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# STC Portable Spectrum Analyzer

**Multiple Receivers in One Unit**

**Remote Persistent Monitoring**

**Wireless Detection & Analysis**



**The CTL-SystemWare Travel Case (STC)** combines hardware and software into a portable Radio Frequency (RF) detection and monitoring system that is small, lightweight, and easy to use. The software application interface is accessible by users with minimal RF knowledge, but also provides all the tools an experienced operator needs to accomplish the mission. The STC is intended to be used by security professionals for RF signals collection and analysis in support of static or mobile operations. It is ideal for use to evaluate Wi-Fi and cellular spectrum for unauthorized transmissions.

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[www.ctl-systemware.com](http://www.ctl-systemware.com)



## STC's intuitive software design meets a range of customer missions:

- Spectrum Management
- Wi-Fi detection and signal verification
- RF test and measurement
- Security Services
- Federal Communications Commission (FCC) compliance testing
- Executive travel support

## Features

- STC (10 kHz-26.5 GHz)
- Wireless or Ethernet control
- Portable and Lightweight
- User-Definable Sweep Parameters
- Discrete Frequency Scans with Individual Channel Settings
- Automated and Remote Functions Allow the System to Run Unattended
- Port Switch Capable
- Zoom Displays for Better Analysis and Signal Measurements
- Dynamically Adjustable Threshold Sensitivity
- Signals of Interest Displayed via User-Defined Limits
- Signals are Presented in Multiple, Easy to Read Formats

Channel	Freq	Amp(dBm)	Protocol	SSID	Src. MAC	Dest. MAC	Authorized?	HRS	Hqs Info	Security?	Manufacturer
1	2.412GHz										
2	2.417GHz										
3	2.422GHz	-71.80					Authorized	187			
3	2.422GHz	-71.80	802.11n	NETGEAR01	08 02 0E 9C 9D 7E	FF FF FF FF FF FF	Authorized	187	Beacon	Yes	Netgear
4	2.427GHz										
5	2.432GHz	-86.40					Authorized	185			
5	2.432GHz	-86.90	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	FF FF FF FF FF FF	Authorized	137	Beacon	Yes	Netgear
5	2.432GHz	-91.80	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	DA 18 06 0C 3E F7	Authorized	2	Probe Resp	Yes	Netgear
5	2.432GHz	-87.80	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	2C 0E 3D 7A 97 58	Authorized	2	Probe Resp	Yes	Netgear
5	2.432GHz	-86.10	802.11g	SWS-BandG WPA2	00 24 D2 46 47 71	FF FF FF FF FF FF	Authorized	8	Beacon	Yes	Askey Computer Corp
5	2.432GHz	-86.60	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	4C 66 41 0B ED 1D	Authorized	5	Probe Resp	Yes	Netgear
5	2.432GHz	-86.60	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	34 F3 9A 5C CD BF	Authorized	6	Probe Resp	Yes	Netgear
5	2.432GHz	-86.50	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	FF FF FF FF FF FF	Authorized	1	Data	Yes	Netgear
5	2.432GHz	-97.40	802.11g	SWS-BandG WPA2	00 24 D2 46 47 71	90 18 7C 22 A8 0A	Authorized	2	Probe Resp	Yes	Askey Computer Corp
5	2.432GHz	-86.70	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	90 18 7C 22 A8 0A	Authorized	3	Probe Resp	Yes	Netgear
5	2.432GHz	-99.30	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	C4 85 08 12 27 0D	Authorized	11	Probe Resp	Yes	Netgear
5	2.432GHz	-86.70	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	28 6A BA DD EA 71	Authorized	1	Probe Resp	Yes	Netgear
5	2.432GHz	-85.90	802.11g	SWS-Visitor	E4 F4 C6 09 F5 FE	CC 2D 82 64 BF 95	Authorized	5	Probe Resp	Yes	Netgear

## Wireless Collection and Analysis

- Wi-Fi Mac Address
- Bluetooth Mac Address
- SSID Detection
- Signal Strength
- Hardware Manufacturer
- Wi-Fi Protocol Detection
- ZigBee Node Addresses
- Packet Identification and Analysis
- Mac Address Registration
- Authorized vs. Unauthorized Lists

## Software Functions and Capabilities

- Sweep the RF Spectrum with User-Defined Frequency Parameters
- Maximum Sweep up to 26 GHz/sec
- Frequency (Channel) Scan
- Multiple Visual Representations of the RF Spectrum
- 2D Display, Waterfall Display, and Display Zooming Feature
- Signal of Interest Frequency List
- Real-Time Signal Analysis
- One-Button or Automatic AudioRecording
- Classification of Common Digital and Analog Signals
- Video Recreation (NTSC/PAL)
- Post-Collection Data Analysis Tools
- Colored Raster
- Consolidated Exceedance List



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CTL-SystemWare provides world class technical security solutions for the protection of government, corporate and private interests. Our services and solutions are uniquely designed to help our clients improve communications, protect intellectual property, secure the integrity of information systems and networks, and increase efficiency and mission effectiveness. CTL-SystemWare provides individualized risk mitigation solutions for modern technical problems.