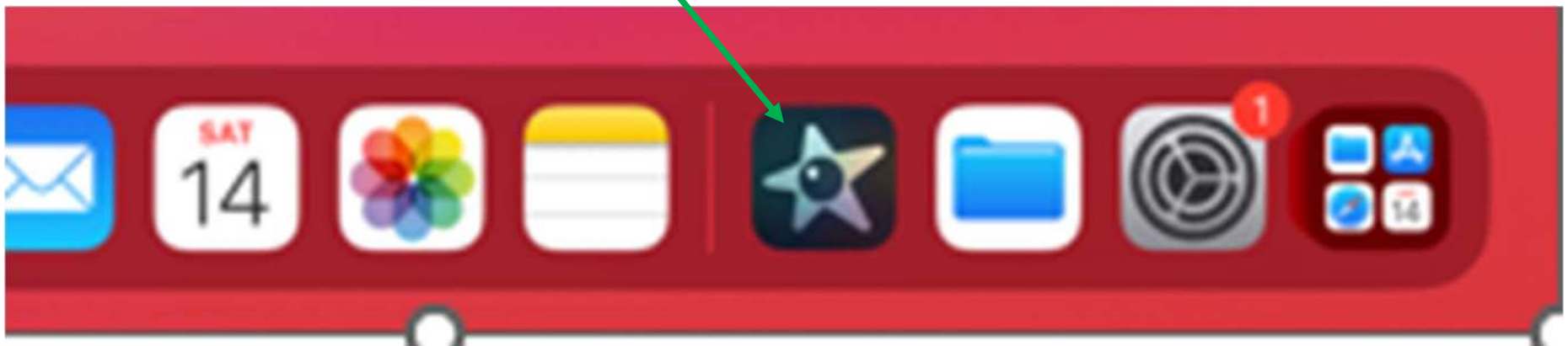
# Starting and Connecting to Scope



Push until lights come on. Press again for about 2 seconds. Unit will beep and then voice will inform you that unit **is ready to connect** (to the IPAD).

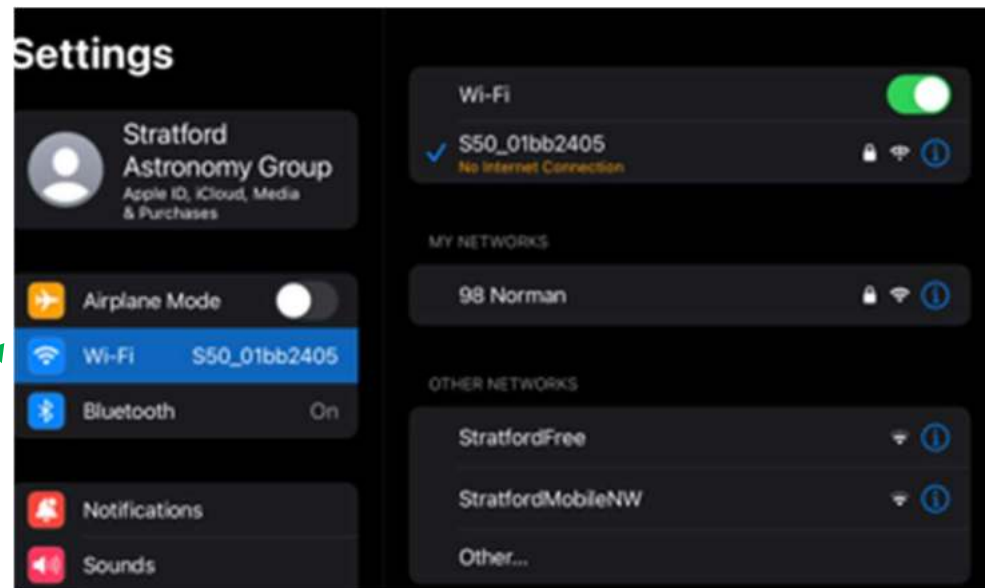


Open iPad Seestar App

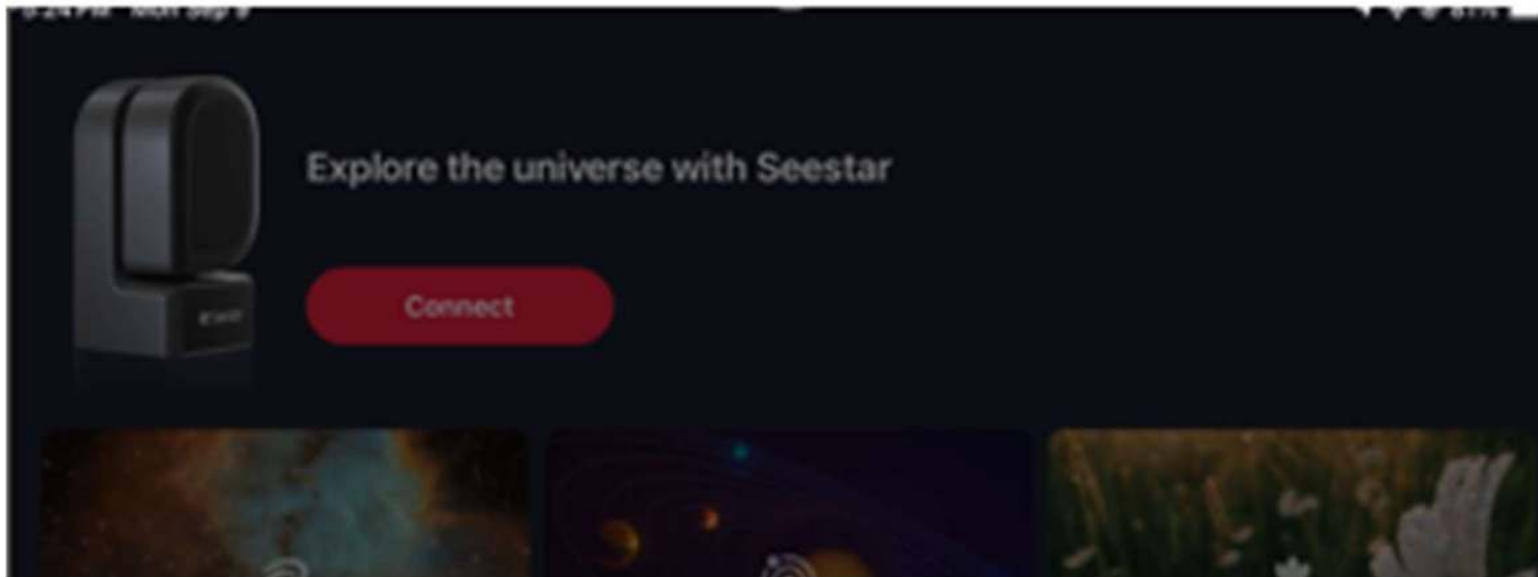


# Connecting IPAD to Scope

- Scope unit generates its own WiFi .
- Go to “Settings”, “ Wifi” to ensure that the scope’s Wifi is selected

