

CONNECTING *the world around us*

Tools and Testing for 4G and 5G Wireless Networks

CELLULAR - WIFI - BROADBAND - SATELLITE



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SPECTRUM ANALYZERS

AIRSCOUT SPECTRUM

The **AirScout Spectrum** product line provides fast, accurate RF spectrum analysis at an affordable cost. AirScout Spectrum is designed specifically for field use making it easy to see downlink or uplink RF transmission quickly and easily. Whatever band you are working with, we have the right frequency ranges to suit your application.

FEATURES OF AIRSCOUT SPECTRUM INCLUDE:

- **Wide Frequency Range Support:** Frequency models: 0.3 to 3 GHz, 2 to 8 GHz, and 24 to 40 GHz
- **Accurate:** RF accuracy to +/- 1 dBm
- **Versatile:** Multiple RBW and VBW Setting
- **Easy to Use:** Intuitive “one hand” operation
- **Fast:** Industry leading 0.5 second boot up
- **Uses:** RF baselining, transmission/receive power, interference hunting, antenna alignment and more



5G DRIVE/WALK PERFORMANCE TESTING

AIRSCOUT MOBILITY

AirScout Mobility tests network performance of WiFi and cellular networks, including 3G, 4G, 5G, P25, and TETRA. Featuring industry-only cloud architecture, AirScout Mobility allows users to share licenses, remote control testing, and automate reporting. This also allows users to use standard off-the-shelf phones as opposed to proprietary hardware, extending the costs savings even further.

FEATURES OF AIRSCOUT MOBILITY INCLUDE:

- **Fast, automated drive/walk performance testing** of cellular, public safety and WiFi networks
 - 3G/4G/5G, TETRA, P25, WiFi
- **Cost Effective:** One license can be used across multiple phone, users and technologies
- **Easy to Use:** Tests are pre-set in the cloud, so users only need to utilize the “one button” testing function to run the test
- **Convenient:** All testing can be remote controlled, freeing engineers from having to travel to multiple sites
- **Automated:** Test results are generated and published to the cloud automatically, saving hours of report creation
- **Flexible testing:** Tests can be locked to a system, band or PCI so users can specifically test a particular transmitter/receiver
- **Cost Effective:** Cloud based licensing allows one license to float across multiple phones and technologies, increasing usage per license purchased



WIRELESS PRODUCTS



WIFI COVERAGE SOLUTIONS

AIRSCOUT RESIDENTIAL WIFI TESTER WITH LIVEPRO

The **AirScout® Residential Wi-Fi® Tester** helps technicians identify the optimum location and settings for the access point of a Wi-Fi broadband router within a home or small business. Service providers have found that simply looking at signal strength measurements and using a single instrument is not a true measure of the Wi-Fi user experience. **LivePro** features allow engineering grade troubleshooting helping to reduce customer service calls and truck rolls.



FEATURES INCLUDE:

- The AirScout Client devices are placed around the building that you want to "survey" for Wi-Fi coverage (up to 8 for large areas)
- AirTime Analysis
- Spectrum Analysis
- Real-Time Congestion, Interference and Utilization Depiction
- 802.15.4 Optimization
- Reporting and Cloud Access



AIRSCOUT GIGACHECK

As the demand for faster networks grows, service providers must ensure their customers receive the speeds they pay for, but struggle to easily verify the service level agreements.

The **AirScout® GigaCheck** offers service providers a quick and easy way to help validate their SLAs and meet customer expectations.

FEATURES INCLUDE:

- "Headless" Unit is Fully Integrated with Smartphone App (Android)
- Report Generation and Cloud Access
- Easy to Read Pass/Fail Indicators
- Powered by Industry Standard Speedtest® by Ookla®
- Rechargeable Li-Ion Battery
- Includes universal AC to USB PSU and USB charging lead



MACROCELL 3D IMAGING FOR INSPECTION AND PIM ANALYSIS

OPTELOS SOFTWARE

The **Optelos software** platform creates a detailed 3D digital model for actual drone picture data and stores it in a full featured asset management platform. This allows users to visually inspect their macro cell to predetermine if there are any problems before sending up a tower crew. The 3D image can be linked to asset documents such as equipment specification, design specifications, and historical environment photos.



FEATURES INCLUDE:

- **Digital Twin:** Automatically create a full 3D digital model of any macro cell or rooftop location from drone data
- **Accurate:** Visually inspect the site for any anomalies or damage down to 1 cm resolution
- **Inspect:** Measure dimensions directly from the software, including angles for antenna alignment
- **Convenient:** Link specification of equipment or tower design directly to the digital image

PERSONAL RF SAFETY

WAVEMON

Wavemon personal RF Safety Monitors alert radio equipment contractors of dangerous RF exposure levels. It measures RF emissions up to 60 GHz and provides visual and audible alarms when safe levels are exceeded. The tool is accurate to any global standard, and uses an isotropic antenna for 360 degree measurements.

FEATURES INCLUDE:

- 8 GHz and 60 GHz models
- Accurate EMF measurements to +/- 3 xxx
- Response shapes to EU EMF, SC6, FCC and ICNIRP
- ITU-T K.145 standard compliant
- Isotropic antenna
- Records GPS and Altimeter readings
- PC software allows review of test offline
- 30 kV/m low frequency immunity



TEMPO
COMMUNICATIONS