Kestrel TSCM ® Professional Software Introducing the Signal Hound SM435B Spectrum Monitoring Receiver December 2021 | Issue 78 **Technical Research and Standards**

Paul D Turner, TSS TSI

Signal Hound SM435B Receiver



The much-anticipated new Signal Hound SM435B Spectrum Monitoring Receiver is firmly on the horizon. The radio has an



increased tuning range of 100 kHz to 43.5 GHz. The SM435B has 160 MHz of real-time instantaneous (intermediate-frequency) bandwidth (IFB) with ultra-low phase noise that rivals even the most expensive high-performance spectrum analyzers on the market. The radio can process 2-seconds of a full 160 MHz of streaming Block IQ Transfer

across a USB 3.0 connection. The SM435B has a 20 MHz to 43.5 GHz sub-octave preselector. This flagship product expands your reach well into the millimeter wave spectrum at an affordable price point that the competition simply cannot touch. This is truly a high-performance mmWave analyzer in a portable and mobile deployable format. The extended frequency-range enables test and measurement of the new 5G mmWave bands.

The progression from the SM200 @ 20 GHz to the SM435 @ 43.5 GHz brings powerful new TSCM capability well into the mmWave bands occupied by 5G wireless technologies.

In the United States of America, the SM435 extends the TSCM capability across the 24.25 GHz to 24.45 GHz, 24.75 GHz to 25.25 GHz, 27.5 GHz to 28.35 GHz, 37 GHz to 37.6 GHz, and 37.6 GHz to 40 GHz bands.

In Canada, the SM435 extends the TSCM capability across the 27.5 GHz to 28.35 GHz, 37 GHz to 37.6 GHz, and 37.6 GHz to 40 GHz bands.

In the European Union, the SM435 extends the TSCM capability across the 24.5 GHz to 27.5 GHz band.

The SM435B is scheduled for official release toward the end of the first guarter 2022 and full Kestrel TSCM ® Professional Software support will be in-place concurrent with the availability of this ground-breaking new technology. When deployed in combination with the Kestrel TSCM ® Professional Software, operators will have the most powerful technology available.

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

A Year in Review



2021 has certainly proven to be a significant challenge in the training, certification, and operational deployment arena. Our unique business model has proven to be resilient and robust allowing Professional Development TSCM Group Inc., to better navigate the COVID minefield with the full confidence of our client base worldwide.

If-fact, 2021 has proven to be operationally, the busiest in recent years for our company. We have taken on many new technical security clients, deployed in several new countries, and provided advanced TSCM training and certification worldwide, via live classroom, online virtual classroom, and our very popular monthly WebEx based, "All Things Kestrel | Virtual Classroom" opportunities for Kestrel operators.

We continue to expand our business operations across a standards-based deployment methodology with our highly-focused and robust business model.

On the training front, we are the only company that seems to recognize the importance of providing live signal analytics training at the technical operator level. When others incite to intimidate and provide misinformation by omission, our company continues to provide advanced training to commercial and government operators from law-enforcement to national security entities worldwide.

We continue to see the industry saturated with copy-cat websites that make unfounded and uninformed claims and statements. Unfortunately, there are still a great many uninformed end-users that fall victim to the claims and rhetoric. I guess, that is the very nature of free speech. However, talking nonsense is not the same as free speech, in my view. If you are looking to implement a real technical security, TSCM, or counter-intelligence program, you need to speak to Professional Development TSCM Group Inc. We encourage you to explore all of the options and then give us a call before you make your decision to engage professional services of this nature.

Many "in the know" entities sub-contract their TSCM requirements to Professional Development TSCM Group Inc., however, we never sub-contract to other individuals or entities when it comes to the delivery of professional services. You deal directly, with our qualified Technical Security Specialists (TSS) [™], at all stages of the assignment.

Kestrel TSCM Professional Software

Introducing Kestrel Central Visualizer—Remote Radio Management (OPT KCV-RRIV

Professional Development TSCM Group Inc.

Technical Security Branch (TSB)

Canadian Technical Security Conference (CTSC)



We are very pleased and excited to announce that the 15th Canadian Technical Security Conference (CTSC) is back on track for 2022 after being postponed due to the COVID pandemic for the past two years, events. It is time to get back to the task of professional development and networking with professional colleagues.

For the first time in the history of this unique event, CTSC 2022 will be hosted at the University of Calgary in the heart of Alberta Canada. The shift from Ontario to Western Canada opens up many exciting possibilities. The venue is located in the heart of the city of Calgary, with nearby hotel accommodations, lots of restaurants and pubs, and various tourist attractions. The downtown C-train provides easy transportation from the airport and around the city.

The venue provides a comfortable and fully equipped classroom environment that facilitates a friendly, and casual learning and networking environment that maximizes professional development.

The CTSC event is scheduled to run from Tuesday April 26, 2022 to Thursday April 28, 2022. This is a 3-day event starting at 0830 hours each morning and finishing at 1630 hours. Morning and afternoon refreshment breaks, complement a provided working lunch during each day of the conference. A casual dinner is also included on the second evening of the conference.

Our popular and light-hearted competitive bug-off event provides all participants with an opportunity to test their knowledge and skill with the latest TSCM equipment resources in our famous "bug" room, coordinated by "the office of evil intent".

All participants are welcome to join us in this rare hands-on opportunity to better understand the nature of the equipment utilized, and the various methods and techniques of deployment against the detection of modern espionage trade-craft.

The theme for CTSC 2022 is;

Defining the Challenges of a Modern Moving Target Threat Model: Exploiting the Advantages of a formal **Technical and Cyber Security Program**

Traditional security approaches have relied on the ad hoc application of Technical Surveillance Countermeasures (TSCM), Physical Security and Cyber Security concepts. Unfortunately, the resulting piecemeal approach to security is certain to leave gaps and weaknesses that will be found and exploited by a determined and resourceful attacker. At the same time, advances in technology on both sides are creating seemingly infinite opportunities for attackers:

Powerful tools for compromising information technology and communications systems continue to be developed and deployed;

Sophisticated, surveillance technologies are available at low cost;

Data can be collected from publicly available sources for use in an intelligence context (open-source intelligence);

Social engineering approaches (with remarkable success) can be used to acquire information from an organization's employees (HUMINT), induce them to make mistakes, or be used to spread misinformation damaging the organization's reputation.

| https://ctsc-canada.com |



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Paul D Turner, TSS TSI | President | CEO | pdturner@pdtg.ca Andrzej Wolczanski, TSS | awolczanski@pdtg.ca Gabriele Conflitti, TSS | gconflitti@pdtg.ca Carol Fairbrother | CTSC Event Manager | cfairbrother@pdtg.ca