

Bahia Europe

RFD-23

NON LINEAR JUNCTION DETECTOR

APPLICATIONS

The **RFD-23** Hand Held Non-Linear Junction Detector (NLJD) is designed for the search, the detection and the localization of devices containing electronic components, such as:

- electronic fuzes or remote control of explosive devices,
- concealed surveillance devices
 (listening and recording devices, transceiver and receivers...)
- Video and Infrared detectors.

The RFD-23 detects electronic devices regardless of wether they are powered or not".



The receivers are tuned to the double and triple frequency of the transmitter signal.

The transmitter searching signals cause non-linear (semi conductor) elements of an electronic device to generate signals which are the 2d and 3rd harmonics of the original signal. The signals of the harmonic are re emitted, registered by receivers and evidenced by visible and audible alarms.

A special identification mode allows the operator to distinguish between signals reflected from semiconductor radio electronic devices and signals from natural non linear reflectors. The ratio of the 2d and 3d harmonic signals is also useful for false alarms elimination.

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RFD-23 300505

ADVANTAGES

High precision of localization,
Searching signal power amplifier,
Reliable search in hollow parts of building structures,
Simultaneous receiving at both 2d and 3d harmonics,
Special identification mode,
Search in hard to reach cavities.

TRANSCEIVER SPECIFICATIONS

Emitted signal frequency 860 ± 10 MHz
Emitted signal power (average) less than 90 mW

2580±30MHz

RF pulse repetition frequency

in "search" mode in "identification" mode

RF pulse duration

in "search" mode $2 \pm 0.2 \, \mu s$ in "identification" mode $2 \pm 0.2 \, \mu s$

Receiver sensitivity, S/N = 10 Db \leq -115 Receiver dynamic range \geq 30 db

Receiver sensitivity is adjusted manually in five steps of 10 ± 2 db each.

MAIN FEATURES

Power supply
Power consumption, no more than
5 VA
Time of continuous operation
4 hours
Alarm signals
Visible (LCD) audible (earphones)
Transceiver weight
3 Kg
Weight of complete set
7 Kg
Operating temperatures
0 to + 40 °C

300 ± 10 Hz 6000 ± 100 Hz