

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

## Developed for the National Security Apparatus

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The Kestrel TSCM<sup>®</sup> Professional Software has witnessed a 70% increase in all sector international sales this past year as our software has found its way into the national security apparatus with powerful advanced features simply not found in any other so-called competitive product.

Our customers speak highly of the new innovative direction that we have taken with our software and the departure from obsolete cold-war era TSCM concepts inexplicably still embraced by many competitors, in favour of a modern moving target threat model developed by Professional Development TSCM Group Inc., engaged in recognized applied scientific research and development 100% in Canada.

The same old tired concepts brandishing a new cover simply can not get the job done, nor does simply trying to match the industry competitive standard, just to be a competitor.

It takes real experience and a desire to improve the industry, and not make it all about sales dollars.

As noted in the June 2019 newsletter.

*"We are looking forward to the new year which marks yet another exciting milestone for Professional Development TSCM Group Inc., with the 20th anniversary of the TSB 2000 (Technical) Standard<sup>™</sup>; the basis for our Technical Security Specialist (TSS)<sup>™</sup> designate certification program, the Canadian Technical Security Conference (CTSC)<sup>™</sup>, Canadian Technical Security Professional Association (CTSPA)<sup>™</sup>, and the same standard that is the foundation of the Kestrel TSCM<sup>®</sup> Professional Software development process".*

Customer satisfaction is at an all time high with many industry significant entities providing meaningful ideas and suggestions for making the Kestrel TSCM<sup>®</sup> Professional Software stronger and more focused with each new release.

This level of operator interaction allows our Software Development Group to prioritize the development process and bring needed features to life in near real-time.

Our advanced pro-active concept of a "moving target threat model" continues to gain credibility worldwide and has become synonymous with the Kestrel TSCM<sup>®</sup> Professional Software methodology.

Unfortunately, commercial operators are slower to embrace change, still believing that a flashlight and ladder are the most important tools. In-fact, I recently attended a training seminar where this statement was declared several times during the training.

The RF resources discussed consisted of approximately 40 minutes of discussion, and focused on obsolete broadband detectors and a flashlight and ladder.

Our unique and highly focused business model provides the ability to meet the real-time requirements of mission critical applications by implementing specialized feature sets never before implemented in a dedicated TSCM product; everything else is really just a spectrum analyzer, or worse!

### The Importance of IQ

The ability of the chosen TSCM resource to trigger, capture, and playback IQ is an essential practice in any competent RF based mission critical deployment.

IQ recording provides the most powerful means of conducting signal analytics during TSCM, SIGINT, ELINT and other RF focused deployment requirements.

The Kestrel TSCM<sup>®</sup> Professional Software provides a unique set of IQ resources, including the ability to capture IQ samples in KIQ, CSV, and WAV formats.

Playback, looping, time reference sub-sampling, and the ability to trigger IQ capture automatically, utilizing for example Minimum Detection Amplitude (MDA), and our innovative Dynamic Alert Annunciator (DAA) technology provide unprecedented mission capability.

The capture and processing of analytical IQ simply cannot be accomplished on low quality processors associated with many test and measurement and TSCM marketed products and requires a mid-level gaming laptop to get the job done.

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## A Signal may Disappear without Warning Never to be Seen Again — Will You Have a Captured IQ Sample?

Professional Development TSCM Group Inc.

Technical Security Branch (TSB)

Our latest addition to the KIQ capture feature now permits longer files to be (start | stop) time-reference edited to produce sub-sampled playback looping, bringing efficiency and clarity to the analytical process.

### New Features and Functionality (v1.40-14) Beta

Our latest Beta drop file (works with the v1.39-3 installer) includes a number of new features and functionality that complement existing features. The latest addition includes the ability to display an operator controlled DATE TIME, TIME (only), and FREQUENCY reference scale overlay graticule and measurement annotations specific to the WFD.

These new features complement our existing ZOOM to PEAK feature allowing the technical operator to focus on one of the most important aspects of a spectrum analyzer display, namely the Waterfall Display (WFD).

