
ROYAL ASTRONOMICAL SOCIETY OF CANADA
QVO DVCIT VRANIA
WINNIPEG CENTRE

HOWTO:
USING SEESTAR 30/50 IN EQ MODE

Gord Tulloch,
RASC, Winnipeg Centre

WHY BOTHER?

- Field Rotation
  - As an object travels across the sky it rotates especially near the zenith
  - Altaz mountings see this as distortions and noise around the edges of the stack
  - Need to take mosaics when you don't really need to so the object is clear of field rotation artifacts – much longer integrations needed
  - EQ Mode (Polar Alignment) eliminates field rotation
- Less Dropped Frames
- Longer Exposures? No - 10-20s max, no dithering leads to noise buildup

OPTIONS

- iOptron Alt-azimuth Adjustable Base #3327 ($100)
- Sky-Watcher Star Adventurer Latitude (EQ) Base S20530 ($100-$120 if dovetail)
- Aktuhrashid base ($175 from ebay)
- iOptron Precision AZ/EQ Base #3328 ($315)
- William Optics Vixen-style Latitude Base Mount ($325)

https://www.cloudynights.com/topic/958693-comparison-of-eq-wedge-base-options-for-smart-telescopes

TRIPOD

Ontario Telescope and Accessories

Search the store

My Account | Login CAD

Call us: (905)487-6363

Shop Information Brands On Sale Sales and Return Policy

Home / Mounts / Camera Mounts / Skywatcher / SKY-WATCHER - STAR ADVENTURER TRIPOD

Skywatcher

SKY-WATCHER - STAR ADVENTURER TRIPOD

(No reviews yet) ★★★★★ Write a Review

Your Price: $130.00

Klarna 4 payments of $32.50. Learn more

SKU: S20555
UPC: 50234205559

Quantity:

