



Kestrel TSCM™ Professional Software
Signal Intelligence Support System (SISS)

The Kestrel TSCM™ Professional Software is truly a bold new approach, taking advantage of significant and recent, technological advances in Software Defined Radio (SDR) based principles. The Kestrel TSCM™ Professional Software is a newly developed, professional level RF collection and analysis resource that is packed with operator centric, work flow based features and functionality designed by Professional Development TSCM Group Inc., over a period of (30+) years. This software is available to technical security professionals worldwide. Our software includes numerous advanced concepts far beyond those currently available. Our software supports a range of spectrum analyzers and search receivers. ✎

Key Features

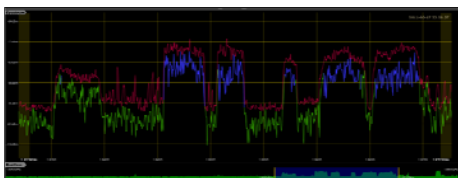
- Graphical User Interface (GUI):** Our advanced GUI design promotes operator situational awareness by grouping and dynamically linking essential control group elements and functionality, with intelligent automation. ✎
- RF Spectral Display (RSD):** Our sophisticated multiple window tab system allows the operator to sweep any number of specific Ranges of Interest (ROI) simultaneously. ✎
- Waterfall Display (WFD):** The waterfall display and historical trace recorder provide the ability to immediately observe and review new signals in the time domain. ✎
- Live View Analysis™ (LVA):** Real-time analysis of continuous and intermittent signals is now possible without the need to interrupt the data collection process. ✎
- Artificial Intelligence:** The combination of technologically sophisticated threat detection and intelligent signal combining algorithms accurately capture wide bandwidth signals. ✎

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"Innovation is Simply the Beginning..."

- Demodulation and Visualization:** The operator may quickly demodulate AM, FM, USB and LSB signals and display real-time FFT windows including RF spectrum, audio oscilloscope, IQ diagram and RSSI windows. ✎
- Threat Detection Algorithm (TDA):** Detection modes include Minimum Detection Amplitude (MDA), Harmonic Signature Threshold (HST) and a Chirp Threat Mode (CTM). ✎
- Differential Signal Analysis (DSA):** Our advanced DSA model permits an extremely detailed and precise target area comparative analysis of unique spectral data. ✎
- Spectrum Baseline Logging (SBL):** Capture a detailed baseline trace and signal list. This key operator feature is fully supported within the Kestrel TSCM™ Professional Software. ✎
- Session Report Generator (SRG):** Our Project and File Management structure; and advanced functionality provides a level of sophistication never before seen in a TSCM application. ✎

Professional Development TSCM Group Inc.

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Key Features

Graphical User Interface (GUI): Our unique GUI design is intuitive, work-flow based, operator centric and places all of the essential display and control groups, up-front and operator accessible. Our advanced dynamic control linking and the use of sophisticated artificial intelligence, automatically provides a wide range of optimal control setting options under full operator control during the collection and analysis and review process. ✨

Graticule Control Group: Our unique tabular windowing control allows the technical operator to easily setup, navigate, view and analyze multiple instances of independent spectral and waterfall data in a standard windows tabular format. The operator is able to set a wide range of global and unique viewing preferences for each independent spectral window. ✨

Automatic Threat Lists™ (ATL): There are two (2) levels of active threat list integration and generation that work intuitively to provide advanced positional zoom control and discrete signal demodulation ability. The sidebar ATL provides immediate access to the actual number of discrete signals identified and captured; frequency and signal level (dBm). The Master ATL window provides additional signal parameters including harmonic relationship; frequency; signal level (dBm); estimated bandwidth; date and time of collection; and location details. The technical operator can also include a classification category and add field notes relating to discrete signals. Each signal is placed on a uniquely colour coded window tab and duplicated on the Master ATL for amazing clarity. Our drag and drop technology allows any detected signal to be demodulated or dropped onto the graticule to immediately activate a 20x positional zoom control focus on the SOI. The operator may further zoom up to 200x manually. ✨

