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#### AntennAlign Alignment Tool (AAT) Field-proven, High-quality Antenna Alignment Solution

#### **Overview**

Utilizing leading-edge technology, Sunsight's AntennAlign Alignment Tool (AAT) delivers unprecedented performance. The new AAT models (AAT-30, AAT-15, and AAT-08) ensure the precise antenna position in the field for the intended RF network design, bringing accuracy during deployments, installations, and ongoing operations. Initial antenna position installation is critical during cell site antenna upgrades or new cell deployments for post installation network performance. Incorporating a number of exclusive features, the AAT is the most accurate and rugged tool on the market. The AAT saves time and money by eliminating costly site re-visits and re-climbs. Key parameters such as latitude, longitude, azimuth, tilt, roll, height, installer, and current date/time are saved for generation of comprehensive reports by the AAT for documentation purposes.

After mounting, the installer adjusts the antenna according to pre-determined specifications until all positions align, then tightens the mounting brackets and presses the "capture" button to store the final alignment specifications.

#### Highest Accuracy

Performance Highlights - The AAT integrates dual accelerometers (they are digital inclinometer, global positioning satellites (GPS and GLONASS), and laser range finding to take precise antenna alignment measurements. The AAT employs a dual approach using both GPS and GLONASS constellations for faster azimuth determination, even in environments where the sky is partially obscured. The AAT-30 allows for realtime accurate azimuth measurements up to  $+/-0.3^{\circ}$  RMS and +/-0.75° R99\*, and downtilt and roll captures to an accuracy of +/-0.1°. This allows for correctly installing antennas the first time, eliminating site re-climbs and re-visits. Additionally, network performance issues due to antenna misalignment are reduced. The AAT ensures designed coverage and improved carrier to interference-plus-noise ratios (CINR) for faster 4G LTE data throughput and better coverage for all networks, including 2G/3G. The AAT also captures extremely accurate positioning data (Lat/Long to +/- 30cm) This horizontal accuracy is a critical component for meeting the E911 Phase 2 location requirements.

## Rugged, Durable Design

AATs are proven to be more reliable in the field than comparable instruments. The AAT-30 is smaller and lighter than its predecessor by powder-coated aluminum housing, the AAT is shock resistant, sealed from harsh weather conditions. The FCCand CE-certified AAT also features a Sunsight exclusive noise-shielding design that allows it to work in "hot" RF environments where other tools fail.

#### **Technical Specifications**

#### Accuracy: Value Azimuth R99\* .75° Azimuth RMS\* .3° Tilt/Roll .1° Position\* 30 cm w/SBAS Altitude With LRF 30 cm (AGL) **GPS** Receiver 540 channel Satellite Constellations GPS and GLONASS **Batterv:** LiFePO4 Type 7-8 hrs Life Charge Time < 3 hrsCharger 100-240VAC Weight: 3.7 lbs; 1.6 kg Unit 1.2 lbs; .54 kg Mount **Unit Dimensions** 17"x3.8"x1.7" 43.2cmx9.6cmx4.3cm **Environment:** -40°C to 70°C Op Temp Storage Temp -40°C to 85°C Humidity 95% Communications 802.11b,g,n Output PDF, CSV, proprietary encrypted format Memory 8 GB Industry certifications CE and FCC

Versatile

Simple to operate, the AAT it

can be mounted to the top.

side, and front or back of

antennas, all depending on

the user's needs. Antenna

alignment profiles and

reports can quickly and

software is required.

## **Tool of Choice**

More carriers, turf vendors, and equipment vendors recommend and/or mandate the AAT than any other antenna alignment tool. Visit on now to request an appointment with one of our sales engineers.







#### **Accessories**

Part #	Description
P/N SS-T-LsrR-Kit 1	<b>LASER Rangefinder ('Laser Tape Drop')</b> - enables AAT to capture Above Ground Level (AGL) height to +/- 1 ft. (0.3 meters) Measurements can be used in lieu of a traditional tape drop.
P/N SS-T-AzmScope-Kit-1	<b>Azimuth Scope Kit</b> - allows AAT user to measure antenna azimuth from the ground within +/-2.5°. Especially useful for quick audits for towers with T-booms, Powerpoles, or Osprey nests where climbing and installing AAT on panel antenna is not permitted.
Mounting System	Mounts available for any antenna installation such as, top, side, round, microwave etc.

Custom mounting brackets available with request.

Sunsight Instruments, LLC

125 Candace Drive, Maitland, FL 32751 Tel: +1 (321) 244-9443 sales@sunsight.com www.sunsight.com