

CST-4

COUNTER SURVEILLANCE

TOOLKIT



CST-4 multipurpose detection set is designed for identification and localisation of radio transmitters, telephone, mains and microphone listening devices. All elements of the set fulfil the professional requirements and the metal casing ensures high degree of mechanical resistance. All components of the set are placed in a light and easy to use suitcase. Each device has a slot in a plastic inset and there is an additional space for documents and tools in a cover of the suitcase. The **CST-4** consists of the RD10 radio frequency detector, a telescope antenna, an external probe, dynamic earphones, the WHG wide-band generator, two wire antennas for the WHG and the line and telephone adapter

SET CONTAINS

- Near Field Radio Frequency Detector: ACU-RD10, 0.3MHz - 25GHz
- External probe: 2.4m folding laminate bar telescope Antenna (0.1MHz - 20GHz)
- Mains Line and telephone adapter: 100Hz - 0.5MHz, sensitivity 0.3 - 7mV eff
- WHG (White Noise Generator) for localization of hidden wires: special spectrum 8Vp-p, 1kHz modulation
- Soft case size 450 X 320 X 110mm

DESCRIPTION

RD10 is a **Multipurpose Sensitive Near-field Broadband Radio Frequency Detector** namely suited for basic service in electronic counter-measures. Simple attendance and optimised user parameters makes the RD10 detector very useful for all people handling with confidential information. Every day portable usage is one of the best preferred features of RD10. The main function of the detector is identification and localisation of active wireless bug transmitters. Special compensated detection system gives the user instant information about real RF field intensity and together with attached graph the distance of 0.1 to 10 mW bug can be estimated. The unique advantage of RD10 software is detection and localisation of technologically most dangerous digital and pulse bug transmitters. The unit also allows permanent room protection, connection of external probe or line adapter supplied.

WHG is a wide band **Multi-Signal internally FM and AM Modulated Power Generator** which together with an appropriate antenna activates hidden wires and makes them visible for RD10 detector. The function is based on the antenna principle it means that no non-linear elements are required for a positive response. The result is that any wire leading in or out from the inspected area (room) can be discovered.

Mains Line and telephone adapter can be connected to the EXT.PROBE input of the RD10 receiver. In AUDIO mode the telephone and other suspected wires could be checked for presence of any audio signal to detect connected loudspeakers, modified telephones, microphones etc. The low frequency detection mode allows performing a spectrum analysis and detection of various devices using LF and RF spectrum from 18kHz to 41MHz. The adaptor is supplied with the connection board with two parallel connected RJ plugs and outputs for connection of the Adaptor input. The connection board allows operative check of standard telephone lines. An additional High Voltage adaptor provides the required connections to the power lines.

RD10 RF RECEIVER	(Nearfield Broadband RF Detector)
Sensitivity:	0.06 uW at 500 MHz: 10 cm
Frequency range:	0.3 MHz to 25 GHz
External probe	10 MHz to 20 GHz
Pulse memory:	-maximum level, 16 events
Variable tone for transmitter localization	(Geiger Type Localisation Detection)



WHG WHITE NOISE GENERATOR	(Random Thermal Principle)
Type:	multi-signal, AM/FM modulated wide band generator
Audio modulation:	1 kHz
Output voltage:	8 V p-p
Power:	9 V, 2 x battery IEC 3R12 or equivalent
Current consumption:	29 mA
Low voltage indicator:	indicates drop below 7 V
	(Special test tone for activation of voice controlled devices)

LINE AND TELEPHONE TESTER	(with Voltage Isolator & Line Adaptors)
Audio sensitivity	0,1 mV 300Hz to 3 kHz
RF frequency range:	8 sections, 18kHz - 41MHz
Gain control:	min. 30dB
Input insulation	Ground (green) 100N 275V AC. Active (red) 5N 440V AC
Input impedance:	100 Kohm
RF demodulation:	AM, FM
Current consumption:	14 hours, 12V DC , 9V (6F22) or 9V rechargeable
Size & Weight:	112 x 92 x 48mm . 280g

