ST 500 "PIRANHA"

Portable new generation multifunctional detection device ST 500 "PIRANHA" is intended for the detection and location of eavesdropping devices. Functionally, which transmit information using radio channel, wires and infrared channel.

Functionally the device consists of four detection channels:

1. SELECTIVE HF DETECTOR - detection of analog and digital wireless (utilizing GSM, LTE, Bluetooth, or WiFi) eavesdropping devices operating in the frequency range 20 - 6000 MHz.
2. IR DETECTOR - detection of IR transmitters (eavesdropping devices using the infrared range for transmissions).
3. WIRED RECEIVER - detection of high-frequency signals from eavesdropping devices that transmit information via electric mains and low current lines in the frequency range 100 kHz – 180 MHz.
4. LOW FREQUENCY AMPLIFIER - detection of LF signals from eavesdropping devices.

Features:

- Detection and location of radio eavesdropping devices
- Identification of digital protocols of the detected radio signals: GSM, CDMA, Bluetooth, LTE, WiFi
- Identification of signals of base stations and mobile digital communication devices
- Detection and location of active wired eavesdropping devices
- Activation of wired electret microphones by applying a bias voltage to the circuit
- Detection and location of eavesdropping devices that utilize infrared transmissions

Technical specifications:

Selective HF Detector:	
Operative frequency range, MHz	20 - 6000
Passband, MHz	1 or 20
Rate of scanning, GHz/sec	18
Minimum detection level, dB	-70
IR Detector:	
Spectral range, μm	0.75…1.1
Field-of-view angle, degrees	±20
Minimum detectable power, W/Hz½	10-13
Wired Receiver:	
Operative frequency range, MHz	0.1 - 180
Whole range scanning time, sec	2
Minimum detection level, dBm	-50…-75
Low Frequency Amplifier:	
Frequency range, Hz	20 - 25000
Gain, times	1, 2, 5, 10, 20, 50, 100
ax voltage amplitude on the input, V	±60 (DC), ±1 (AC)