The ability to time and frequency bracket Signals of Interest (SOI) displayed within the WFD allow the technical operator to conduct advanced analytics and traffic analysis.

Oftentimes, signal events are difficult to visualize within a busy RF Spectrum Display (RSD) due to DSP and display limitations or latency. However, the WFD is generally unaffected and will provide a clear real-time picture of the signal activity present and offer the ability to determine the number of events, the start and stop time of events, the amplitude and bandwidth.

### Software Tweaks (v1.40-14) Beta

The ability to overlay multiple spectrum traces in real-time from multiple radios is fully supported within the Kestrel TSCM<sup>®</sup> Professional Software. In-fact, it is possible to drop spectrum of any bandwidth onto another spectrum as a direct real-time, average, or peak, comparative against a runtime or historical spectrum. This powerful feature is available within a runtime Kestrel Project File (KPF)<sup>™</sup> or when utilizing our Receiver Differential Signal Analysis (RDSA)<sup>™</sup> feature, and associated algorithms supporting real-time multiple radio Geolocation.

When the RDSA<sup>™</sup> feature is deployed within the Analyzer Control dialog window, each available radio can be assigned a unique “radio location”, which will now automatically display within the Setup Wizard “Antenna Locations” list.

This latest tweak brings further operator centric clarity to the RDSA<sup>™</sup> feature deployment.

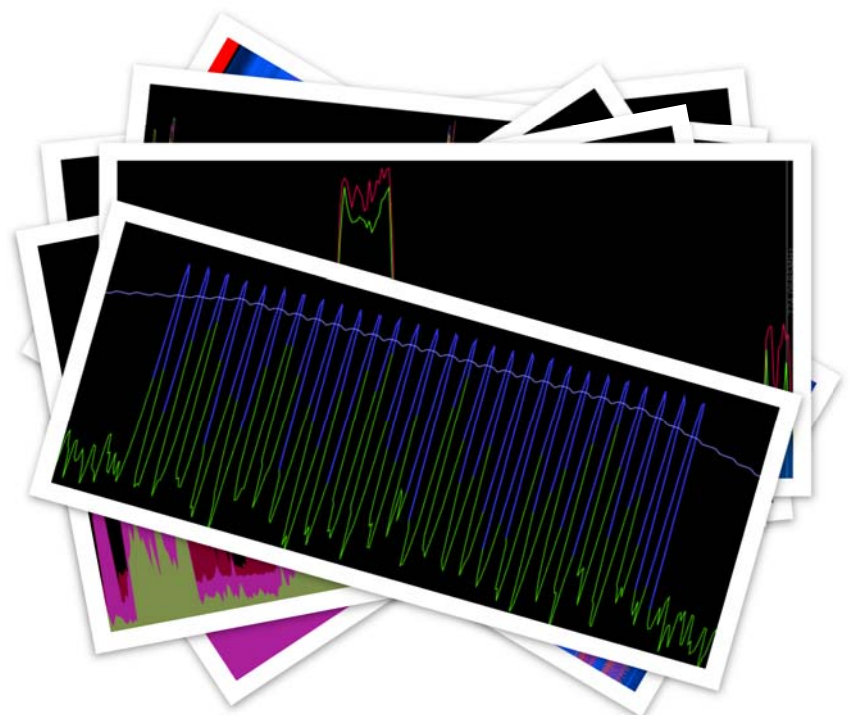
The ability to hide / show the sidebar menu structure is yet another tweak now supported.

This new feature, suggested by an end-user permits the spectrum and waterfall display to utilize the full width of the available display area and is particularly useful on smaller display screens common with tablet style computers.

The sidebar menu structure can be hidden from view with a single button press and the controls returned to full display, again with a second single button press.

**Innovation is Simply the Beginning!**

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**Kestrel TSCM<sup>®</sup> Professional Software is innovative industry leading, disruptive technology, sold in 44 countries worldwide.**