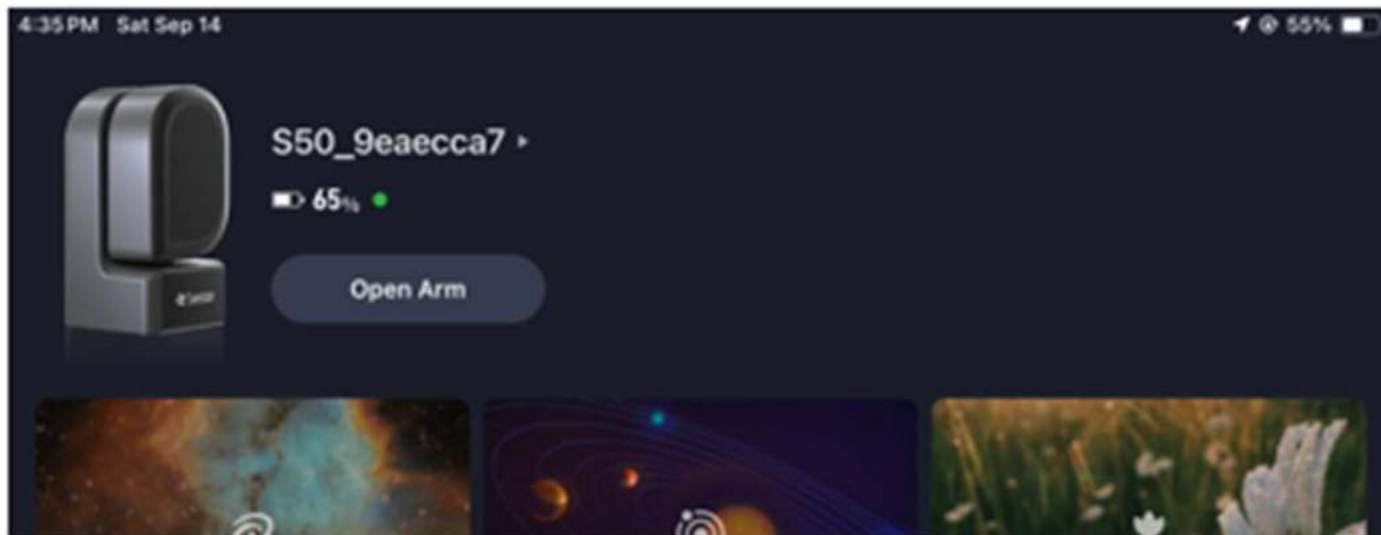


# Connecting IPAD to Scope

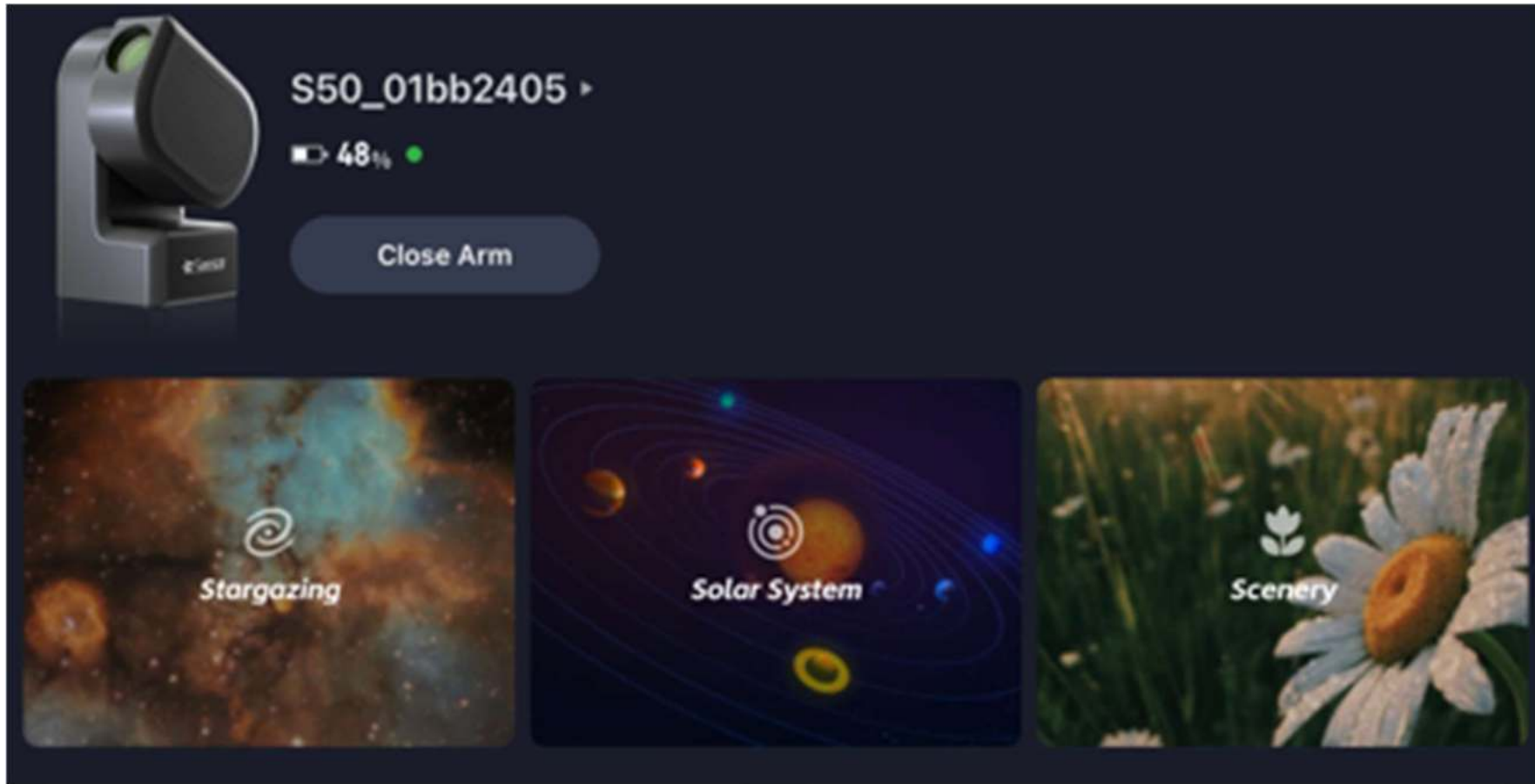


**Press “Connect” button if system doesn’t automatically connect you**

# Open the Seestar arm



# Three Options for Viewing



# Sun Observing

- Don't look at the sun directly
- Install solar filter on telescope lens to protect it (before you aim at sun)



