

USING THE SIDE MOUNT EXTENSION

For AAT and AAT Mini Models

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Safety

The AAT should be handled using the following considerations:

 There are no user-serviceable parts within the AAT. All internal repairs must be performed by Sunsight Instruments.

 Use only the Sunsight supplied smart charger to recharge the LiFePO4 battery pack. Use of a non-approved battery charger will void the battery warranty and can damage the battery pack.

 Never attempt to recharge the batteries outdoors in inclement conditions.

 Never short the battery terminals, attempt to disassemble the battery pack, or dispose of the pack in a fire. Any exhausted battery packs must be disposed of properly. CONTACT SUNSIGHT INSTRUMENTS IF YOU ARE UNSURE OF HOW TO PROPERLY DISPOSE OF THE BATTERY.

 The AAT is water resistant, but not waterproof. Do not submerge or leave the unit in standing water. All sealing caps and doors must be secured while in use, particularly during inclement weather.

 Avoid impacting, dropping or rough handling of the AAT. The AAT contains sensitive electronic components. Rough handling may result in internal component damage.

 Care should be taken to avoid impact to the black GPS antennas on the top of the AAT.

If you suspect the AAT is operating incorrectly, contact Sunsight Instruments or an authorized Sunsight Instruments distributor for support.

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This document will cover the correct usage of the Side Mount Extension for the AAT and AAT Mini alignment products.

Before attempting to use the Side Mount Extension or any accessories, please review all training materials and familiarize yourself with the: AAT/AAT Mini/AAT Max Quick Start Guide which provides the basis for using the AAT and AAT Mini.

This document assumes that the user has read and understands all AAT training and safety materials.

For the remainder of **this document, the term "AAT" will mean** both the AAT and AAT Mini alignment systems.

This document assumes that the AAT, Side Mount, and Side Mount Extension have been prepared and maintained.

Overview

The Side Mount Extension is designed to allow users to extend the AAT in front of the antenna to avoid overhead obstructions such as ice bridges, parapets, platforms, shrouds, other antennas, and other obstructions that might block the line-of-light GNSS signals.



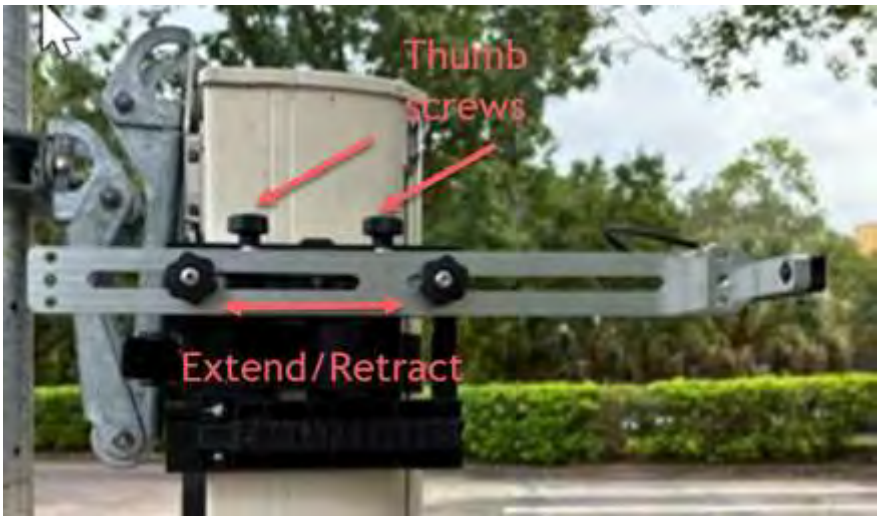
Side Mount Extension



Side Mount Extension on Antenna (with and without AAT)

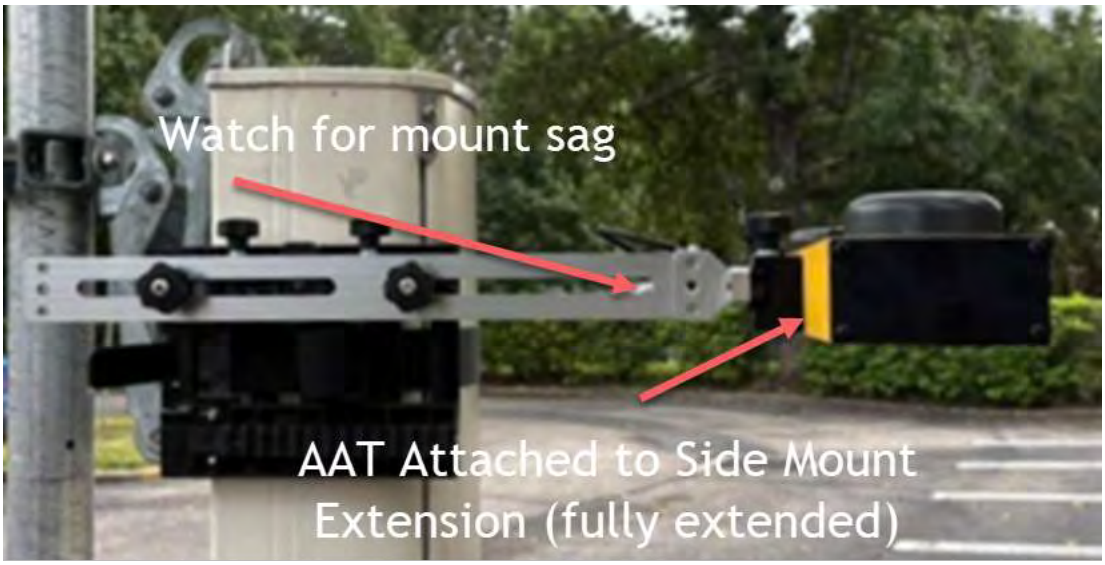
1. Secure the Side Mount Extension to the AAT Side Mount

1) Install the AAT Side Mount to the antenna in the standard way.
2) Install the Side Mount Extension onto the Side Mount by attaching the grip on the Side Mount Extension onto the upper rail of the Side Mount.
3) Tighten the Side Mount Extension thumbscrew knobs to secure the Side Mount Extension to the Side Mount.



2. Secure the AAT to the Side Mount Extension

1) Attach the AAT to the Side Mount Extension mounting rail using the grip plate on the back of the AAT. The AAT grip plate will click onto the rail section on the front of the Side Mount Extension. The user should feel AAT "click" into position.
2) Tighten AAT thumbscrews to secure the AAT to the Side Mount Extension.
3) Secure the AAT and Side Mount Extension to a stable structure using a safety lanyard to prevent potential a falling hazard.
4) Extend the Side Mount Extension as required to position the AAT for best GNSS signal reception.
5) Review the mount to verify it does not sag once the AAT is extended. Note that the tilt measurement can be affected by sagging.



3. Measuring, Capturing and Reporting Alignment Data

1) Connect to the AAT in the standard way by powering on the AAT and connecting using WiFi or USB-C cable (see Quick Start Guide for detailed instructions). The WiFi connection can be made using the Android App (required for photos)

2) On the AAT Measure page, set Orientation to **"Faces** Front**"** and click Apply.

3) Perform antenna adjustments to match desired alignment and save results.

4) To capture more accurate tilt and roll measurements, retract the bar to pull the AAT in tight to the antenna to minimize potential mount sag. Note tilt and roll in

that position.