

RAKSA iDet

Selective RF Detector

We are happy to present you a unique device which can be used to detect and locate in the near field a wide variety of radio transmitters used for secret access to information.



Opportunities and advantages

RAKSA iDet Selective RF Detector is remarkable for its small dimensions (77x43x18). Scanning and analyzing cycle period is 1.0-1.5 sec. RAKSA iDet can operate within monitoring, sweep, search, difference search modes and monitoring of digital signals. Soundless alarm indication (vibration mode) and absence of external antenna helps the device to attract little attention.

Application

RAKSA field detector is designed to detect near-field location of radio transmitting equipment used for secret retrieval of audio and video information. Among them:

- 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 digital modulation and continuous carrier (FSK, PSK, etc.)
- Radio transmitters with wideband modulation up to 10MHz bandwidth
- Wireless microphones with analog, digital and broadband modulation

Technical characteristics:

Frequency band:	40-3800 MHz	Running time in guard mode:	4-12 h
Typical sensitivity:	70 mV/m	Running time in other modes:	3 h
Dynamic range:	50 dB	OLED display:	128x64
Bandwidth:	10 MHz	Dimensions:	77x43x18 mm
Period of full scanning cycle:	≤1.5 s	Weight:	35 g



RAKSA iDet Selective RF Detector is a superheterodyne receiver with low IF and frequency synthesizer. It provides continuous scanning of frequency range and analysis of spectrogram peaks. The standard digital signals are identified by their amplitude-time characteristic.

Scanning and analyzing cycle period is 1.0-1.5 sec. Filtration of short-term noise requires at least two scanning cycles, so the signal is detected in 2-3 seconds.

Any continuous radio signal with the amplitude modulation index ≤ 0.5 without frequency hopping is treated as an analog signal. Such are the analog signals of AM, FM, PM modulation and digital signals of FSK, PSK and the like modulations.

Special features:

- Signal detection against the background interference;
- High speed of scanning and analyzing;
- Detection of digital, analog and wideband signals;
- Adaptation 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.

