

# Kestrel TSCM ® Professional Software

## The Mighty Kestrel ® Has Evolved Significantly

### During the First Half of 2023

August 2023 | Issue 98

Technical Research and Standards Group

Paul D Turner, TSS TSI

#### New Capability!

Our new runtime Automatic Project feature has become the talk of the Kestrel ® community this past month. This powerful capability allows the mighty Kestrel ® to fully automate the software runtime initialization environment across any number of radios in less than one second. Each SDR is automatically run in a maximum effort deployment mode, across the full radio range, at an appropriate

RBW and Write Compression factor, while remaining totally under the full control of the technical operator throughout the mission. Our latest demodulation visualizer based Heat Mapping Spectrogram has also created many positive comments, as a highly focused TSCM resource within the software. Yet, another standards based resources is about to be released into the wild to allow the operator to define a formalized grid of TCP Auto Locations, based on our standards-based Antenna Placement Distance (APD)™ methodology. Kestrel continues to become more powerful, with every new software release.

#### New Training

The Kestrel TSCM ® Professional Software is supported by a standards-based core training methodology well-beyond the software. Our training programs provide much more than how to operate the product! When participants keep an open mind, put aside what they think they know based on other training, they soon become to realize the many benefits of an all-encompassing award winning TSCM software. Our 2023 training program reorganization sees a 5-day, 7-day, and 10-day Certified Technical Operator (CTO)™ and for the Certified Government Technical Operator (CGTO)™ format. We have also added a range of 3-day add-on specialist programs and have fully updated our 14-day Technical Security Specialist (TSS)™ designate certification program.

#### Kestrel ® Spectral Energy Localizer (KSEL)™

So, what is coming next? We are currently working on a powerful new TCP™ advanced direction-finding resource that is fully integrated with the existing Tap Capture Plot (TCP)™ resource and the demodulation control group. This capability allows the operator to immediately transition from our dimensional geo-location heat mapping mode; to radio direction-finding utilizing the Kestrel Transitional Spectral Energy Localizer (TSEL)™ resource. Whether searching for an unintentional TEMPEST emission, or a probable threat actor placed hostile Technical Surveillance Device (TSD)™; it is essential to understand that localization is key to a successful mission!

The TSEL™ feature is based on our vast technical experience in identifying hostile signals in the field. Kestrel ® is the only standards-based TSCM focused application based on the TSB 2000 (Technical) Standard™.

#### TCP AUTO-APD

The TCP™ feature adds clarity with operator-defined; automatically appended auto-locations based on our standards-based Antenna Placement Distance (APD)™ criteria with a focus on field deployment conditions, all based on the technical operator assessment of the determined threat environment, or deployment requirements.

This feature is ready for release in the next automatic software update at v1.49.1 (or higher).

Watch for further announcements about these two (2) new features firmly on the next release horizon.

#### Counterfeit Kestrel ® Training

This year has been witness to a major shift in how authorized Kestrel ® training is conducted. We have now served notice for all companies who were running unauthorized training programs, or claimed the right to sell Kestrel ® to unsuspecting end-users, primarily in the UK and EU. The majority of end-users within this market have now been made aware of these unauthorized training and sales activities outside of our official distribution network.

**Remember, in a Moving Target Threat Model the Technical Operator is the Spectrum Analyzer...**

# Kestrel TSCM ® Professional Software

## Introducing the Kestrel Universal Spectral Translator (UST) and Kestrel ® Lightning SDR Hardware



Professional Development TSCM Group Inc.

Technical Security Branch (TSB)

In April 2023, during the CGTO program, leading up to the Canadian Technical Security Conference, we completed the official TSI training for two new authorized instructors from Vilution Ltd (UK) (EU), and RSAS (FR) (EU). Our short list of qualified technical instructors, work under the direct supervision of Professional Development TSCM Group Inc.

### Kestrel Lightning™ (KL Series) SDR Hardware

It has been a long journey to establish credible SDR hardware options that provide a meaningful solution for TSCM and SIGINT applications. Signal Hound and ThinkRF Corporation have become the proving ground during the past decade for their quality and relevance as advanced software defined hardware options. Due to competitive interference, and other considerations, team Kestrel® has been engaged in considerable research and development efforts since 2019 to develop additional hardware options, that expand the capabilities of the Kestrel® TSCM Professional Software. This work has resulted in the new Kestrel Lightning (KL Series) of SDR radio hardware intended for full integration in the most powerful TSCM tactical drop box ever available (official release pending) from 9 kHz to 40 GHz.

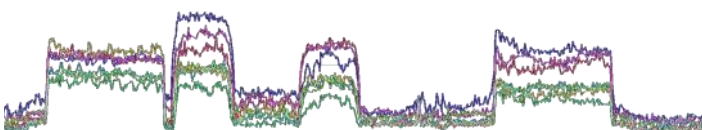
The powerful KL63, KL63S, KL85, KL85S, KL95, KL200, KL220 and KL400 radios are now a reality and are in the final testing and integration phase. The hardware have been handed off to the Software Development Group for build out of the required Kestrel Support Profile (KSP)™ work.

Stay tuned (pun intended)!

### Canadian Technical Security Conference (CTSC 2024)™

CTSC 2024 will be held in Calgary Alberta Canada from Tuesday April 23, 2024 to Thursday April 25, 2024 given the overwhelming success of the CTSC 2023 event.

CTSC 2024 will be our 16th annual event; after 3-years of COVID cancellations, and will be hosted at the University of Calgary Downtown Campus.



Professional Development TSCM Group Inc., is running an advanced 7-day Certified Technical Operator (CTO)™ and Certified Government Technical Operator (CGTO)™ program the week prior to the

CTSC conference, from Monday April 15, 2024 to Saturday April 21, 2024, also at the University of Calgary. Please contact us for additional information or visit the official CTSC 2024 website at <https://ctsc-canada.com>

Our low CTSC 2024 registration fee is just \$575.00 CAD and includes our hospitality night networking event on the (first evening); our dinner and awards night, on the (second evening); a tasty working lunch is included during each day of the conference. Registration is always open for participants, exhibitors, sponsors, advertisers, and speakers. CTSC 2024 is shaping up to be a professional development opportunity, simply not to be missed!



*Innovation is Simply  
the Beginning!*

**Professional Development TSCM Group Inc.**  
*Technical Security Branch (TSB)*

| [www.pdtg.ca](http://www.pdtg.ca) | [www.kestreltscm.com](http://www.kestreltscm.com) | [www.ctsc-canada.com](http://www.ctsc-canada.com) |

Paul D Turner, TSS TSI | President | CEO | [pturner@pdtg.ca](mailto:pturner@pdtg.ca)

Andrzej Wolczanski, TSS TSI | [awolczanski@pdtg.ca](mailto:awolczanski@pdtg.ca)

Carol Fairbrother | CTSC Event Manager | [cfairbrother@pdtg.ca](mailto:cfairbrother@pdtg.ca)

Rebecca Kairouz, TSI | Vilution Ltd. | [EUSupport@pdtg.ca](mailto:EUSupport@pdtg.ca)

*Kestrel TSCM® Professional Software is innovative industry leading, disruptive technology, sold in 58 countries worldwide!*