**Turn scope away from sun before removing filter!!!!**

# Sun Observing: Choose Solar System Option



**Click on GoTo to have scope find the desired option**

**System will ask you if solar filter in place, before proceeding. Accept**

# Sun Photo



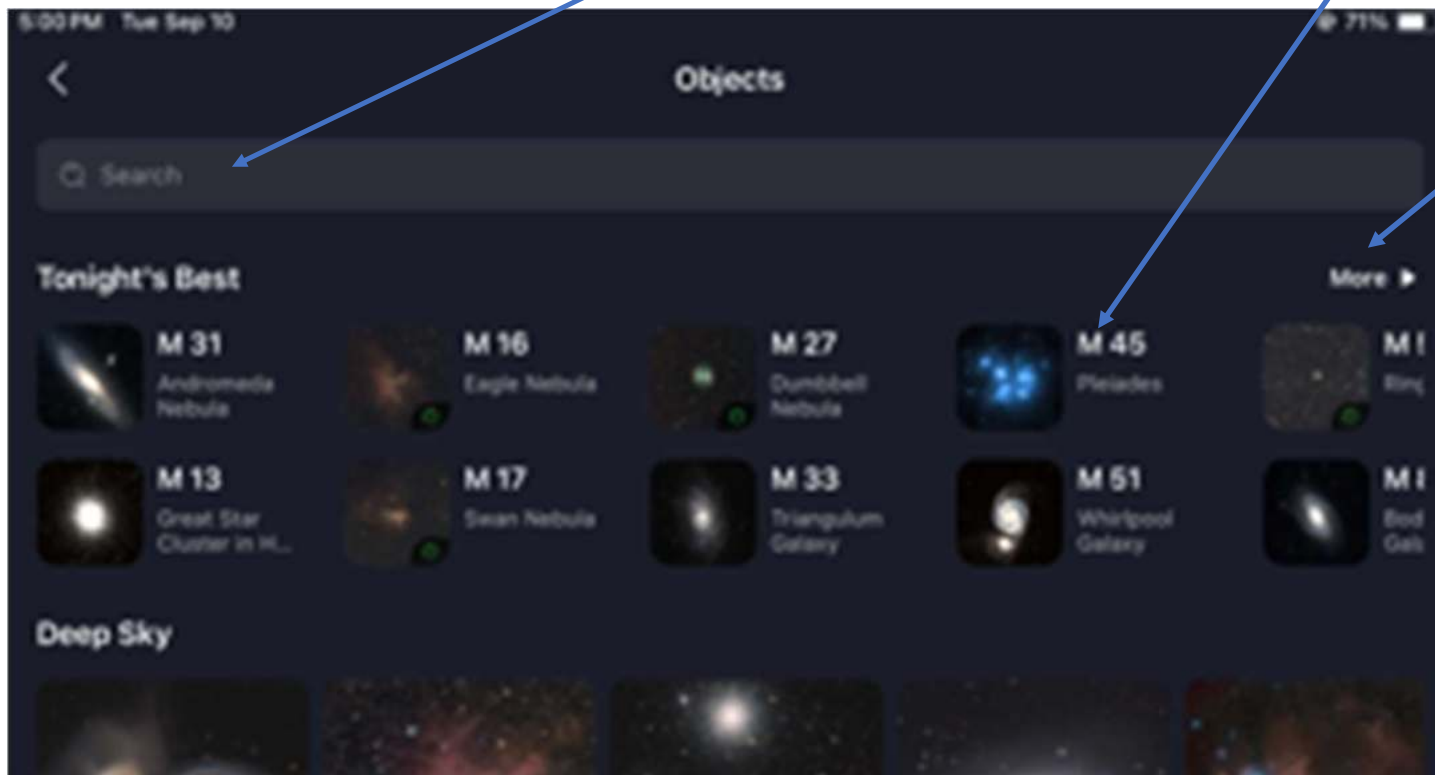
**Only one photo taken, not series at 10 second Intervals. No stacking required. Saved in "My Album" (accessible from main Seestar screen).**

