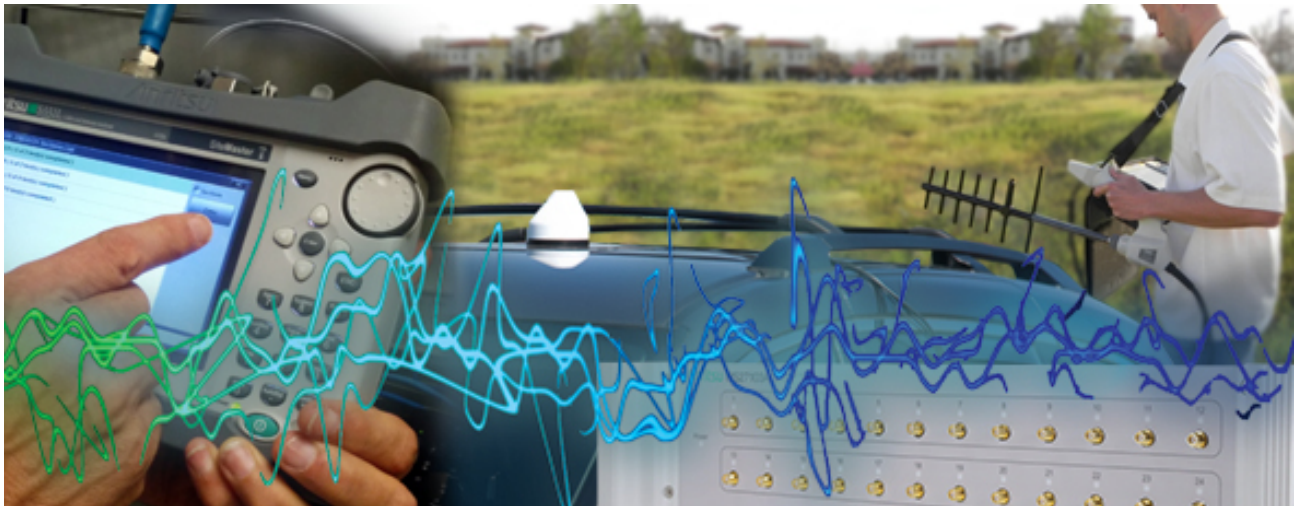


## Interference Hunting



Interference hunting requires the ability to spot, find and fix a known interferer which is not always an easy task. Not only having the right tools, but the ability to properly identify the issue is key to interference hunting. As strange as it may sound, the first step to solving an interference issue is actually determining that there really is interference. Sometimes there are other issues at play that cause a communications system to work less than optimally but don't actually involve an outside signal

### What is Interference?

Interference is any unwanted signal that makes a radio receiver's job harder such as illegal transmissions, unlocked and drifting transmissions, noise from leaky cable TV feeds, unsuppressed EMI from power tools or microwave ovens, local high power radios and even multi-path from nearby buildings and hills. Interference from both illegal and unintentional signals is a significant problem for mobile service providers, security services and government regulators. Interference will degrade network performance, causing critical communications to be interrupted.

### Types of Interferers Found

- Illegal transmissions
- Unlocked or drifting radios
- Low power
- Narrowband, wideband
- Damaged or leaking RF cables
- Modulated
- Pulsed signals (similar to radar)
- Signals hidden in LTE uplink channels
- "Pirate" TV/radio stations and BTS cellular equipment operating illegally

## Products



**MA2700A**

Handheld Interference Hunter  
10 MHz - 6 GHz GPS receiver position uncertainty  $\pm$  2 meters, typ.



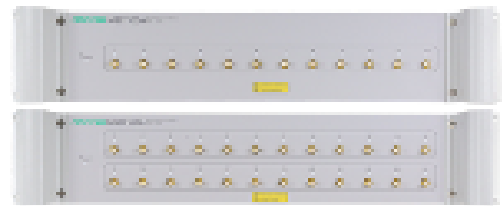
**MS27101A**

Remote Spectrum Monitor  
Half-Rack Size Enclosure  
For cellular, DAS, other applications



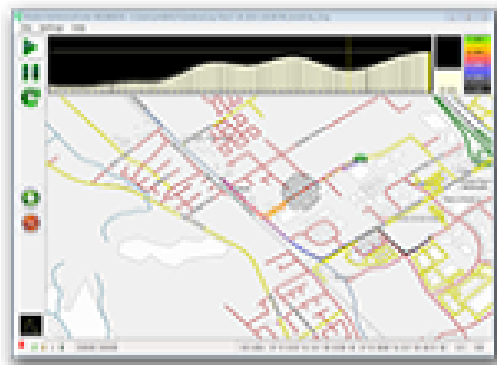
**MS27102A**

Remote Spectrum Monitor  
9 kHz to 6 GHz  
IP67 rated for outdoor deployment



**MS27103A**

Remote Spectrum Monitor  
12 RF input ports (optional 24 port)  
Measure multiple sectors & carriers



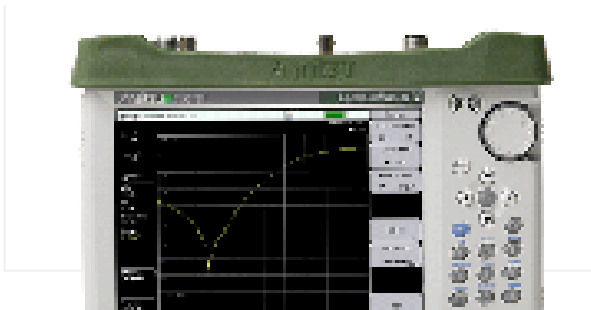
**MX280007A**

Mobile Interference Hunting System  
9 kHz - 43 GHz frequency  
Set up in less than 5 minutes



