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THE STEALTH Navigator Pro

Limited Edition

Professional RF Audio/Video TSCM Analyzer

The Stealth Navigator Pro is the most advanced TSCM RF Analyzer for detecting and eliminating illegal Wireless Cameras and eavesdropping transmitters.
It can detect not only analog RF A/V signals but also digital signals such as CDMA, GSM, 3G, Wi-Fi and Bluetooth signals use the advanced bugs.

The Stealth Navigator Pro

Navi 2020 Plot Software

❖The appearance of product may be changed by building different configurations and options.

Main Features

- **Detecting RF Audio Signal**
  - Detects and demodulates Wide-Band RF signal and outputs it as audio signal like a FM radio.
- **Detecting RF Camera Signal**
  - Detects and demodulates Wide-Band RF video signals and displays on LCD.
- **Detecting 2G & 3G Cellular Phone/ Wi-Fi/ Bluetooth Signal**
  - Detects WCDMA (European 3G) up to 50 feet
  - CDMA (American 3G), GSM, iDEN, PHS and AMPS up to 70 feet.
- **Doppler and GPS Direction Finder**
  - Displays the direction of RF transmitter on Multi-Display (Numeric and 36 LED Pelorus).
  - Connect a external PC (laptop) via RS-232 port and display the location and draw plots on Google Earth screen to search the RF transmitter during by moving its location.
- **Easy and Convenient Detecting Function**
  - The customized probe helps to search and remove the RF bugs easily.
- **Centralized Control**

- Connect a PC to have additional control the receiver, scanner, GPS map and Direction Finder.
- It can be located in a meeting room or temporary event location and monitored at remote location via Network/Internet.

- **Custom build :** More functions can be added

SPECIFICATIONS

	Receiver	Audio Scanner	Video Scanner	Detector	GPS
Model / Spec	ICR2500	BCT15X	VX-5000 w.DVR	DX-5000	631
Frequency Range	0.01Mhz ~3300Mhz	25Mhz ~ 1300Mhz	900Mhz ~ 5.8Ghz Major Band	50Mhz ~ 6.0Ghz	L1, 1575.42Mhz 66Channels
Mode	AM,FM,WFM,LSB, USB,CW	AM,FM,WFM	NTSC,PAL,SECAM	3G(WCDMA 2100), CDMA, GSM, TDMA, iDEN, PDC, PHS, PCS, DECT	
Sensitivity	-6dBu ~ 28dBu	0.2μV - 0.6μV	-80dBm ~ -85dBm	~ -40dBm	-163dBm (Tracking)
Demodulation	Demodulation	Demodulation	Demodulation	Detect and Display	Location info
Sweeping Time	less than 7 min.	less than 5 sec. Close Call	less than 30 sec.	Less than 1sec.	
Remarks	Sweeping & Analyzing With NaviScan EX	Store detected Audio Data	Store detected Audio/Video Data Memory /8GB		Accuracy/ Less then 3m

1. HF/VHF/UHF/SHF RECEIVER (IC-R2500)

Receiving Band: Dual watch capability
Receive System: Triple Super heterodyne + Down converter

Frequency Coverage:

	Frequency coverage	Mode
	0.010–3299.999MHz*1	AM, FM, WFM
Main receiver (Guaranteed 0.495–3000MHz)		
	0.495–1300MHz*1	USB, LSB, CW
Sub-receiver	50–1300MHz*1	AM, FM, WFM

Intermediate frequencies

1st 266.70MHz
2nd 10.70MHz
3rd 450kHz (Except WFM)
Mode: WFM, FM, AM, LSB, USB, CW(LSB/USB/CW to 1300 MHz only)

- **Selectivity:**
  - ☐ WFM >230 kHz/-6 dB
  - ☐ WFM/AM >50 kHz/-6 dB (typical)
  - ☐ FM/AM >15 kHz/-6 dB
  - ☐ SSB/CW/AM/FM >6 kHz/-6 dB
  - ☐ AM/SSB/CW >2.8 kHz/-6 dB

- **Receive Sensitivity:**

Frequency (MHz)	SSB/CW (10 dB S/N)	AM (10 dB S/N)	FM (12dB SINAD)	WFM (12dB SINAD)
0.495 - 1.799	5.0 µV	25 µV	-	-
1.8 - 49.999	0.5 µV	2.5 µV	0.63 µV**	-
50 - 699.999	0.4 µV	2.0 µV	0.5 µV	1.4 µV
700 - 1300	0.5 µV	2.5 µV	0.63 µV	1.8 µV
1300 - 2299.999	-	-	5.6 µV	18 µV
2300 - 3000.000	-	-	18 µV	56 µV

❖ 28-49.999 MHz. SSB, CW BW=2.8kHz, AM BW=6.0kHz at 10dB S/N FM BW=15kHz, WFM BW=230kHz at 12dB SINAD

Memory Channels: Up to 2600 channels per file
Frequency Resolution: 10 Hz (minimum)

2. SCANNER (BCT15X)

Frequency Coverage: 25 MHz – 1300MHz
Mode: WFM, FM, AM
Receive Sensitivity: 0.2µV - 0.6µV
Signal Capture Time: Less than 10 Seconds
Tone Codes: CTCSS, DCS

3. RF Video Detection

Detect Method: Video Sweep
Scanning Time : Less than 30 Seconds
Scanning Band: 900MHz~1.2GHz, 2.4GHz, 5.8GHz - 3 bands synchronous scanning
Receive Mode: NTSC, PAL / SECAM, AUDIO

4. 2G&3G Cell Phone/ Wi-Fi/ Bluetooth Detection

- Detecting Frequency Band
  - 2G: GSM, iDEN, AMPS, PHS, PCS
  - 3G: WCDMA(European), CDMA(USA)
  - 50 MHz - 6.0 GHz
- Detecting Distance
  - WCDMA: up to 50 feet
  - CDMA, 2G: up to 70 feet
- Sensitivity adjustment
  - Insensitive with 2 way radio

5. GPS Direction Finder

- GPS Frequency: L1, 1575.42MHz
- Receive Channel: MTK 66 Channels
- Antenna: a high quality antenna included
- 3m Positional Accuracy
- Extremely high sensitivity: -163dbm

6. Centralized Control

- Connect a Lap-Top PC to have additional control the receiver, scanner, GPS map and Direction Finder.