**Turn scope away from sun before removing filter!!!!**



# Star Gazing Option

You can type in an object to search for, or pick a selection

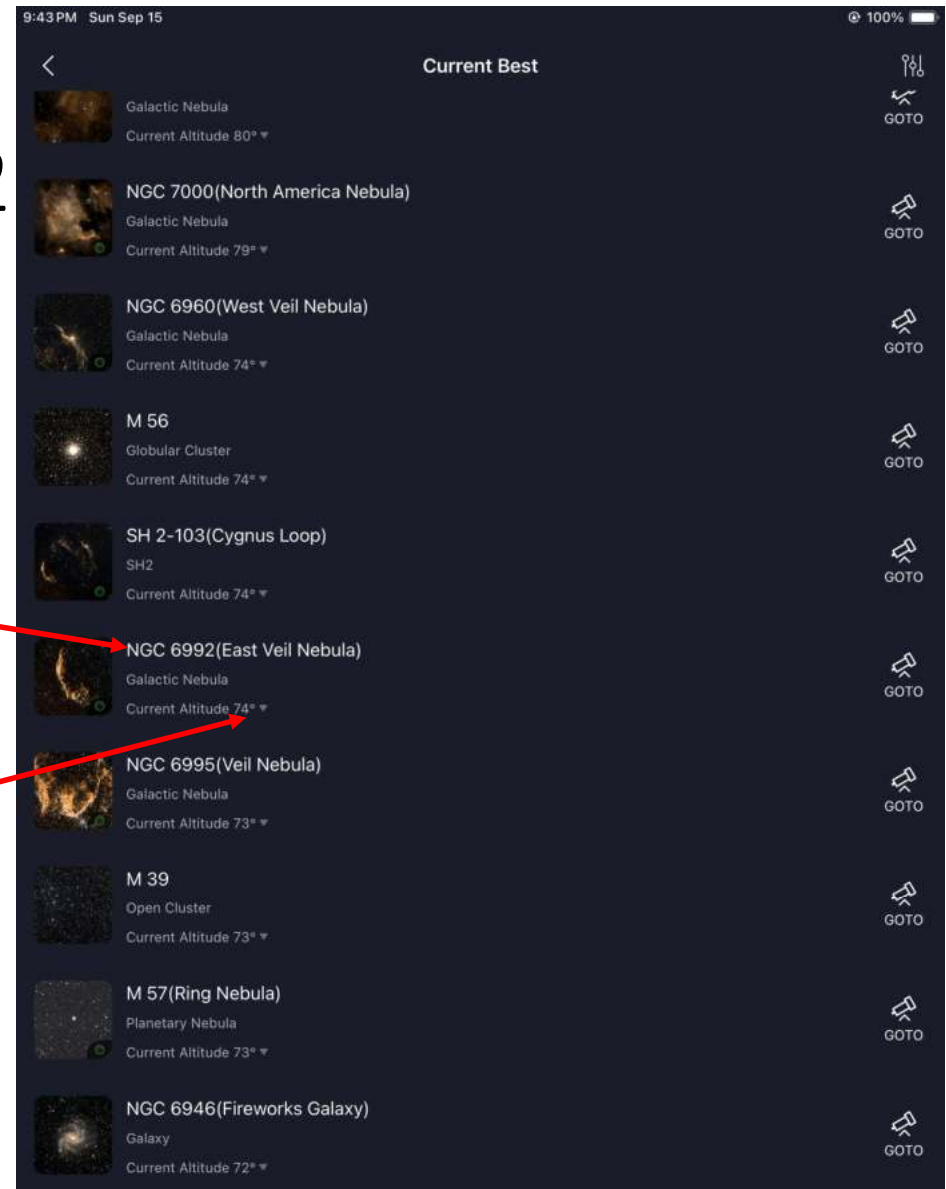


Click on More to see full list of all available with useful details

# More Options – page 2

Click NGC 6992 for profile and to start photos

This screen tells you if object is positioned well for viewing




# NGC 6992 Profile

## East Veil Nebula

Click on “Go Gazing” to start viewing/data collection

9:50 PM Sun Sep 15 99%

<



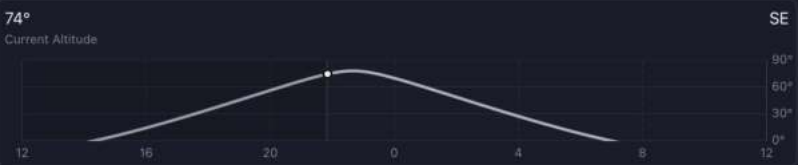
NGC 6992(East Veil Nebula)

Rec. Filter

The Veil Nebula is a cloud of heated and ionized gas and dust in the constellation Cygnus.

Visibility

74°  
Current Altitude



SE

90°  
60°  
30°  
0°

12 16 20 0 4 8 12

Coordinates

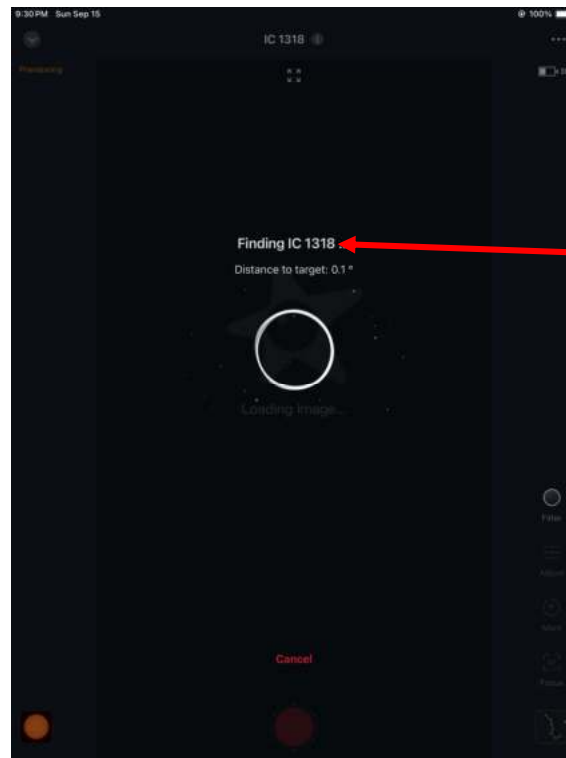
RA 20h 57m 19s Alt +74° 56' 54"

DEC +31° 50' 15" Az +135° 57' 28"

\* images are for example effects only and are not intended to be used as a reference. Image Credits & Copyrights: The Digitized Sky Survey

