

# Kestrel TSCM<sup>®</sup> Professional Software

*RF Sweeps, Capture, Analysis, and Remote Spectrum Surveillance and Monitoring, have Never been this Easy!*

# Signal Intelligence Support System

*Developed in Canada, Kestrel TSCM<sup>®</sup> is well Positioned to Hunt in a Complex Signal Environment!*

**Not Just Another TSCM Spectrum Analyzer! | Now You Can Have Tomorrows TSCM Software — Today!**

## | 100% Canadian Innovation | Since 2009

Our professional experience is your power, and innovation, is our design methodology!

## | Operator Centric Focus

Kestrel TSCM<sup>®</sup> places the technical operator back in control of the mission and analytical process, with a powerful, standards based, full featured TSCM application, like no other.

## | Low Cost of Ownership

Lower cost of ownership ensures that future component upgrades can be better budgeted and managed as deployment requirements, and developing threat technology advances.

## | Budget Friendly Platform

All team members can be equipped with a dedicated Kestrel TSCM<sup>®</sup> Professional Software resource, promoting greater efficiency, and enhancing operator situational awareness.

## | Future Proof Architecture

SDR hardware, host computer, and antennas, are all upgradable, as mission requirements change. Budgeting is easy, with no requirement to replace the entire system down the road. Kestrel TSCM<sup>®</sup> is obsolescence proof, extending the operational live cycle indefinitely.

## | Mission Agnostic

Kestrel TSCM<sup>®</sup> is deployment ready, for professional TSCM, RSSM<sup>™</sup>, and SIGINT applications. Kestrel<sup>®</sup> is ideal for EMP detection, RF Flooding detection, Interference Analysis, Regulatory Enforcement and Quality of Signal (QOS) monitoring, and assessments, and is a cost effective solution for Research and Development (R&D), and educational uses.

## | Host Computer Versatility

Kestrel<sup>®</sup> takes advantage of the latest COTS computing hardware, which can seamlessly upgraded, as more powerful computing technology becomes available.

## | NTSC Video Demodulation

NTSC Video demodulation is a standard feature within the software, with additional Video Standards under development. Digital demodulators and protocol analysis tools, are currently under development.

## | Custom Features | Functionality

Our Software Development Group (SDG) can design, and seamlessly implement custom end-user features, and advanced functionality.

## | Field Serviceability

Swapping out component level hardware is fully supported, often without the need to return a primary equipment resource to the manufacturer.

## | Global Positioning System (GPS)

Full support for generic USB controlled GPS Rx integration. Automatically capture GPS coordinates, providing relative positional data, which is utilized to resolve precise collection locations. The manual entry of coordinates is also supported.

## | Multi-Tasking Capable

Designed to meet, and exceed Commercial, Government, and Military, Technical Security (TSEC) requirements. Supports, mission based Signals Intelligence (SIGINT), Technical Surveillance Countermeasures (TSCM), and Remote Spectrum Surveillance and Monitoring (RSSM)<sup>™</sup> assignments.

## | Scalable SDR Solution

Start small, or start big, based on budgetary and / or anticipated deployment requirements, while maintaining building block components for maximum deployment scalability, versatility, redundancy, and fail-safe operation.

## | Virtual Reality Floor Plan | Mapping

Import Architectural Floor Plates, graphical 3D Renderings, Facility Riser Plots, Facility Site Plots, Geographical Maps, and Virtual Reality Photographs. Drag-and-Drop defined Antenna Locations, onto any imported image.

## | IQ Record | Playback | Loop

Manually activated IQ Record and Playback, with analytical looping, in KIQ, and CSV file formats. Additional IQ formats are currently under development.

## | Automatic Export Control (AEC)<sup>™</sup> | OPT AEC

Powerful AEC<sup>™</sup> features allows the operator to define time periodic or triggered export of Spectra, and RSSI data as CSV files. Triggered IQ permits automatic export to KIQ or CSV format.

## | Colour Coded | Automatic Threat Lists

Colourful Automatic Threat Lists (ATL) bring clarity to complex data relationships, and Signal Combining Technology (SCT)<sup>™</sup> simplifies the analysis review process of complex data.

## | Signal Profile | Database

Integrated Signal Profile Database (SPD), enhances operator situational awareness, and advances the analysis process.

## | Dual Rx Ready | Multiple Rx Hand-Off

A standard software licence is Dual Receiver Operation (DRO) ready. Hand-Off the active Spectrum and Demodulation process across any supported receiver or spectrum analyzer. Support for multiple receiver hand-off with real-time dynamic Rx synchronization.

## | Multiple Band | Tabbed Windows

Innovative colour-coded Spectra band tabs promote exceptional operator situational awareness. Support for any number of independently controlled tabbed Spectra windows, across multiple bands, receivers and spectrum analyzers.

## | 8 Rx Manufacturers | 26 Rx Models

Kestrel Support Profiles (KSP)<sup>™</sup> for Anritsu, CRFS, Rhode & Schwarz, Shearwater TSCM, Signal Hound, Tektronix, ThinkRF, and the SDR Play II Pro. Future ready architecture with support for the next generation of SDR receivers and spectrum analyzers, with end-user SDR hardware support to 325 GHz.

## | Rx Support 1 Hz to 43 GHz

Model dependent support for 2 GHz, 3.5 GHz, 4.4 GHz, 6 GHz, 6.2 GHz, 7.5 GHz, 8 GHz, 9 GHz, 12.4 GHz, 13 GHz, 18 GHz, 20 GHz, 27 GHz, 30 GHz, 32 GHz, and 43 GHz.

## | Intermediate Frequency Broadband (IFB)<sup>™</sup>

Our recently implemented IFB<sup>™</sup> feature supports real-time sweep and capture of the full hardware dependent, IF Bandwidth, from 240 kHz to 160 MHz, and supports all key capture, display, and analytical features.

*Visit us online to learn more about the key features and benefits of the Kestrel TSCM<sup>®</sup> Professional Software, Technical Operator Certification Training, and to register for the Canadian Technical Security Conference (CTSC) | April 2018 | [www.ctsc-canada.com](http://www.ctsc-canada.com)*



## Professional Development TSCM Group Inc.

*"Innovation is Simply the Beginning..."*

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