

# AAT-xx RF Panel Alignment Quick Start Guide

05/03/2016

Scan for Training



The AAT contains many features and functions not covered in this document. Refer to the complete AAT-xx operating instructions, available for download at [www.sunsight.com](http://www.sunsight.com). Review all training documentation prior to use.

## Attention New Users!!

PLEASE REVIEW THE FREE TRAINING VIDEOS AT  
<https://www.sunsight.com/index.php/training>

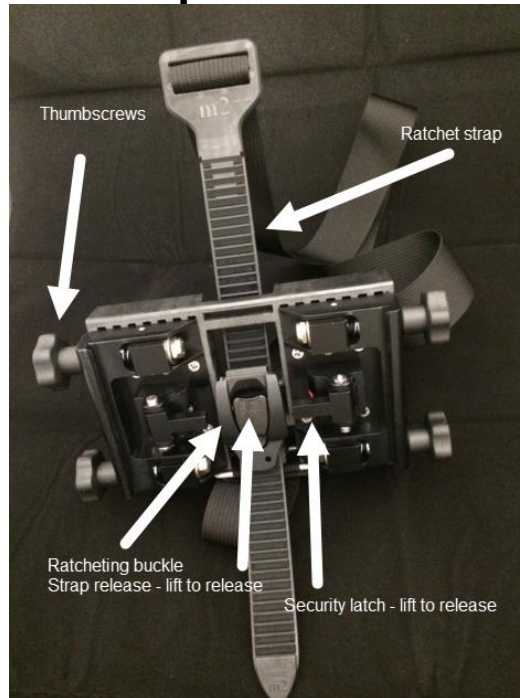
Please take time to:

- Review the *Sunsight AAT RF Panel Alignment System* operator's manual.
- Read and understand all safety precautions.
- Learn to mount the AAT properly.
- Learn the tips and tricks for obtaining GPS - based azimuth. Under normal conditions, azimuth acquisition should take less than 5 minutes. Refer to the free training videos at <https://www.sunsight.com/index.php/training>
- Mount the AAT as high as possible and in a way that allows the GPS antennas at the top of the AAT to have an unimpeded view of the sky. Remember that the user's hands, head, body, etc. can block GPS signals, as will most physical obstructions.
- If necessary, refer to the Diagnostics webpage provided by the AAT's onboard website for details concerning azimuth/GPS conditions. This webpage will guide the user to quick and successful resolution of most GPS signal issues.