Go Gazing

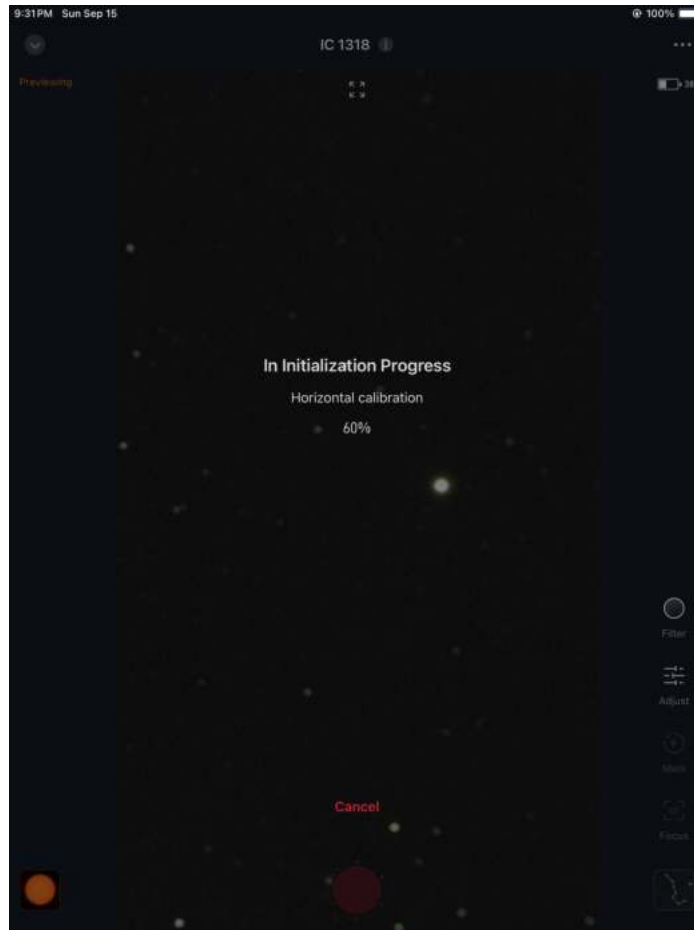
# Scope start to search for NGC 6992



Ignore IG 1318B

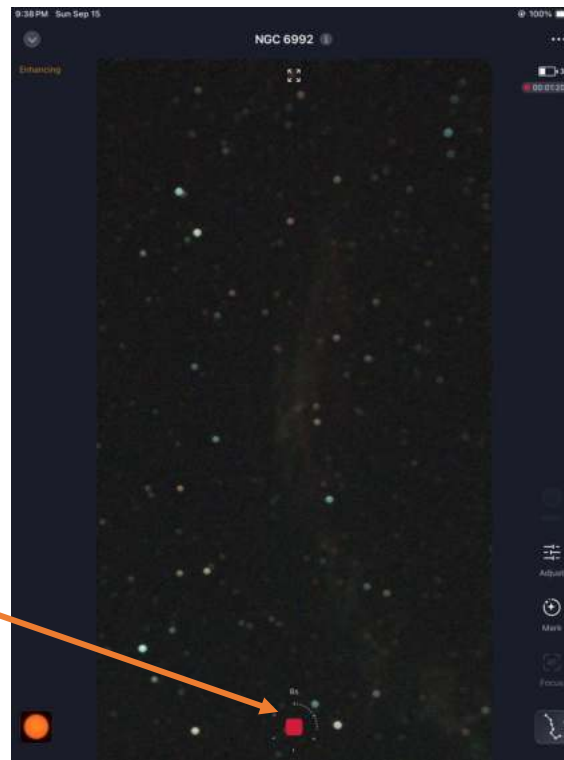
Seestar will tell you that object found then move on to further horizontal positioning

# Further Orientation of Scope to find NGC 6992



# 10 second photos being taken

Once NGC 6992 has been fully located, 10 second photos will start automatically



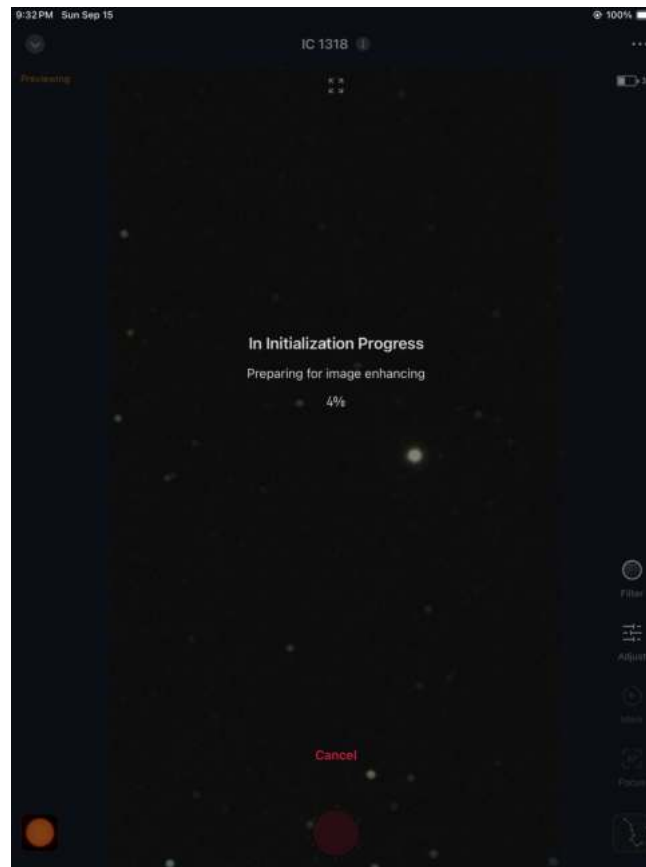
Total elapsed time of 1 minute, 20 secs so 8 photos taken so far

Push the red button to stop photo taking

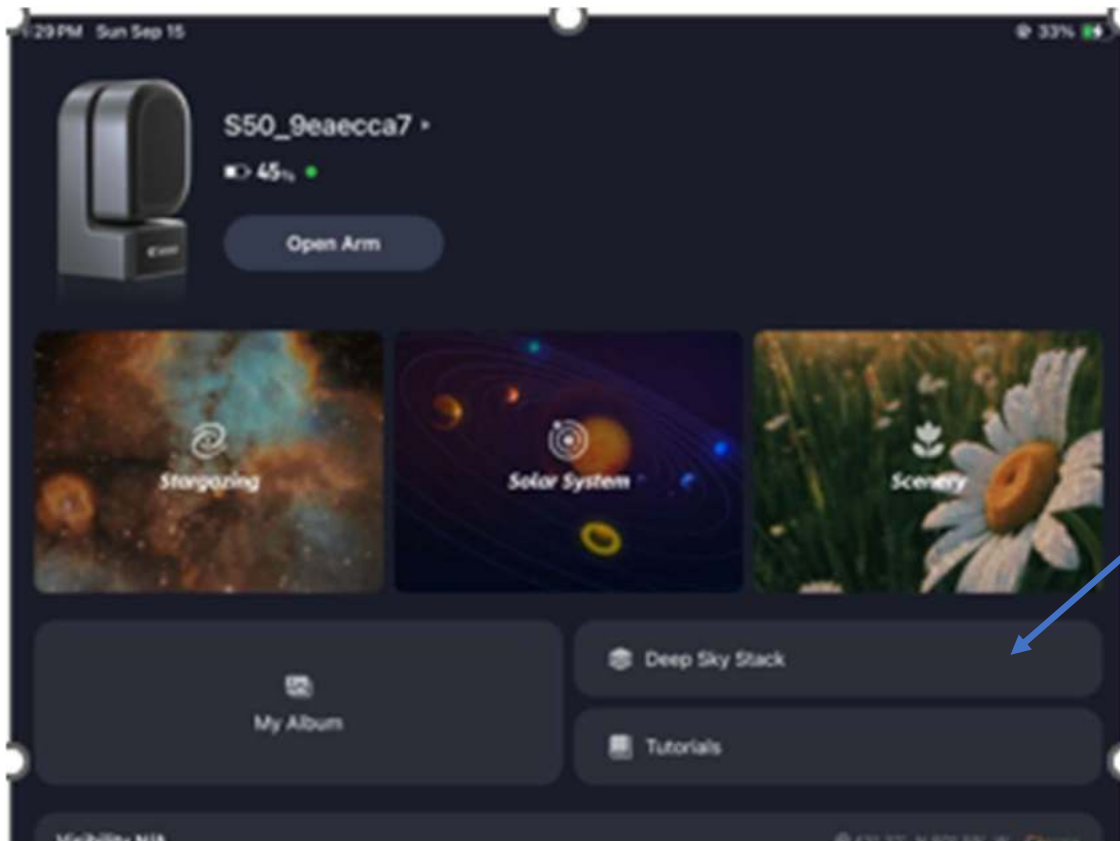
Shows time running in photo taking process

