



RF VISION
antenna alignment tool
ALIGN. OPTIMIZE. REPORT.

Antenna Alignment Tool
with **Camera**





Why is Antenna Alignment Important?

During the installation of your wireless network, antenna alignment counts. Companies spend millions of dollars to plan and design wireless and microwave networks. As you plan the coverage objectives, it is critically important that your antenna alignment is accurately implemented during the installation. Otherwise, it will result in coverage gaps, network performance degradation and loss of revenue.

It is equally important that the installers are equipped with an effective and reliable antenna alignment tool. This gives you the confidence that installers performed the job as indicated on the RF design specifications.

What are the benefits?

- Reduces OPEX costs
- Guarantees field installation and RF Design match
- Maximizes voice quality & data traffic
- Improves data user throughput & KPIs
- Reduces churn
- Keeps your customers happy

Amazing Just Got Better

In 2012, 3Z disrupted the industry with the 3Z RF Aligner, the world's leading antenna alignment tool for both panel and microwave antenna systems, accurately measuring antenna **azimuth, tilt, roll and height**.

In keeping with that same spirit of innovation, RF Vision Antenna Alignment Tool brings an unprecedented level of accuracy and reporting capabilities with a **built-in camera and augmented reality**.

New Features

- Mechanically Aligned with Camera
- Bullseye Target Alignment with Augmented Reality
- Rugged Design & Weather Resistant
- Impact-Resistant 5" Touch Screen Display
- Dual Frequency Technology
- 5G-Ready Accessories
- Mobile App to Share Line-of-Sight Reports

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Available Connectivity

5G Ready

5G will largely be deployed in a small cell format using high-band millimeter-wave (mmW) frequencies. High gain millimeter-wave antennas will produce pencil like beams which require LOS (Line-of-Sight) or NLOS (Near-Line-of-Sight) to achieve high data rates.

To maximize the use of high-band mmW frequencies and Massive MIMO beamforming antenna performance, precise antenna alignment and an LOS survey are critical during and after installation.

RF Vision is ready to help you service 5G networks.



Dual Frequency GNSS Technology

RF Vision connects to GPS and GLONASS.

Dual frequency GNSS technology allows RF Vision to measure satellites twice, seeing a total of 174 satellites signals (3x more than competitor products). This delivers more accurate, faster readings even in high density urban cities and crowded towers.



Built-In Camera

Line-of-Sight Survey with Every Alignment

The Only Antenna Alignment Tool with Camera in the Market

For the first time, an antenna alignment tool not only aligns the antenna, but also provides a visual guide to show where the antenna is pointing. The line-of-sight image gives you greater clarity and simplifies the alignment process.

The world around your antennas is constantly changing, and RF Vision allows you to capture these changes. New building constructions, growing tree lines, etc. will degrade your coverage objectives and create unhappy customers. Only RF Vision will allow you to see these obstructions and give engineers the ability to optimize antenna orientations.

Now you can see your antenna coverage!



Easy-to-Use Antenna Alignment Tool



Camera & Touch Screen View Finder

RF Vision's augmented reality displays a bullseye target in the 5-inch LCD touch screen display. Now the tower tech can perfectly align the antenna by simply moving the crosshair over to align the bullseye in one easy step.

The touch screen display is responsive to touch in most work gloves, letting you keep your hands warm and protected in cold conditions.

Secure Report Generator

No post processing required! RF Vision will create a single comprehensive PDF or CSV report for each site being aligned. Retrieve reports easily via the built-in micro USB port or send it in real time using our mobile app.

Your report includes the target coordinates and the final measured alignment data, site sector identifiers, geocoding, geolocation, date and time stamp, and a line-of-sight photo validation.



Designed with the User in Mind

- Protected with rubber guard and rugged design
- Small design for increased portability
- Sunlight-readable screen
- Weather and impact resistant



What Comes with your Kit?

Everything you need to get started.

- RF Vision Antenna Alignment Tool
- Universal Strap Clamp
- Rugged hard-case with padded interior
- Water resistant soft-case bag
- Rubber bumpers for microwave antennas
- AC/DC power charger and universal power adaptors



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ALIGN WITH PRECISION



Headquarters

3150 SW 145th Ave. Suite 300.
Miramar, FL ,33027, U.S.A.
www.3ztelecom.com

+1.954.582.6565
sales@3ztelecom.com

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30190831 900 0819
rfvision-br-nsd-nse-ae