7. General

Power: AC 80V ~ 240V, DC 12 ~ 28V (Car cigar jack),
Built-in Rechargeable Battery.
Weight: 37 LBS (17 kg)
Dimensions: Main - L 22 X W 13.81 X H 9 (inch)
DF Antenna - L 20.6 x W 16.9x 8.1 (inch)
Heavy Duty Pelican Case

❖ The Stealth Navigator Pro can be built with various options by the customer's demand.
❖ The specifications are for The Stealth Navigator Pro standard and may be changed depend on options.
❖ The specifications might be changed without notice for upgrade purpose.

Probe for searching RF transmitter

GPS Receiver for DDF2020 Software

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Optional accessory Package

1. Navi-Line 2 Pro – very-low frequency converter for checking wires (AC 220V, telephone wires, alarm wires)
2. ANT-LINE – antenna for moving away from the laptop computer in order to avoid interferences
3. IR-LINE – probe for checking the infra-red range (search of bugging devices transmitting information with the help of the IR beams). Connection to the DS-LINE.
4. MLP-LINE – probe for checking the electromagnetic range (checking items for presence of internal electronics)
5. DS-RM – external reference microphone with a 10m cable. Can be used for checking remote premises. Please note that a built-in reference microphone is already supplied with the system.
6. DS CASE PELI – carrying case with an increased reliability

NaviScan EX

New generation of the anti-bug sweeping software

NaviScan EX reveals all the possibilities of your receiver and allows you to perform sweeping procedure at a professional level

Office receiver
Controls receiver in manual mode

Signal
Graphical information: RF spectrum, oscilloscope, low-frequency spectrum

Installations
Schedule (list of tasks for automatic mode) and the threshold

Status
Data on the current mode

Panorama
Main panoramic window

Sound Recorder
Manage recordings and a database of sound files

Database
The list of signals and panoramas

Properties signal
Setting the tone and the list of events

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Editions of the software (NaviScan EX Professional is included in The Stealth Navigator Pro)

NaviScan EX Professional	Solving both searching and monitoring tasks on a professional level
NaviScan EX S-Pro	Solving both searching and monitoring tasks on a professional level plus energetic correlation

Feature	NaviScan EX Professional	NaviScan EX S-Pro
Scheduler	+	+
Watchdog timer	+	+
Kinds of executed tasks		
'Search' task: searching for listening devices in a specified frequency range, performing tests to estimate a signal's danger level, saving signals in the database (DB) and automatic sound recording on a signal's frequency	+	+
Task 'Analysis': testing signals in the DB in order to measure their danger level, automatic recording of sound from dangerous signals	+	+
Task 'Scan range': scanning of a specified frequency range with operator-determined step and modulation, saving signals in the DB. Programmable conditions of continuation and automatic recording of sound	+	+
Task 'Scan DB': scanning signals of the DB for their activity, programmable conditions of continuation and automatic recording of sound	+	+
Task 'Frequency watch': watching a frequency for activity, programmable conditions of continuation and automatic recording of sound	+	+
Search features		
Comparison od signals on external and internal antenna (energetic correlation)		+
Classification of the signals by danger level	+	+
Collecting and working with friendly signals to increase speed	+	+
Using a reference bandscope as a threshold to increase speed	+	+
Silent search in passive modes	+	+
Checking wires for the presence of acoustics in the very low frequency range of 5KHz…2MHz: AC 220V, phone lines, alarms. Checking of the infra-red range is also possible (optional probe is required)	+	+
Passive amplitude correlation	+	+
Semi-passive amplitude correlation	+	+
Active amplitude correlation	+	+
Active spectrum correlation	+	+
Active parametrical correlation	+	+
Harmonic presence test	+	+
Automatic recording of sound from dangerous signals	+	+

The appearance and specifications may be changed without any notice for the purpose of upgrade.

Automatic printing of dangerous signals	+	+
Notification to the operator about danger detection	+	+
Estimation of the bug's location in 2 dimensions and printout of the results	+	+
Monitoring features		
Programmable conditions of the scan suspension and resumption	+	+
Using a reference bandscope as a threshold to increase the scan speed	+	+
Sound recording		
Sound archive stores the frequency, modulation, date/time, duration and DTMF. Automatically erases older sound files when the allowed occupied space is exceeded. Export of sound files is possible.	+	+
Bit rate selection (9kHz, 16kHz, 22kHz, 44kHz)	+	+
Compression of sound with the help of the following codecs: MP3, ADPCM, GSM, etc. The minimum disk space required for 1 hour is 8Mb (80 Mb without compression).	+	+
Recognition of the DTMF	+	+
Activation by voice with tunable sensitivity and interval	+	+
Database		
Microsoft Access .mdb format	+	+
Export of signals to Microsoft Excel or a text file	+	+
Printout of signals and their spectrums	+	+
Support of banks and filtering by bank	+	+
Selection of the working style: "Search", "Monitoring", "Expert"	+	+

Demodulating RF Video signal

Drawing plots on Google Earth Screen

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Top view of The Stealth Navigator Pro

Remote Audio Signal Monitoring Program

Remote Video Signal Monitoring Program