

ELECTRONIC COUNTER MEASURES

RFD-22

RADIO FREQUENCY DETECTOR

RFD-22 is a highly sensitive wide-band radio frequency detector with large dynamic range and enormous frequency range.

RFD-22 functionality is optimized for professional detection and localization of radio listening devices.

Current radio-electronics offers a number of eavesdropping systems which cannot be detected before their operative activation. There are two basic solutions how to detect such systems: permanent protection or operative electronic sweeping. RFD-22 supports both solutions: it can be used as a permanent detector to discover changes in the radio spectrum as well as a classical wide-band detector for operative sweeping.

The main advantage of RFD-22 is a very simple and unambiguous usage which allows even a non-specialist to detect any active radio bug. High sensitivity, electronic stability and large frequency range allow detection of even the most dangerous eavesdropping systems like spread spectrum, digital RF systems, modified mobile phones, extremely high frequencies etc.

The RFD-22 front panel is optimized for usage by non-specialists, since it contains only a few most important adjusting elements. If the user is following a suggested procedure, it is almost impossible not to detect a bug due to a wrong adjustment of the device.

In the MEASURE mode the LED displays instant level of the radio field and the Geiger click indication makes the hidden bug localization easier. The earphone audio output allows acoustic separation of broadcast, TV or other legal transmissions from a bug signal.

The PROTECT mode is designed for permanent protection and for detection of digital pulse devices. Even the shortest radio pulse is displayed, indicated by a warning beep and its peak level is written to the peak signal memory.



RFD-22 is light compact device built in a mechanically robust metal box. Its main features are:

- High sensitivity and dynamic range
- High frequency range, detection up to 20GHz
- Short pulse detection, peak level memory
- High detection stability, automatic zero adjustment
- Audio signal demodulation
- Geiger click indication
- Detecting all radio devices including digital encoded
- Detecting spread spectrum, hopping and pulse transmissions
- Detecting manipulated mobile phones and computers
- Permanent protection
- RF background elimination, detection of signal increase
- Possibility to calculate bug radiated power and distance
- Low power consumption, long battery life

RFD-22 Technical Specification

- Frequency range: 0.5MHz to 20GHz
- Typical sensitivity: 0.08uW ERP (400MHz / 5cm / level=3)
- Dynamic range: 43dB
- Detectable pulse width: >80us
- Geiger click indication: internal buzzer
- LED indicator: 2 characters
- Instant signal strength indication: numerical 127 levels
- Peak level indication: numerical 127 levels
- Alarm memory: peak signal record
- Built in telescope antenna: adjustable 1 to 38cm
- Earphone: stereo type 8 - 32ohm
- Battery low indication: below 7.2V
- External power supply: 12V-20V DC unstabilized
- Accumulator recharge circuit: optimized for NiCd
- Battery: 9V model 6F22 or 9V accumulator
- Current consumption: 8 to 10mA
- Mechanical size: 150 x 58 x 29mm
- Weight: 245g