# Initialization Process for Initial Enhanced Image

Photos are being compiled to show initial enhanced image (not as crisp/detailed as stacked image). When done, go back to main Seestar menu to start stacking process to produce final image



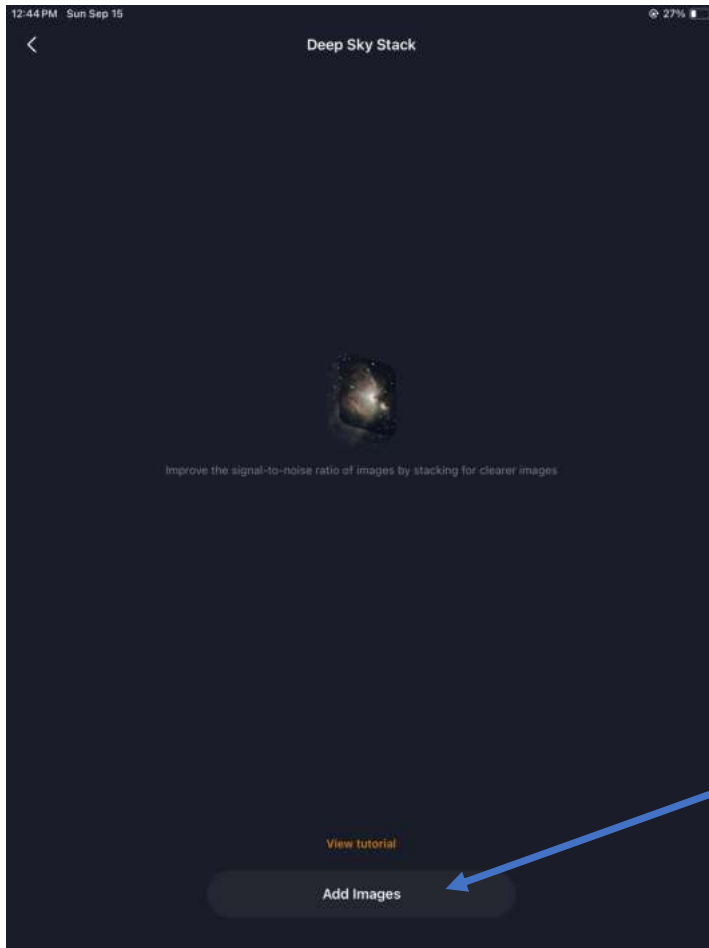
# Stacking Process



Click on Deep Sky Stack"