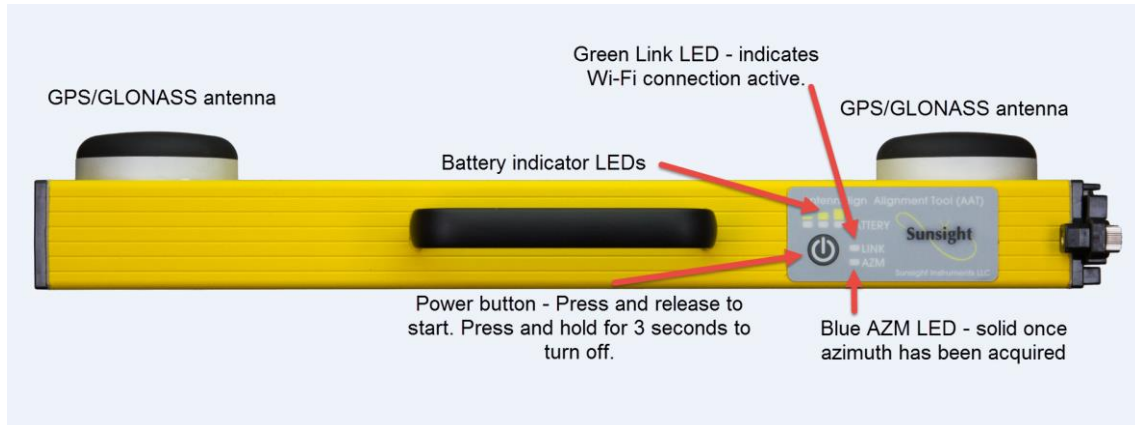
# The AAT-xx RF Panel Alignment Kit



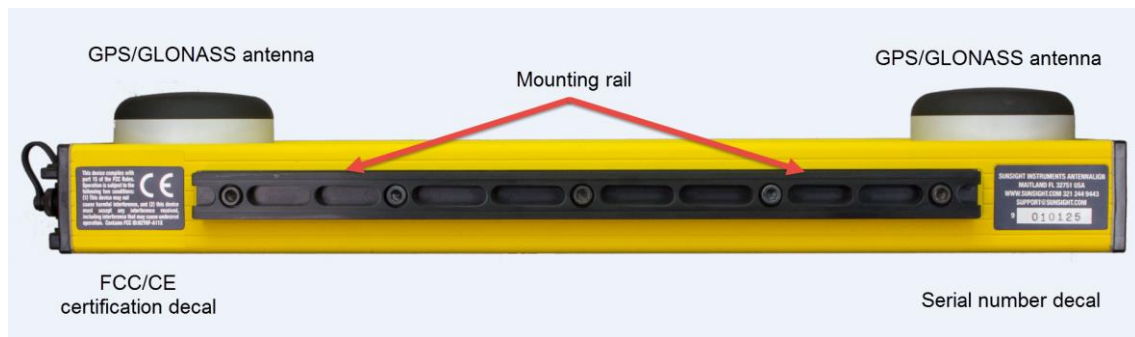
## The RF panel side mount



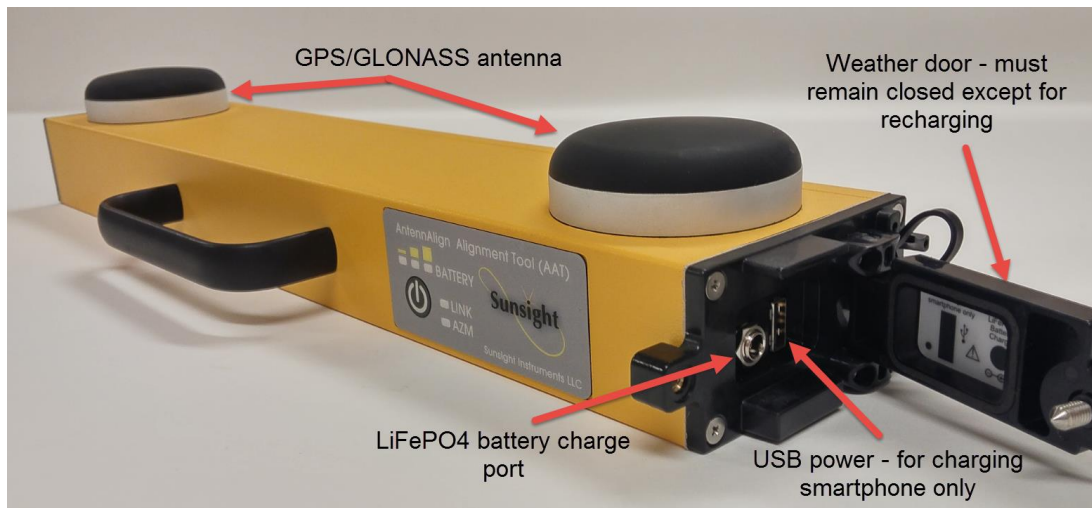
## The AAT



*Front View*



*Back View*



*Charging Ports*

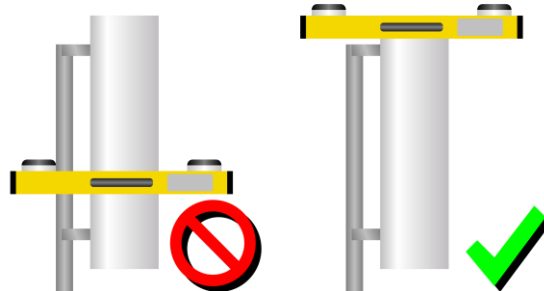
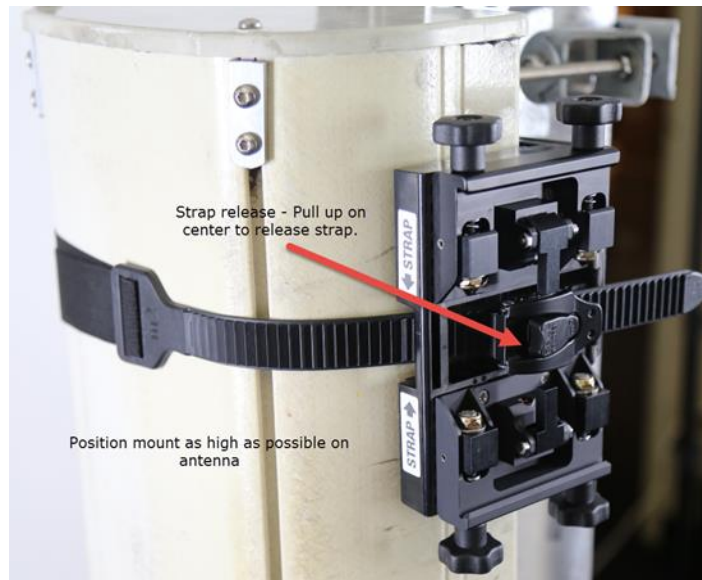
For optional accessories, spares or replacements, contact [sales@sunsight.com](mailto:sales@sunsight.com)

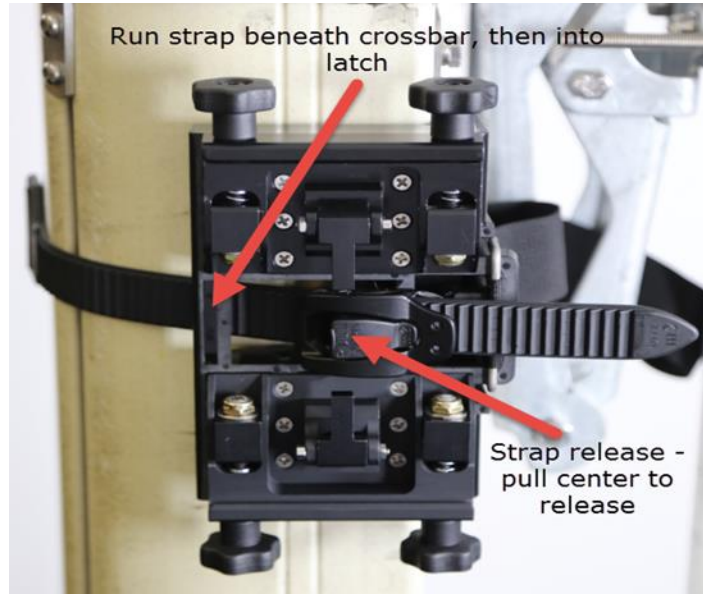
## Getting Started

- You will need an 802.11b/g/n compliant hand-held device with a web browser to control the AAT-xx.
- Virtually any smartphone, tablet or laptop may be used for this purpose.
- There is **no** software download necessary for use with the AAT-xx. A Wi-Fi connection and web browser are all that are required.
- Ensure the AAT and hand-held device have sufficient battery charge prior to field use.

### 1. Secure the RF panel side mount

- 1) Position RF panel side mount as high as possible on the antenna to be measured.
- 2) Loop mount strap around antenna, then under mount crossbar.
- 3) Feed strap end into ratchet buckle, then pull slack from strap.
- 4) Use the ratchet buckle to tighten strap. 2 – 3 clicks is usually sufficient to secure mount. **DO NOT OVERTIGHTEN!**
- 5) Ensure mount sits square on back/side of antenna. Adjust position as necessary.





