

BRIDGING THE VISIBILITY GAP FOR IN-BUILDING DAS & SMALL CELL SYSTEMS



The Race to Offload Data Traffic

Mobile operators facing massive explosion in bandwidth intensive applications and smart device proliferation are deploying DAS, Small cell and Wi-Fi networks to offload data traffic from the macro cell network.

80% of worldwide mobile data traffic is inside a building – while the current coverage scenario is in favor of macro cell network deployments.

The Visibility Gap

Use of professional measurement tools, such as spectrum analyzers are standard practice to ensure successful installation and ongoing maintenance and troubleshooting.

Current Spectrum Analyzers are:

- Bulky
- Expensive
- Difficult to Use

Leading many organizations to share spectrum analyzers across projects and work groups which causes:

- Batched Testing vs. Testing at Every Stage
- Delayed Identification of Problems
- Costly Rework

A different approach is needed - an RF spectrum analyzer that is designed around in-field testing features necessary for efficient multi-team installation/troubleshooting projects at the customer site, including:

- Professional-grade capabilities
- Simplified Visualization
- Productivity Efficiencies
- Portability
- Affordability



AIRMAGNET SPECTRUM ES™

AirMagnet Spectrum ES is a portable and affordable, professional-grade RF spectrum analyzer that speeds in-building cellular deployments with enhanced in-field productivity features and next generation visualization.

Spectrum Analysis Basics

- Scan frequencies between 698 MHz & 2690 MHz. This includes support for 2G/3G/4G (GSM/UMTS/LTE/PCS/AWS/SMR900/CDMA)
- Core Spectrum Graphs
 - FFT Graph
 - Spectrogram Graph
 - Spectrum Density Graph
 - Frequency Duty Cycle Graph
- Capture, Save & Share Spectrum Trace files for escalations & retaining as forensic evidence.
- Verify Antenna Performance using the Power Meter Tool

Enhanced Productivity Features

- **Location:** specific automated carrier and technology look-up in 3 easy steps
- **Interference Intelligence:** detect, identify & locate any RF interference source
- **Carrier & Technology Overlays on FFT Graph:** Accurate and quick visualization of information with Carrier & Technology overlays on the FFT graph
- **Data/Voice Events:** Instant detection of voice/data events (LTE, CDMA, WCDMA & GSM) to determine utilization of the bands

Portability for Rapid Deployment

- USB based spectrum adapter that can be used on any Windows based laptop or tablet
- Affordability allows broad deployment across the organization to ensure point-of-use availability

Zero-Day Interference Intelligence



Detect, Identify & Locate any RF interference source

Frequency Scan setup in 3 easy



Location-specific automated carrier and technology

Band & Carrier FFT Overlay



Accurate and quick visualization of information with Technology & Carrier overlays on FFT graph

Performance. Portability. Usability.

