



**SUNON**  
TECHNOLOGY



# ***Advanced RF & Wireless Signal Analysis Platform***



The Advanced RF & Wireless Signal Analysis Platform is a portable and high performance solution designed to deliver real time visibility into wireless signal environments. It enables users to detect, analyze, and locate signals across a wide frequency range with accuracy and efficiency.

Built for demanding operational scenarios, the platform provides comprehensive insight into surrounding RF activity, supporting teams in identifying irregular transmissions and maintaining situational awareness. Its intuitive interface and powerful processing capabilities allow users to quickly interpret complex signal data and respond with confidence.

With an emphasis on mobility and precision, the system combines advanced analysis tools with direction finding capabilities, enabling faster localization and more effective field operations. Its integrated data management features further enhance usability by allowing users to store, review, and export results for reporting and future reference

## **Main Capabilities**

### **1. Frequency Analysis**

The platform provides real time and peak signal monitoring, along with tools to save, compare, zoom, and review signal traces for deeper insight. Targeted scanning functions enhance both speed and accuracy during signal analysis.

### **2. Wireless & Network Monitoring**

The system supports Wi-Fi analysis across 2.4 GHz and 5 GHz bands, enabling identification of access points and connected devices. It also includes Bluetooth Classic and BLE detection with manufacturer identification, as well as cellular monitoring (GSM and 4G/LTE) using passive detection methods.

### **3. Direction Finding**

An integrated compass based system enables signal direction detection by combining signal strength and proximity data, allowing users to locate signal sources more efficiently.

### **4. Radio Signal Analysis**

The platform supports both analog and digital radio signals and can identify commonly used formats such as DMR, NXDN, P25, and D-STAR.

### **5. Data & Reporting**

The system automatically stores session data locally and allows users to export reports and screenshots in CSV format via USB. It also enables quick recall of previous scans to support faster and more efficient operations.

## **Use Cases**

- ▶ Corporate and critical infrastructure protection
- ▶ RF environment assessment and troubleshooting

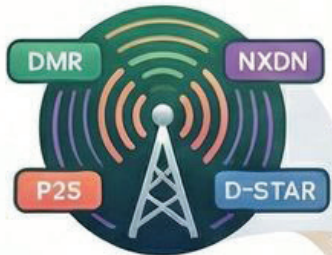
# The Advanced RF & Wireless Analysis Platform

## Signal Monitoring & Identification



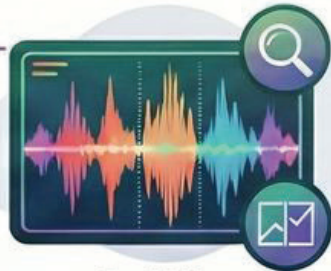
### Multi-Protocol Wireless Detection

Monitors Wi-Fi, Bluetooth, and cellular networks (GSM/4G/LTE) using passive detection methods.



### Digital & Analogue Radio Analysis

Automatically identifies common radio formats including DMR, NXDN, P25, and D-STAR.



### Real-Time Frequency Analysis

Features live signal monitoring with tools to zoom, compare, and review signal traces.

## Operational Intelligence & Localisation



### Integrated Direction Finding

Uses a compass-based system to locate signal sources by combining strength and proximity.



### Automated Data Management

Stores session data locally for quick recall and CSV report export via USB.