## 2. Secure the AAT to mount

- 1) Secure AAT to mount by positioning upper lip of mounting rail on back of AAT into mount grip, then rotate AAT into to security latch. User should feel AAT "click" into position. Tighten both mount thumbscrews.
- 2) Secure AAT and mount to structure with the included safety lanyard. Attach lanyard to AAT handle and through provided loop in mount strap.





### 3. Power on and connect to the AAT

- 1) Power on AAT.
- 2) Power on and enable Wi-Fi on the device being used to communicate with the AAT. Connect to the Wi-Fi hotspot **AAT 901xxx**. See User's Manual for device-specific instructions. For most Android devices:
  - a) Click "Settings"
  - b) Click "Wi-Fi"
  - c) Enable Wi-Fi, if necessary.
  - d) Select Wi-Fi hotspot AAT 901xxxx
  - e) Once connected, the green Link LED on the AAT keypad will illuminate.
- 3) Log in to the AAT by clicking the AAT shortcut on the Android's (if purchased with AAT) homepage, or by opening a web browser and navigating to **192.168.0.50**

### 4. Capture alignment data

The user may perform as many captures to a specific profile (antenna) as desired. The reports generated by the AAT will always display *only* the **First** - "As you found it" - and **Final** - "As you left it" - captures stored to a profile.

To capture data to a previously created profile:

Click the **Profiles/Capture/Report** link.

- 1) Click the jobsite button to be captured.
- 2) Use the Prev Profile and Next Profile buttons to scroll through available antenna positions stored under the jobsite.
- 3) Click the **Full Capture** button to capture all alignment data or Scope Capture to capture azimuth only.
  - a. NOTE: Selecting Scope Capture will not allow tilt, roll or height measurements to be saved, although these measurements will still be displayed on-screen!
- 4) At the top of the page, ensure Orientation is correct. Click the Apply button to save any change to Orientation.

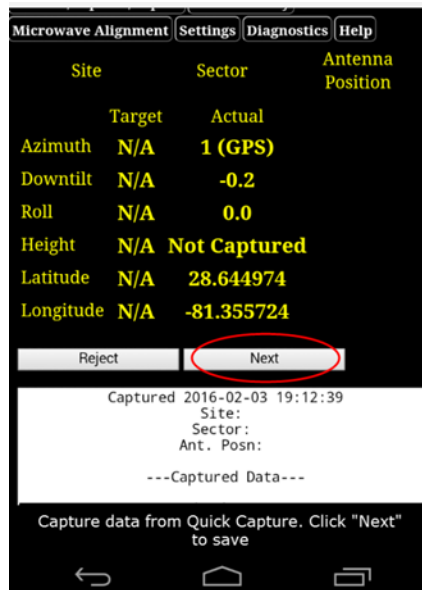
**Alignment Details**  
AZM: COM: 2016-02-03 19:09:44  
Profiles/Capture/Report Measure Only  
Microwave Alignment Settings Diagnostics Help  
Submit Cancel  
**Profile**  
Site Sector Antenna Position  
Test Alpha (1) A1  
**Capture**  
Alignment Target  
Azimuth: 0  
Mechanical Downtilt: 0.0  
Roll: 0.0  
Height (ft): 0.0  
Latitude: 0.0  
Longitude: 0.0  
Show Optional Fields  
Submit Cancel  
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Orientation behind antenna: AAT Faces Back  
Apply Set orientation, then click "Apply"  
Site Sector Antenna Position  
Test Alpha (1) A1  
Azimuth Target Actual  
Azimuth 0 0  
Downtilt 0.0 -0.2  
Roll 0.0 0.0  
Height (ft) 0.0 ---  
Latitude 0.000000 28.644973  
Longitude 0.000000 -81.355724  
MSL Height (ft) 105 ft  
Lat/Long Acc 1.18 ft  
Pos. Correction Yes  
Capture 5sec/5sec Capture 15sec/15sec  
Capture 30sec/30sec  
Select timer delay

- 5) Align "Actual" measurements on-screen to displayed target values.
  - a. If recording AGL height, connect Laser Rangefinder to AAT and capture AGL height now.
  - b. If no target values were input during profile creation, refer to RFDS for targets.
  - c. Select the required capture delay time by clicking appropriate button.
  - d. Review captured data displayed on-screen.
  - e. Click the Save button to save captured data to the AAT.
  - f. Repeat *Steps 2 – 5* for all antennas to be aligned under selected jobsite.
  - g. Power down AAT prior to descent.