− 1 +

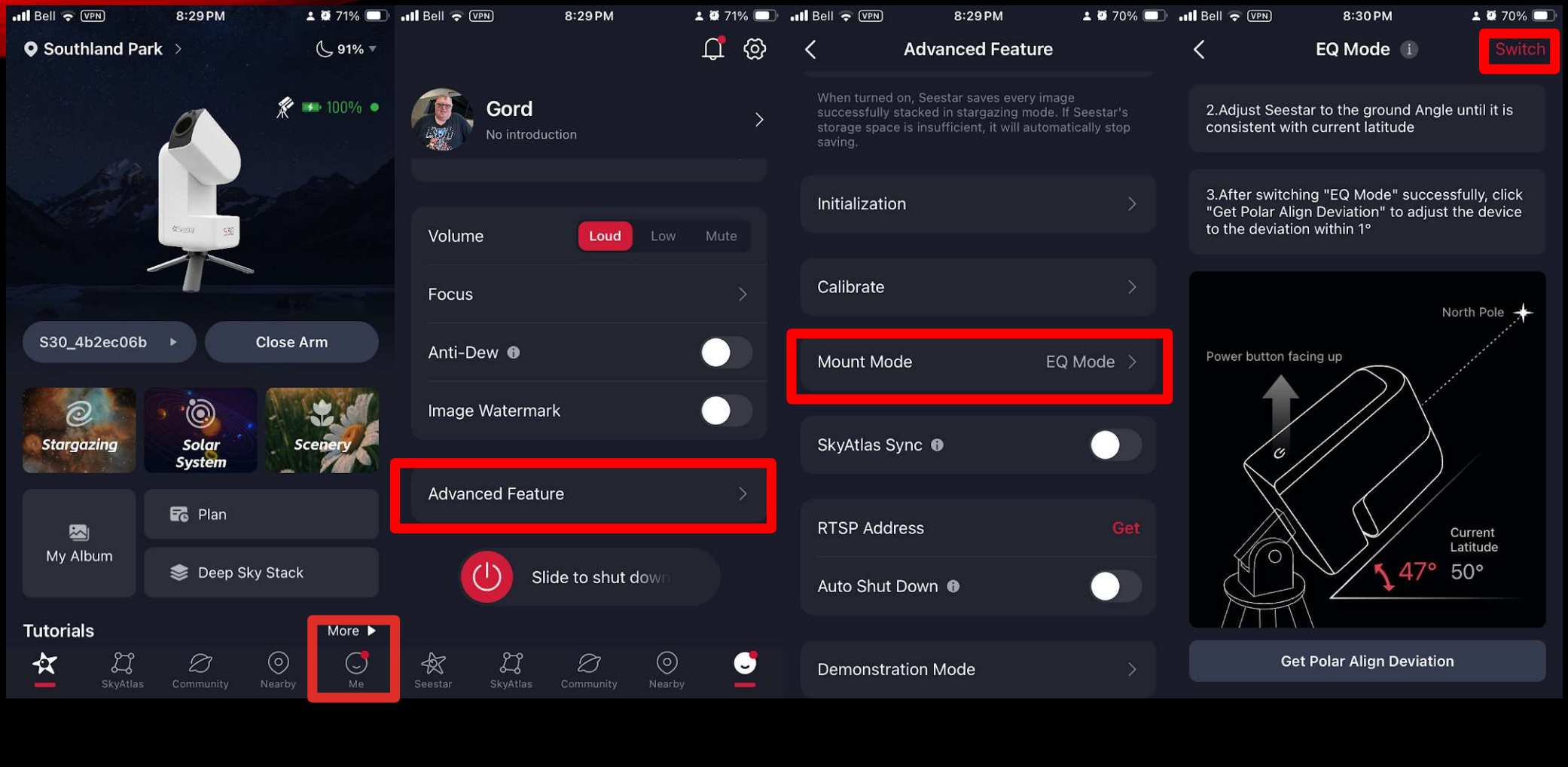
HOMEMADE / PHOTO TRIPODS

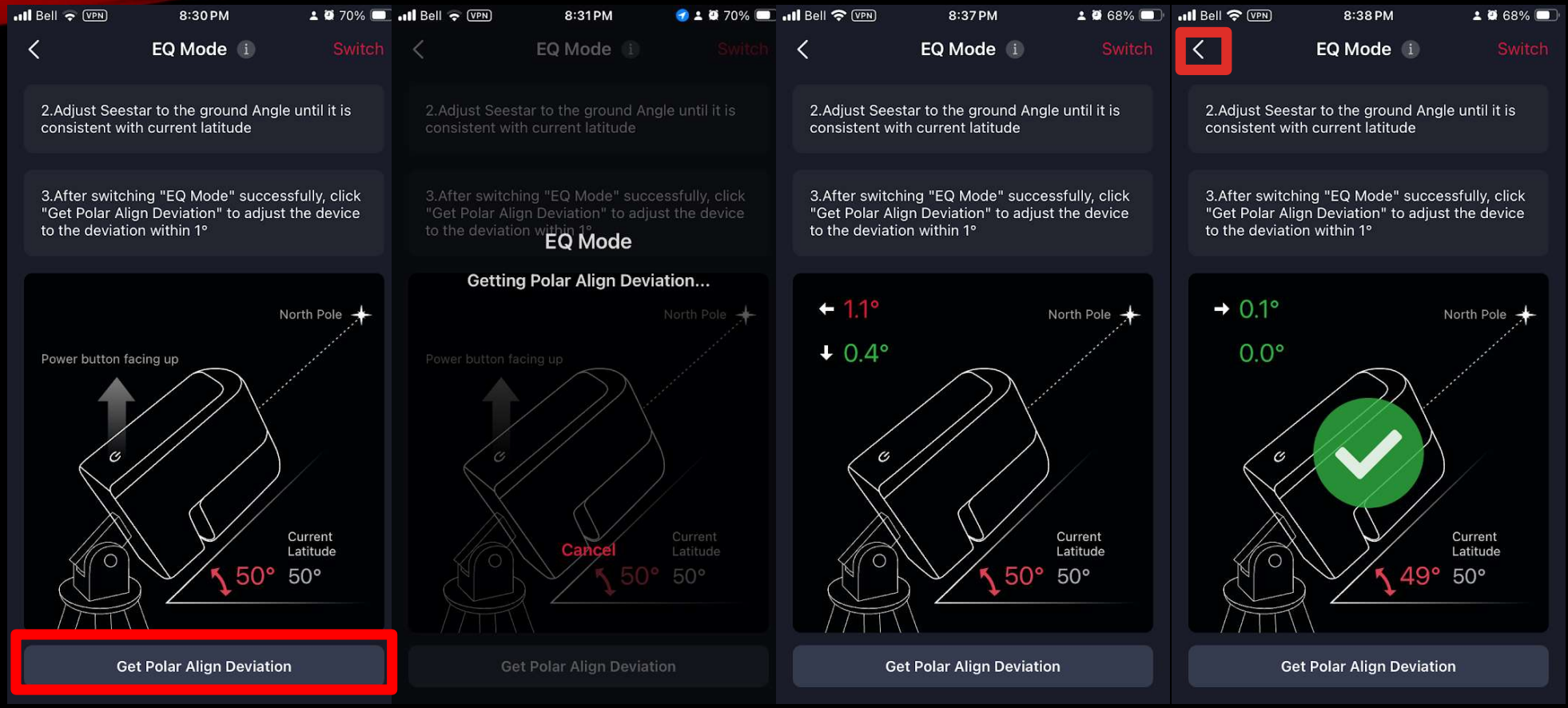
OTHER WEDGES

MY RIG

EQ MODE SETUP AND ALT/AZ ADJUSTMENTS

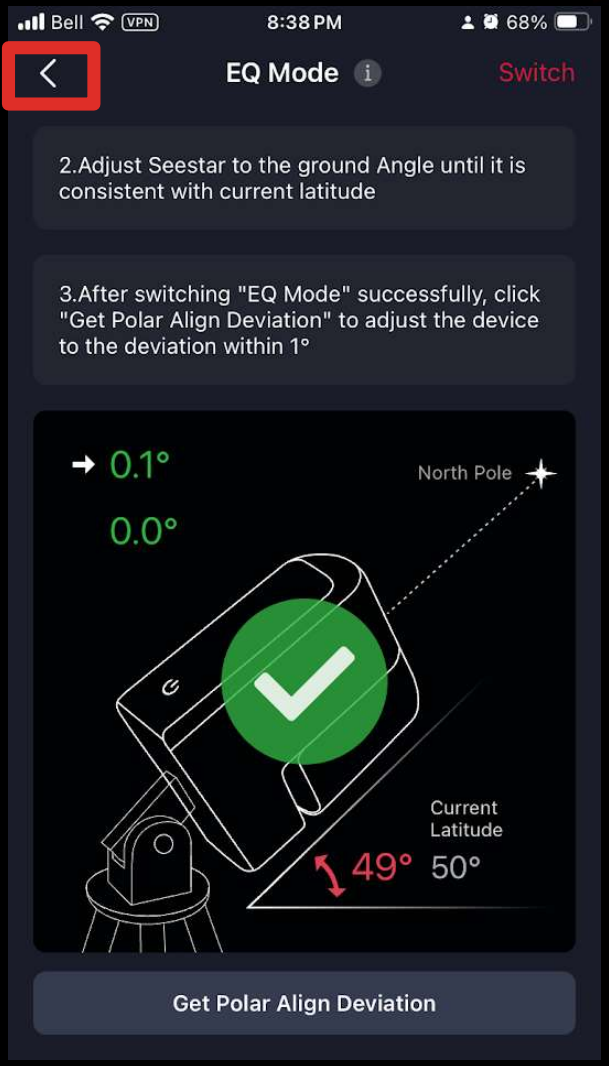
Note: Update the app on your phone/tablet so the next time you connect to the telescope it will update your firmware on the telescope!


Bell VPN 8:29 PM 71%
Southland Park
91%
100%
S30_4b2ec06b
Close Arm
Stargazing
Solar System
Scenery
My Album
Plan
Deep Sky Stack
Tutorials
More
SkyAtlas
Community
Nearby
Me
Bell VPN 8:29 PM 71%
Gord
No introduction
Volume
Loud
Low
Mute
Focus
Anti-Dew
Image Watermark
Advanced Feature
Slide to shut down
Seestar
SkyAtlas
Community
Nearby
Bell VPN 8:29 PM 70%
Advanced Feature
When turned on, Seestar saves every image successfully stacked in stargazing mode. If Seestar's storage space is insufficient, it will automatically stop saving.
Initialization
Calibrate
Mount Mode
EQ Mode
SkyAtlas Sync
RTSP Address
Get
Auto Shut Down
Demonstration Mode
Bell VPN 8:30 PM 70%
EQ Mode
Switch
2.Adjust Seestar to the ground Angle until it is consistent with current latitude
3.After switching "EQ Mode" successfully, click "Get Polar Align Deviation" to adjust the device to the deviation within 1°
North Pole
Power button facing up
Current Latitude
47°
50°
Get Polar Align Deviation


Bell VPN 8:30 PM 70%
EQ Mode
Switch
2.Adjust Seestar to the ground Angle until it is consistent with current latitude
3.After switching "EQ Mode" successfully, click "Get Polar Align Deviation" to adjust the device to the deviation within 1°