Live View Analysis™ (LVA): The real-time analysis of signals is possible without the need to interrupt the collection process and provides the operator with the ability to instantly review historical RSD and WFD on a trace by trace basis. The ability to playback critical spectral events on the RSD and WFD in real-time, with uninterrupted data collection, allows operator analysis of signals of interest (SOI) virtually as they occur. ✨

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Threats List

combined **CTM** HST SOI User SBL

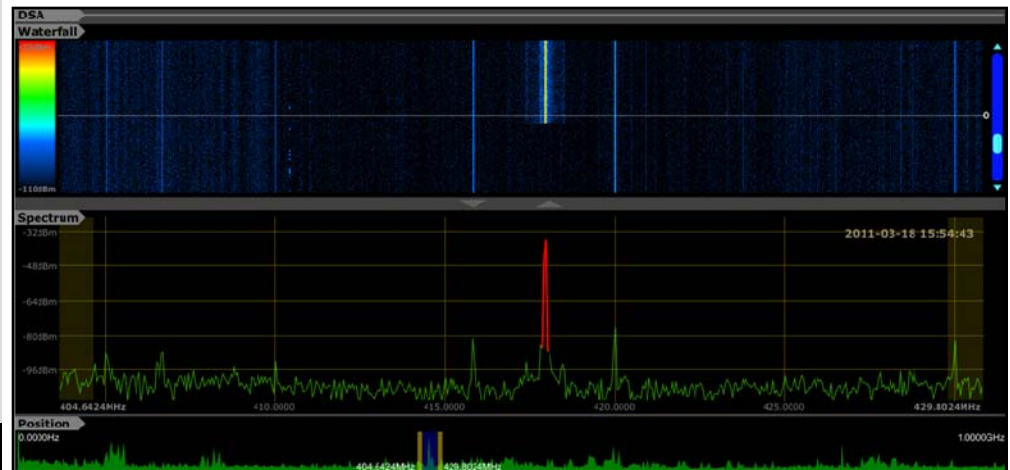
ID	Harm	Frequency	Level	BW	Detected	Location	Identity	Notes
1	F	10.9392KHz	101.0dBm	53KHz	2011-03-18 15:07:49	default		
2	F	94.7162MHz	-50.8dBm	106KHz	2011-03-18 15:07:49	default		
3	F	95.3037MHz	-44.8dBm	119KHz	2011-03-18 15:07:49	default		
4	F	102.9006MHz	-44.8dBm	113KHz	2011-03-18 15:07:49	default		
5	F	199.2619MHz	-53.7dBm	41KHz	2011-03-18 15:07:49	default		
6	F	417.9482MHz	-35.2dBm	56KHz	2011-03-18 15:07:49	default		
7	F	603.2621MHz	-51.8dBm	46KHz	2011-03-18 15:07:49	default		
9	F	107.8882MHz	-44.7dBm	150KHz	2011-03-18 15:07:59	default		
10	H2	835.8973MHz	-51.6dBm	56KHz	2011-03-18 15:08:00	default		

Threat 6

Type: **CTM** Location: **default**
 Frequency: **417.9482MHz** Identity:
 Bandwidth: **56KHz** Date/Time: **2011-03-18 15:07:49**
 Amplitude: **-35.2dBm** Related:
 Modulation: **FM** **6:CTM(F) 417.9482MHz**
 Chirp result: **11%** **10:HST(H2) 835.8973MHz**
 Harmonic: **-**
 Noise Floor: **60.4dB ANF**
 Notes:

Threat 10

Type: **HST(H2 of 6)** Location: **default**
 Frequency: **835.8973MHz** Identity:
 Bandwidth: **56KHz** Date/Time: **2011-03-18 15:08:00**
 Amplitude: **-51.6dBm** Related:
 Modulation: **FM** **6:CTM(F) 417.9482MHz**
 Chirp result: **18%** **10:HST(H2) 835.8973MHz**
 Harmonic: **-16.4dBc**
 Noise Floor: **54.1dB ANF**
 Notes:



"Specifications are subject to change without notice..."

"Kestrel TSCM™ Professional Software - Well Positioned to Hunt in a Complex Signal Environment..."