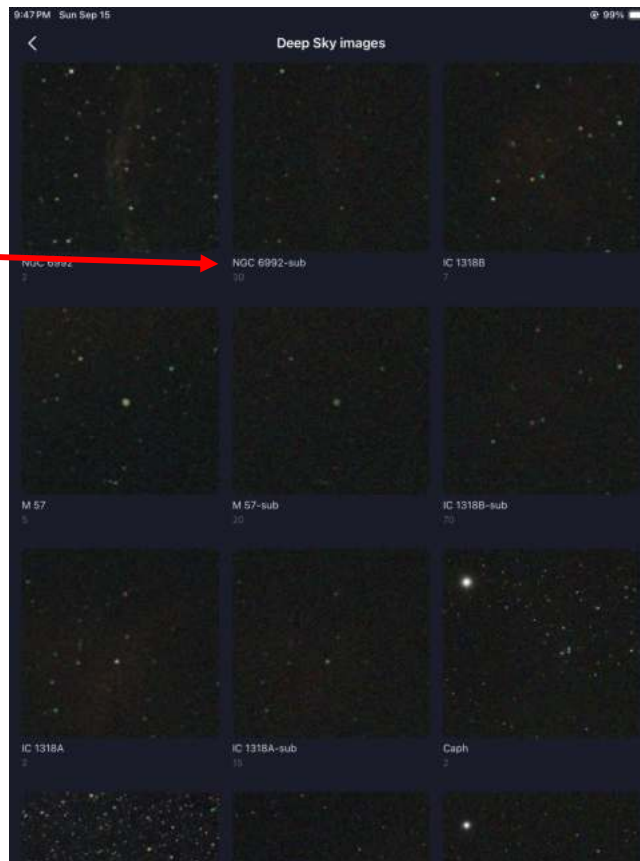
# Stacking Process Initiation



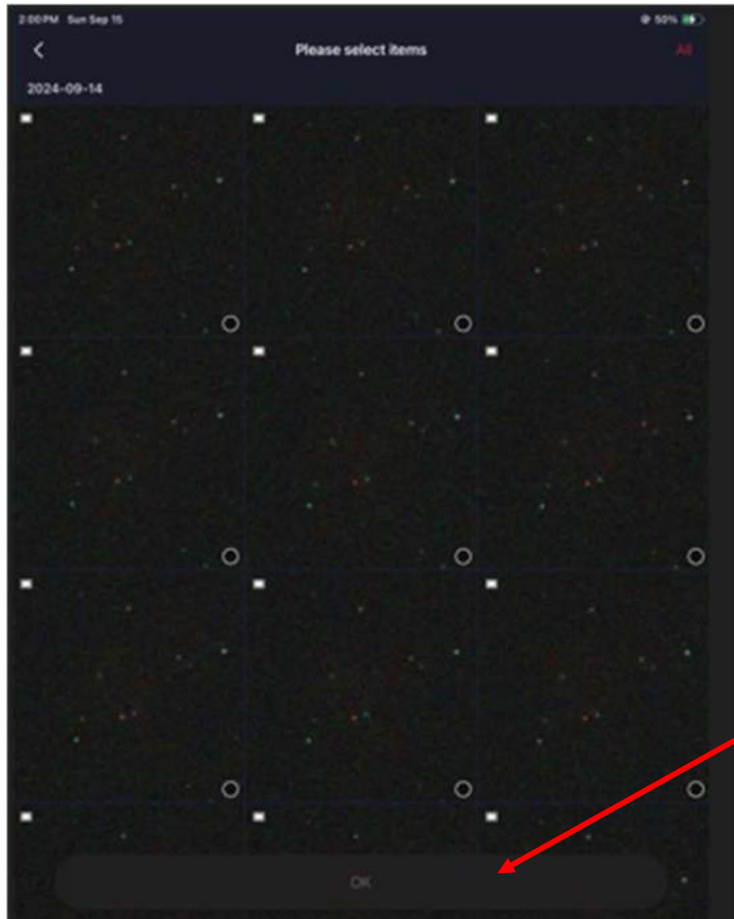
Click on Add Images

# Select NGC 6992-sub file for stacking

Select NGC 6992-sub



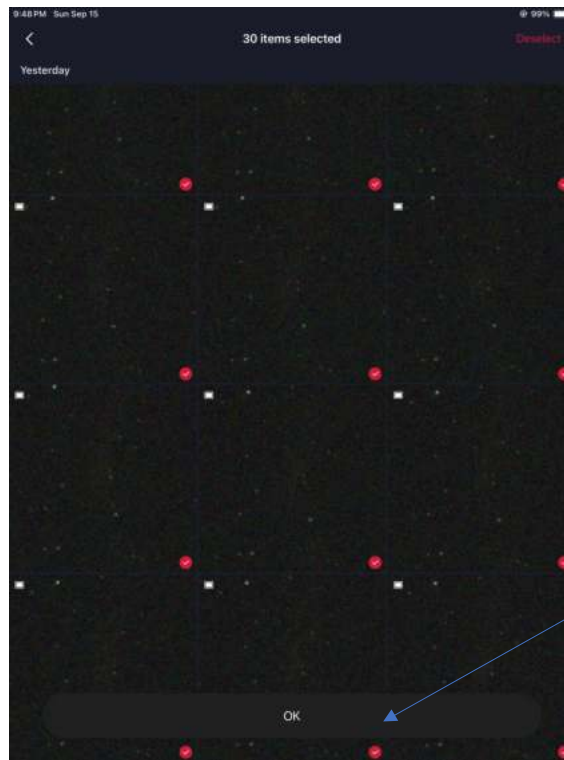
# Stacking Process for NGC 6992 Photos



**These are the individual photos  
that the Seestar took of NGC 6992**

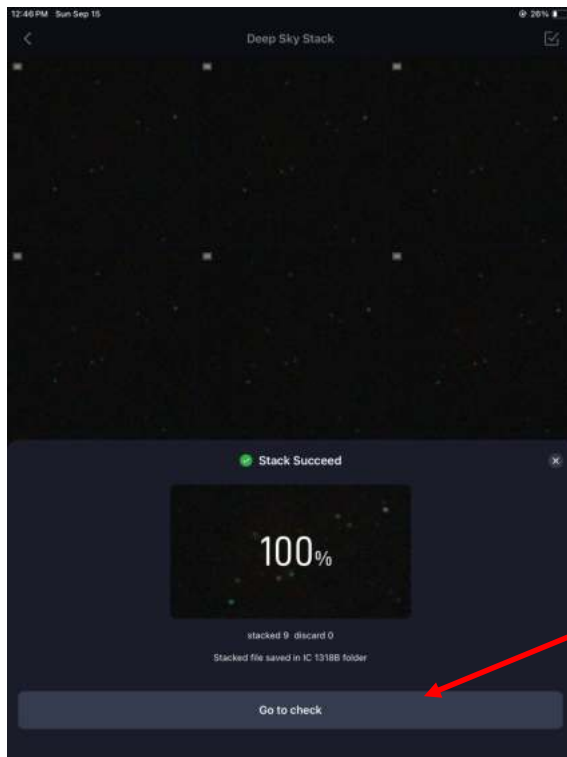
Click on each image you want to include  
in stacking process then click on OK at  
bottom of screen

# All Images Selected and ready to process



Click on OK to start stacking

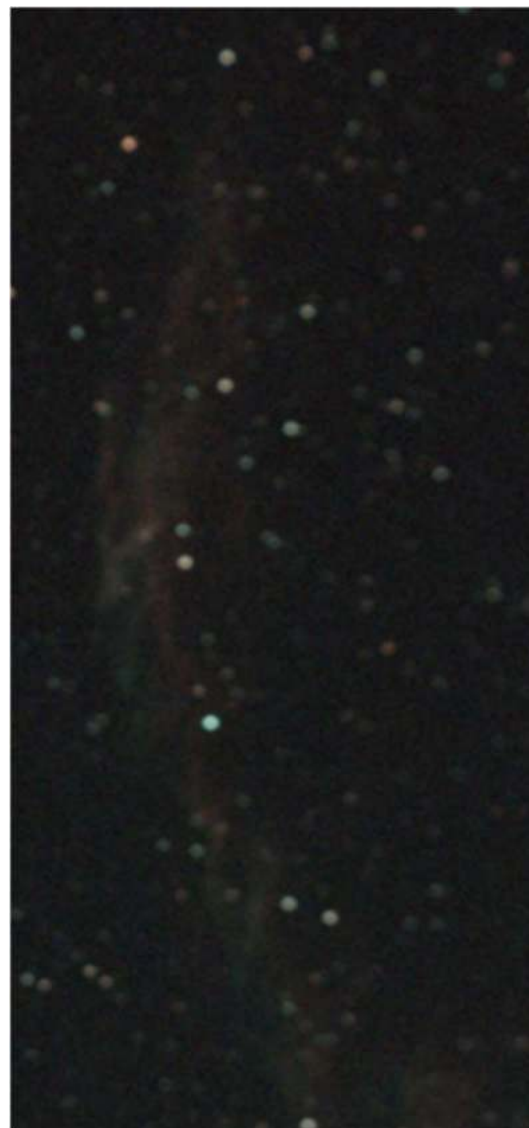
# Stacking Process Complete for NGC 6992 Photos



