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WG S RF Detector

The WG S RF Detector can be used to detect and locate a wide variety of radio transmitters used for covert access to audio and video information.

Its scanning and analysing cycle period is 1.0 – 1.5 sec, operating in monitoring, sweep, and search modes for digital signals.

The filtration of short-term noise requires at least two scanning cycles, so the signal is detected in 2-3 seconds.

Soundless alarm indication in vibration mode and the absence of external antenna helps the device to attract little attention.

Its detector is a super heterodyne receiver with low IF and frequency synthesiser, providing continuous scanning of frequency range and analysis of spectrogram peaks.

Standard digital signals are identified by their amplitude-time characteristic.

Any continuous radio signal with the amplitude modulation index ≤0.5 without frequency hopping is treated as an analog signal.

It will detect analog signals AM, FM, PM modulation and digital signals of FSK, PSK and the like modulations.

SPECIFICATIONS

- Frequency band: 40-3800 MHz
- Typical sensitivity: 70 mV/m
- Dynamic range: 50 dB
- Bandwidth: 10 MHz
- Period of full scanning cycle: ≥ 1.5 s
- Running in guard mode: 4-12 h
- Running time in other modes: 3 h
- OLED display: 128 x 64
- Dimensions: 77 x 43 x 18 mm
- Weight: 35g

DETECTION

- Cell phones of GSM 850/900E/1800/1900, UMTS 850/900/1800/1900/2100, CDMA 450 (A-H)/800/1900 standards
- Cordless DECT phones
- Bluetooth and wi-fi devices
- Wireless video cameras
- Radio transmitters with analog modulation (AM,FM,PM)
- Radio transmitters with wideband modulation up to 10MHz bandwidth
- Wireless microphones with analog, digital and broadband modulation

SPECIAL FEATURES

- Signal detection against the background and interference
- High speed of scanning and analysing
- Detection of digital, analog and wideband signals
- Adaption to the background noise in monitoring mode
- Difference search mode
- Audio monitoring through the built-in speaker
- Signal frequency and level measurement
- Alarm events log
- Silent alert signal (vibration mode)
- No need for external antenna
- Interface languages: English, German, Spanish, French, Italian, Russian