North Pole
Power button facing up
Current Latitude
50°
50°
Get Polar Align Deviation
Bell VPN 8:31 PM 70%
EQ Mode
Switch
2.Adjust Seestar to the ground Angle until it is consistent with current latitude
3.After switching "EQ Mode" successfully, click "Get Polar Align Deviation" to adjust the device to the deviation within 1°
EQ Mode
Getting Polar Align Deviation...
North Pole
Power button facing up
Cancel
Current Latitude
50°
50°
Get Polar Align Deviation
Bell VPN 8:37 PM 68%
EQ Mode
Switch
2.Adjust Seestar to the ground Angle until it is consistent with current latitude
3.After switching "EQ Mode" successfully, click "Get Polar Align Deviation" to adjust the device to the deviation within 1°
1.1°
0.4°
North Pole
Current Latitude
50°
50°
Get Polar Align Deviation
Bell VPN 8:38 PM 68%
EQ Mode
Switch
2.Adjust Seestar to the ground Angle until it is consistent with current latitude
3.After switching "EQ Mode" successfully, click "Get Polar Align Deviation" to adjust the device to the deviation within 1°
0.1°
0.0°
North Pole
Current Latitude
49°
50°
Get Polar Align Deviation

Altitude Adjustment

Azimuth Adjustment



INDICATOR LIGHTS

Rosette Nebula (Caldwell 49)

Seestar S39 Mosaic EQ 103mins

Markarian's Chain
Member galaxies include
M84 (NGC 4374), M86 (NGC 4406),
NGC 4477, NGC 4473, NGC 4461,
NGC 4458, NGC 4438 and
NGC 4435.

Seestar S30 22min EQ

QUESTIONS?

- My Web Sites
  - https://openastronomy.substack.com
  - https://www.openastronomy.ca
- My email
  - gord.Tulloch@gmail.com

First EQ Light – Rosette 20m uncropped