



Applications for Counter Surveillance Receiver RAPTOR RXi



» The new RAPTOR RXi scans 26GHz in less than 4 seconds for quickly detecting transmitting electronic surveillance devices. The RAPTOR RXi is a sophisticated counter surveillance receiver, which convinces by its performance and mobility.

The 15" high resolution touch screen display allows clear reading and comfortable working conditions and puts "zoom", "pan", "drag" and "move" controls at your finger tips. Featuring a fast Core 2 Duo processor, its multiple software tools and demodulators detect frequency-hopping, burst mode and spread spectrum devices as well as analogue audio and video signals.

Key Applications

- » Government sweep teams for internal and external security
- » Radio monitoring by regulatory government authorities
- » RF environment monitoring and interference management
- » Monitoring all incoming and outgoing signals from military bases
- » Professional sweep teams (TSCM)

Technical Surveillance Counter Measures (TSCM)

Radio transmitting devices are probably the most popular types of eavesdropping device. They are readily available, relatively cheap, and widely advertised.

The RAPTOR RXi is designed as a portable device, allowing reference scans to be easily run in different areas of a building. The system quickly identifies localized RF transmissions of all types of modulation. Using the most up to date equipment is critical for any TSCM operator. The RAPTOR RXi provides you with reassurance that your critical information is protected from unauthorized surveillance.

Radio monitoring by regulatory government authorities

With the ever increasing demand for radio based services, monitoring of the radio spectrum plays a vital role today in keeping the spectrum clean for authorized users, particularly the emergency services. It is also an essential and integral part of the spectrum management process, producing and evaluating data to aid spectrum managers in their day to day work.

The RAPTOR RXi is a bench-top spectrum analyzer with useful tools such as the signal logging facility which saves spectrum analyzer 'snapshots' of brief or intermittent signals for later analysis.

RAPTOR RXi Advantages

- Scans 26GHz in less than 4 seconds ensuring spectrum activity is captured (approximately 100,000,000 samples per second).
- Built-in auto switching antenna system to 26 GHz means no additional antennas or cables are required.
- High resolution 15" colour touch screen allows clear reading and comfortable working conditions with pan, zoom, drag & move controls.
- Two spectrum analyzer windows allow the user to simultaneously view the whole spectrum and zoom in on individual frequencies.
- Waterfall display mode gives an intuitive display of signals over time.
- Dedicated ultra wideband (UWB) receiver detects signals impossible to find with conventional receiver.
- Displays spectrum as a list or graphically. Facility to compare lists or graphs sampled in different locations (including differences) for rapid analysis.
- Remote operation by means of Ethernet, plus signal logging facility saves spectrum analyzer 'snapshot' of brief signals.

RF environment monitoring and interference management

Monitor RF bands to determine compliance with local laws and regulations. Monitor assigned frequencies to look for interfering signals or to determine if your transmitters are working properly. Look for RF sources that might be causing out of band interference to other equipment such as medical or air traffic control. The RAPTOR RXi provides specific frequency management and can be left running 24hrs a day or during unmanned office hours.

Technology

The receiver uses an analogue front end, combined with software filtering and demodulation to provide the best combination of fast scan speed and receiver performance.

The user interface has been carefully designed to be simple and intuitive; the spectrum analyzer display shows the entire spectrum in one graphical window with the facility to zoom in on areas of interest. A separate zoom window allows the user to simultaneously look at areas of the spectrum in high-resolution mode. Displays spectrum as a list or graphically. Facility to compare lists or graphs sampled in different locations, plus allows user to zoom over the spectrum without any interruption at even 20MHz.

Accy case includes
Directional Log
Periodic Probe
Antenna, Tone
Box, Spare
Li-ion Battery
& Smart
Battery
Charger



Directional Log Periodic Probe Antenna for locating digital transmissions

The RAPTOR RXi can be controlled and monitored over an internet connection.



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