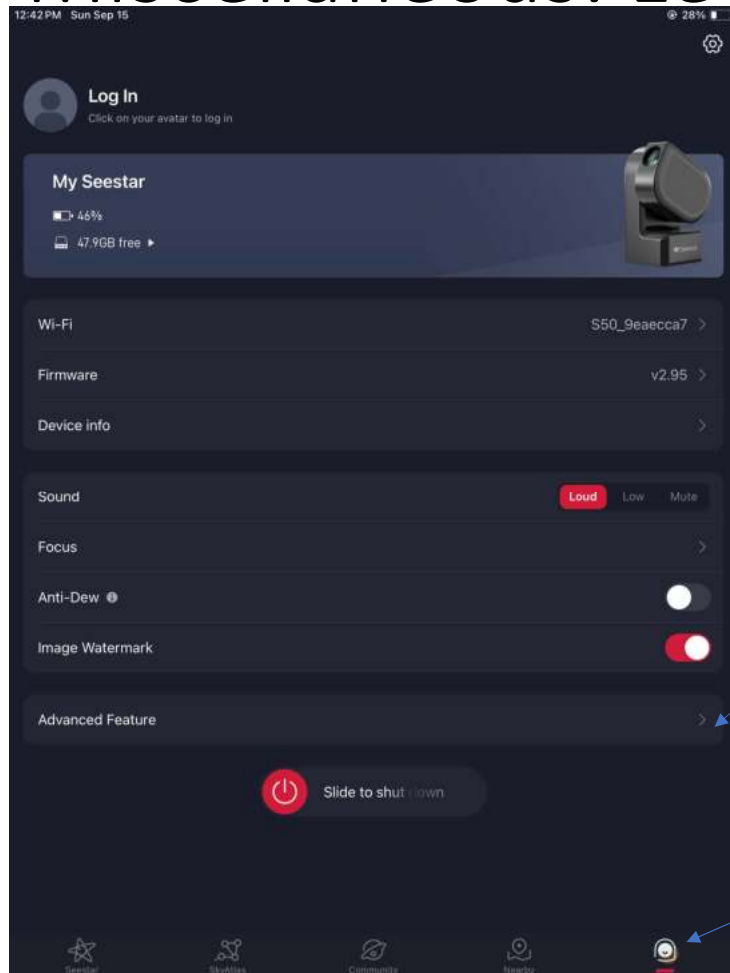
Stacking process is complete. Click on Go To Check to see final image

# Stacked Image of NGC 6992

All raw photo data and final images stored  
In "My Album" at main Seestar screen



# Miscellaneous: Levelling Check

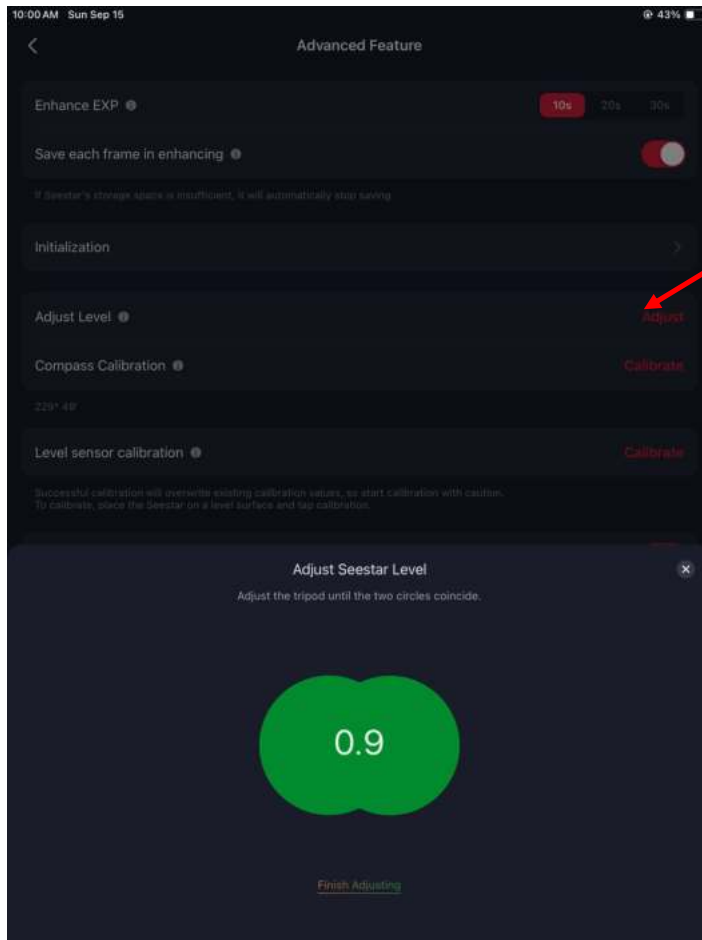


You can check via Seestar App, to confirm that scope is well levelled

**Step 2.** This generates this screen. Select “Advanced Features”

**Step 1.** From main Seestar screen, click on “Me”

# Miscellaneous: Levelling Check



Click on Adjust Level

Less than 2 indicates levelling is good, less than 1 is great

If not good enough, adjust tripod legs to lower this number to appropriate level



# Shutting Down

- Make sure black lens cap is in place.
- From Seestar App select “Close Arm”
- Press and hold ON/OFF button for 2 seconds.

Voice should say “shutting down”



# Charging Scope Battery

- Connect cable to base/side of scope
- Connect USB end into white adapter and plug adapter into wall plug

Use 1 Amp slot



# Reset Button

- After overnight charging or when unit tells you to, it may be necessary to push Reset button on bottom face of scope.



Reset Button

# Additional Option: Shield for ambient light

- Blue tube helps minimize light pollution interference



# Storage of Scope in Case



# Messier Objects

- [Messier Objects.xlsx](#)