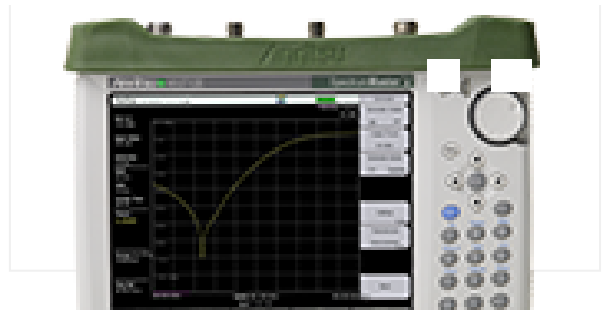
**MS2720T**

Handheld Spectrum Analyzer  
9 kHz - 9 GHz, 13 GHz, 20 GHz,  
32 GHz, 43 GHz frequency



**MS2713E**

Handheld Spectrum Analyzer  
9 kHz - 6 GHz frequency  
1 Hz - 3 MHz resolution bandwidth



**MT8220T**

Base Station Analyzer  
400 MHz - 6 GHz VNA frequency  
150 kHz - 7.1 GHz SPA frequency



**MT8212E**

Base Station Analyzer  
2 MHz - 4 GHz VNA frequency  
100 kHz - 4 GHz SPA frequency



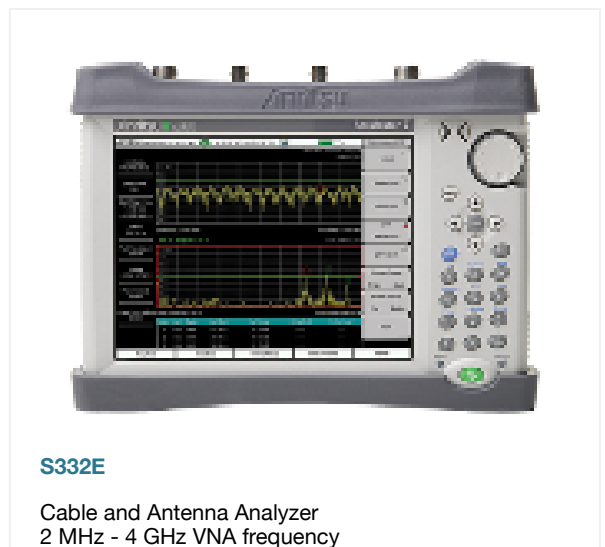
**MT8213E**

Base Station Analyzer  
2 MHz - 6 GHz VNA frequency  
100 kHz - 6 GHz SPA frequency



**S412E**

Land Mobile Radio  
500 kHz - 1.6 GHz VNA frequency



**S332E**

Cable and Antenna Analyzer  
2 MHz - 4 GHz VNA frequency



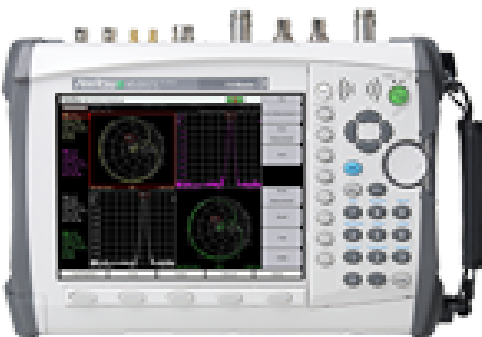
**S362E**

Cable and Antenna Analyzer  
 2 MHz - 6 GHz VNA frequency  
 100 kHz - 6 GHz SPA frequency



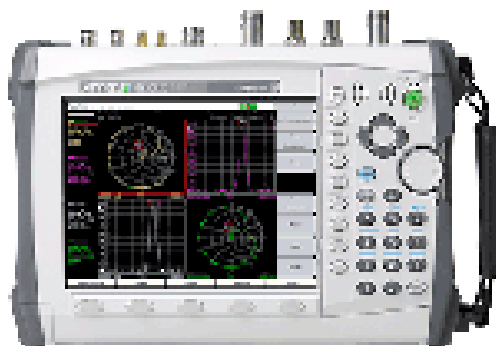
**MS2036C**

Handheld Vector Network Analyzer  
 5 kHz - 6 GHz VNA frequency  
 9 kHz - 9 GHz SPA frequency



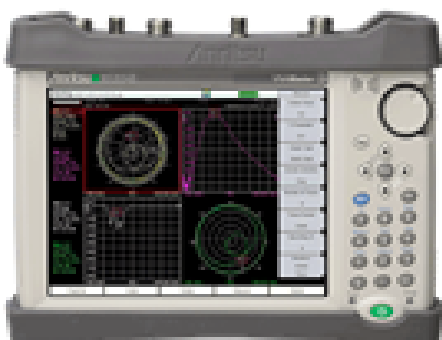
**MS2037C**

Handheld Vector Network Analyzer  
 5 kHz - 15 GHz VNA frequency  
 9 kHz - 15 GHz SPA frequency



**MS2038C**

Handheld Vector Network Analyzer  
 5 kHz - 20 GHz VNA frequency  
 9 kHz - 20 GHz SPA frequency



**MS2034B**

Handheld Vector Network Analyzer  
 500 kHz - 4 GHz VNA frequency  
 9 kHz - 4 GHz SPA frequency



**MS2035B**

Handheld Vector Network Analyzer  
 500 kHz - 6 GHz VNA frequency  
 9 kHz - 6 GHz SPA frequency