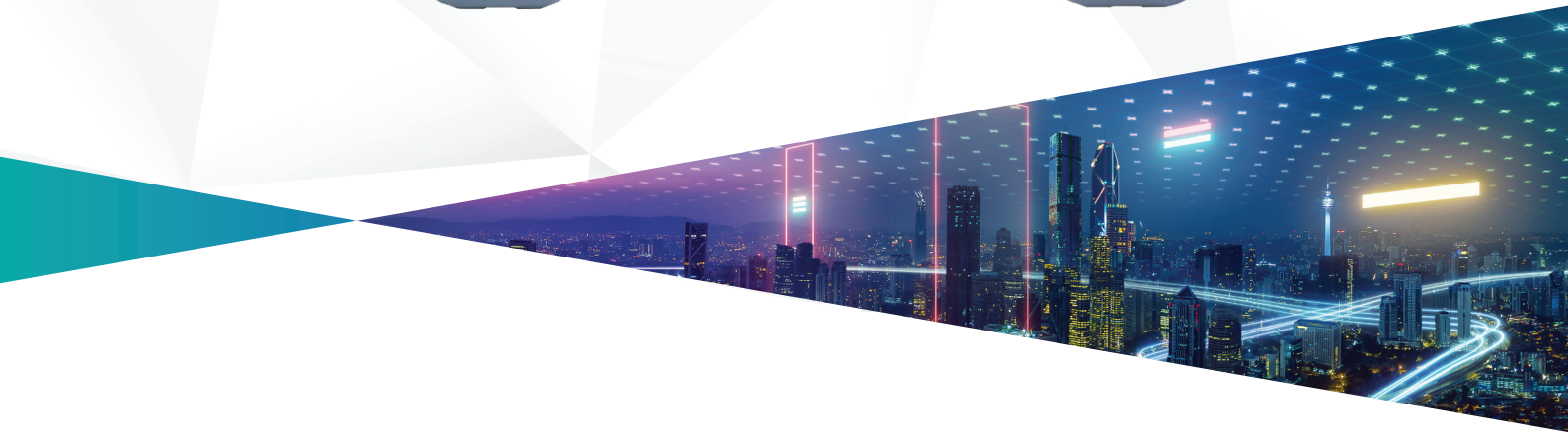
Brochure

ONEADVISOR 800 WIRELESS

RF Viewer

RF Augmented Reality



ONEADVISOR 800 RF VIEWER

The OneAdvisor 800 RF Viewer is an augmented reality (AR) solution designed to provide intuitive, real-time visibility of radio frequency (RF) signals within a physical environment. By overlaying RF signal strength data directly onto a live video feed, RF Viewer enables users to easily and accurately identify the location, intensity, and distribution of RF emissions.

OneAdvisor 800 RF Viewer

This visual representation of the RF environment simplifies troubleshooting, accelerates diagnostics, and enhances situational awareness for field technicians, engineers, and network planners, ultimately improving operational efficiency and network performance.

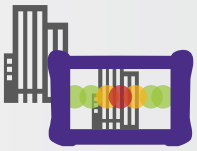
The OneAdvisor 800 RF Viewer provides an intuitive and effective approach to detect RF emissions, for cases such as RF interference finding, which can be set into different tracking modes based on the interferer profile, including:

Tracking Mode	Interferer Profile	Cases
RSSI (Received Signal Strength Indicator)	Constant presence in a narrow frequency band (e.g., < 2 MHz)	Persistent, localized sources like faulty transmitter or a continuous signal leak.
Peak Power	Fluctuates within a defined band (e.g., ≥ 2 MHz)	Intermittent or hopping signals, such as those from spread-spectrum devices or burst transmissions.
Channel Power	Covers a wide frequency range (e.g., ≥ 2 MHz)	Effective for identifying wideband noise sources like power line interference, broadband jammers, or malfunctioning RF equipment.

This setup allows users to tailor RF Viewer based on the interference profile, improving accuracy and efficiency in identifying and resolving RF issues. The flexibility in switching between modes makes RF Viewer suitable for environments with diverse RF challenges, such as industrial facilities, wireless labs, or urban RF surveys.

Wireless communications using Time Division Duplex (TDD) allocate distinct time slots or symbols for downlink (radio transmission) and uplink (user device transmission). This separation introduces challenges in detecting and analyzing interference during uplink periods. To address this, the OneAdvisor 800 is equipped with advanced features such as Gated Sweep Spectrum and TDD Auto-Gated Spectrum (TAGS) with RF Viewer. These test functions enable precise isolation of specific time intervals, making them among the most effective methodologies for identifying interference in TDD-based systems.

RF Viewer Features and Benefits

RF Viewer	Key Features	Key Benefits
	Real-time RF visualization with augmented reality to Instantly locate the source, strength, and spread of RF emissions with unmatched clarity.	Empowers your team with intuitive, on-the-spot insights that reduce guesswork, save time, and improved reporting.
	Perform interference analysis on three tracking modes (RSSI, Peak, Channel Power) based on the interferer profile.	Significantly reduces test time, effectively detecting and locating any type of interference.
	Advanced interference analysis in TDD communication systems with Gated Sweep Spectrum or TDD Auto-Gated Spectrum.	Simplifies interference analysis in TDD systems by automatically detecting and measuring uplink time periods. Eliminating manual configuration and enabling faster, more accurate testing.

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