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A Major Advancement in Antenna Alignment Systems

Live Antenna Alignment

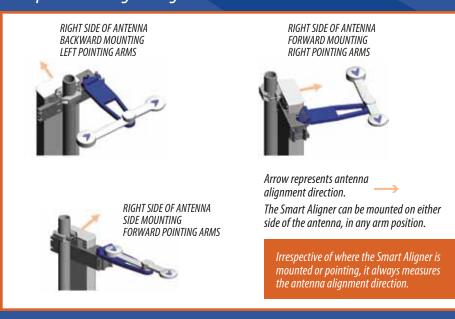


Image courtesy of Fortune Wireless, Indianapolis, IN.

Foldable and Easily Transportable



Multiple Mounting Configurations



Smartphone Enabled





Smart Aligner Features

- First foldable GPS Antenna Alignment Tool
- Universal Mounting Bracket only one bracket required
- Multiple antenna mounting configurations for the most demanding spatial and RF conditions
- Tool and Bracket fit into Ruggedized Case
- Carry on baggage acceptable size
- Included Backpack to carry the Tool and Bracket – all included weighs 10 pounds
- GLONASS (Global Navigation Satellite System) enabled for increased performance

- Free smartphone *app*
- Pre-site setup using *app*:
 - » Azimuth and Tilt targets
 - » Sector/Position
 - » Antenna types
- Measure, Verify and Save data using app
- Create Report from app
 - » Include up to four photos in the report
 - » Email Report directly from app
 - » Database-ready data
- Import emailed Site data directly to app

Smart Aligner Specifications

Performance

0.50 Azimuth accuracy: 0.10 Tilt and roll accuracy:

60 cm with SBAS Position accuracy: Start up time: < 30 seconds

Power

Rechargeable lithium ion Internal battery: Operation time: 7 hrs (over 80 alignments) Battery charger: AC wall charger and DC car charger

Physical

Smart Aligner Tool (patent pending)

19"x 4.5"x 3" (48.3 cm x 11.4 cm x 7.6 cm) Dimensions:

4 lb (1.8 kg) Weight:

Universal Mounting Bracket (patented)

19"x 5"x 3" (48.3 cm x 12.7 cm x 7.6 cm) Dimensions:

Weight: 5 lb (2.3 kg) **Carrying Case (contains all components)**

21"x 16"x 8.5" (53.3 cm x 40.6 cm x 21.6 cm) Dimensions:

12 lb (5.4 kg) Weight: TOTAL WEIGHT 21 lb (9.5 kg)

Communication Ports

LED backlit display: User interface and display

Wi-Fi: Smart Aligner to user's mobile device Connectivity: Smartphone/Tablet - iOS or Android

Serial RS-232 Cable interface:

Reporting

Report formats: JPEG (screenshot), PDF or CSV Photos: Embedded in PDF report

Photos can also be used as a backup, by taking a picture of the User Display.

Environmental

Operational temp: -22° F to +158° F (-30° C to +70° C)

Sealing: NEMA 4X, IP67 Shock/vibration: IEC 68-2-27 / IEC 68-2-6

EMI: FCC Part 15 Subpart B: 2008 and ICES-003:2004



Mounting Configurations to Antenna

Multiple offset positions from bracket: forward, side, backwards on left or right side of antenna

Multiple arm positions: user can orientate the arms according to physical limitations Offset and arm position tracking: sensors track tool configuration and adjust the azimuth and tilt relative to antenna

Number of mounting configurations: 18

Modes of Use (Smart Aligner App)

Quick measure: real time display of antenna orientation information with option to save a screenshot of the data

Site survey: set up of site and antenna information

Align antenna: real time display of antenna orientation information with option

to verify the alignment

Verify: verify the alignment - ability to "Save" the alignment information after verification Report mode: create PDF reports from verified alignments or historically saved sites - automatic attachment to email message

Import profiles: import CSV file with site and antenna information

Export profiles: export completed CSV file with appended measured alignment

information - automatic attachment to email message



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