Sunsight

AntennAlign Alignment Tool (AAT)

Field-proven, High-quality Antenna Alignment Solution

Overview

Sunsight's AntennAlign Alignment Tool (AAT) utilizes leading-edge techniques to deliver unprecedented performance that helps ensure the integrity of your RF designs are maintained when wireless networks are deployed, installed, and operated. Incorporating a number of exclusive features, the AAT is the most accurate and durable tool on the market, and eliminates costly site re-visits and re-climbs, saving time and money.

The AAT is simple to operate and is available in a variety of mounting options to meet the most challenging antenna configurations. 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, along with other key parameters, such as latitude, longitude, installer, and current date/time. Comprehensive reports can be generated by the AAT for documentation purposes.

Performance Highlights

Highest Accuracy – The AAT integrates accelerometers, global positioning satellites, and laser range finding to take precise antenna measurements. A unique two-GPS system approach is used for real-time accurate azimuth measurements up to +/-0.3° RMS and +/-1.0° R99, and downtilt and roll captures to an accuracy of +/-0.25°. This means antennas are installed correctly the first time, eliminating site re-climbs and re-visits. The AAT also helps ensure designed coverage and improve carrier to interference-plus-noise ratios (CINR) for faster 4G LTE data throughput and better coverage for all networks, including 2G/3G.

Design

The AAT utilizes a durable powder-coated aluminum housing, and has been proven to be more reliable in the field than comparable instruments. The AAT is sealed from dust contaminants and resistant to harsh weather conditions. The FCC- and CE-certified AAT also features a Sunsight exclusive noise-shielding design that allows it to work in "hot" RF environments where other tools fail.

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Versatile

The AAT is the only tool that can be mounted in a variety of configurations to fit any installed antenna setting. It can be mounted to the top, side, front or back of antennas, depending on the user's needs. An on-board gyroscope option allows antenna alignment to be maintained when GPS satellites are obscured. Antenna profiles and reports can be quickly and easily generated via a web-based software GUI accessed through RF45 or WiFi using any standard PC or handheld device that can support a web browser. No proprietary software is required.

Tool of Choice

More carriers, turf vendors, and equipment vendors recommend and/or mandate AAT than any other antenna alignment tool.

Specifications

Azimuth Accuracy	+/-0.3° RMS; +/-1.0 R99
Tilt Accuracy	+/-0.25°
Roll (Plumb) Accuracy	+/-0.25°
Height Accuracy	+/-0.3 meters to 1,000 meters
Weight	8 lbs. (3.6 kg) w/ batteries
Power	LifePO4 re-chargeable batteries. 13-20 hours depending on Wi-Fi use

Accessories

Part #	Description
P/N SS-T-Wireless 1	**Wireless Communication with Remote Control Software** – provides access to onboard software via Wi-Fi adapter. It adds the ability to monitor real-time alignment measurements, trigger a capture, and review the captured results from the ground.
P/N SS-T-LsrR-Kit 1	**LASER Rangefinder ('Laser Tape Drop')** – 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	**Azimuth Scope Kit** – 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.
P/N SS-T-Side-Mount-Ext-1	**AAT Side Mount Extension** – allows AAT to be used on the front of panel antennas. Especially useful on flagpole towers or any site where access to the antenna side/back is limited.
P/N SS-T-Round-Adapter-1	**AAT Round Antenna Adapter** – allows AAT to be used on a variety of round (column-shaped) antennas (5-14" diameter).

Custom mounting brackets available with request.

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