## 5. Using the "Quick Capture" feature

- 1) Click the **Measure Only** link.
- 2) If capturing AGL height, connect Laser Rangefinder to AAT and capture AGL height now.
- 3) On the live measurements page click the **Quick Capture** button.
- 4) After the timer countdown, captured information will be displayed.
- 5) Click the **Next** button to input site information and store to AAT or click the **Reject** button to return to the live measurements page to begin again.
- 6) Input **Site**, **Sector** and **Antenna Position**.
- 7) Click either **Submit** button available at the top and bottom of page to save the data.
- 8) Power down AAT prior to descent.

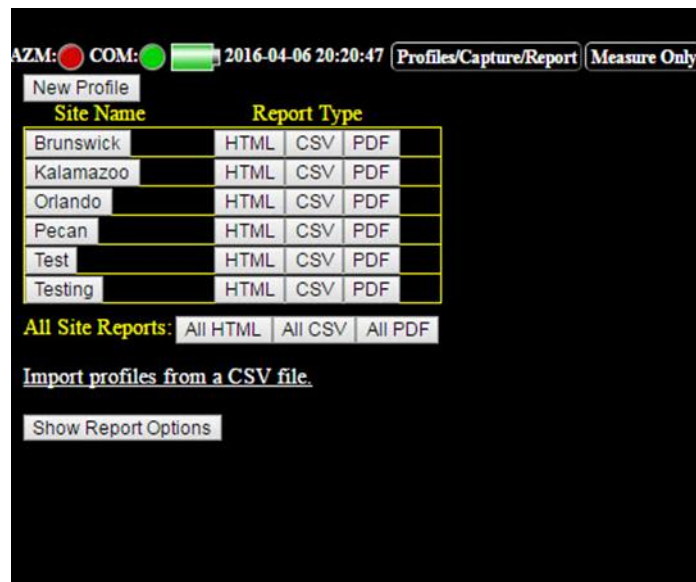


## 6. Generate reports

Note: Reports may be generated and emailed directly from the field prior to departure from the jobsite.

- 1) Power on AAT
- 2) Power on and enable Wi-Fi on the device being used to communicate with the AAT. See User's Manual for device-specific instructions.
  - a. For most Android devices:
    - i. Click "**Settings**"
    - ii. Click "**Wi-Fi**"

- iii. Enable Wi-Fi, if necessary.
- iv. Select Wi-Fi hotspot **AAT 901xxxx**
- v. Once connected, the green Link LED on the AAT keypad will illuminate.
- b. For Windows operating systems:
  - i. Ensure Wi-Fi is enabled.
  - ii. Click the Wi-Fi icon in lower right computer screen.
  - iii. Select Wi-Fi hotspot **AAT 901xxxx**
  - iv. Click "Connect"
- 3) Log in to the AAT by clicking the **AAT** shortcut on the Android's (if purchased with AAT) homepage, or by opening a web browser and navigating to **192.168.0.50**
- 4) Click the **Profiles/Capture/Report** link near the top of the web page.
- 5) Locate the site name for the report to be generated.
- 6) Click the **PDF** button next to the jobsite button to download a PDF report to your hand-held device.
  - a. Reports remain on the AAT for later retrieval until the user manually deletes the profile or erases the internal SD card.



For questions regarding use and care of the AAT, contact SunSight Instruments Technical Support Monday – Friday 9:00am to 6:00pm Eastern.

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[www.sunsight.com](http://www.sunsight.com)