

Kestrel TSCM[®] Professional Software

Advancing the Art and Science of Technical Security

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Technical Research and Standards Group (TRSG)

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The Kestrel TSCM[®] Professional Software is well-positioned as a powerful, Remote Spectrum Surveillance and Monitoring (RSSM)[™] platform.

As noted in the March 2016 newsletter.

“Kestrel TSCM[®] Professional Software is the definitive leader in delivering innovative milestones of operator centric, TSCM specific features and functionality demanded by professional end-users. Technical Surveillance Countermeasures (TSCM) and Remote Spectrum Surveillance and Monitoring (RSSM)[™] are just two (2) primary, but essential design elements of the Kestrel[®] software”.

Our Technical Research and Standards Group (TRSG)[™] has not only developed the necessary software features, but also the methodology for the development of a powerful, budget friendly RSSM[™] platform.

The requirement for RSSM[™] technology is a necessary and progressive response to the complex threat environment with respect to the ever-increasing use of wireless based technology at the consumer, commercial, and even various actors in the espionage game.

The following is an introduction to the RSSM[™] system architecture and real-world deployment, as a must have professional system or service, that compliments the typical TSCM inspection protocol.

Building an effective RSSM[™] platform requires more than just the hardware and software elements.

It requires the design and implementation of a threat model, identification of critical infrastructure, innovative system architecture design, deployment strategy, and a knowledgeable technical analyst to monitor the platform and analyze the extensive spectra produced.

Once an effective threat model is established, it is essential to select the best mission specific Software Defined Radio (SDR) hardware.

Our ability to support multiple SDR manufacturer, hardware products, provides mission specific flexibility

and future scalability, as requirements change.

Once the SDR hardware requirement is decided, the development of a suitable system architecture is the next step in the process.

An RSSM[™] platform can be defined as a simple standalone system, deployed temporarily on a laptop computer, within an office, meeting room, or area.

Alternatively, the system can be more complex, and installed as a permanent integrated monitoring system.

Although, the components for both systems are generally the same, the actual deployment of the various components is in-fact, slightly different.

Our portable RSSM[™] Rapid Deployment Kits (RDK) include one (1) or more suitable search receivers, a powerful, custom pre-configured laptop computer, Kestrel TSCM[®] Professional Software, KestrelPod II[™] (Portable) Ultra Wide band Surveillance Antennas, accessory cable package, GPS Receiver, and a 3G | 4G | LTE modem, all packed in a hard-transit case.

For permanent infrastructure based platforms, the components include one (1) or more suitable search receivers, a powerful pre-configured laptop, or a very powerful micro-computer, Kestrel TSCM[®] Professional Software, infrastructure based KestrelPod I[™] (Ceiling Mount) Ultra Wide band Surveillance Antennas, accessory cable package, a Gigabit LAN or Multi-Mode Fiber-Optic module, and a 3G | 4G | LTE modem.

Remote Operation | Theory and Practice

The ability of the technical operator to remotely communicate with the RSSM[™] System permits both on-demand and random Spectra review and analysis.

System maintenance can be accomplished remotely, including OS and software updates for the host computer, including Kestrel[®] as required.

The remote system computer can be safely rebooted remotely, if required, once updates have been installed.

Kestrel TSCM[®] Professional Software

We Are Future Ready—Are You?

Professional Development TSCM Group Inc.

Our remote collection platform fully supports real-time spectrum and demodulation streaming, utilizing a secure Remote Desktop Software (RDS) connection.

RSSM[™] is an ideal platform for the collection, storage and analysis of the ambient RF spectrum environment for general compliance verification, regulatory monitoring, counter-espionage, interference analysis, training, and many other mission specific applications.

The ability to turn a “snap-shot” style, traditional inspection, into a 24/7 “high-definition” analytical platform is quickly becoming the new standard in Technical Surveillance Countermeasures (TSCM) deployment applications.

The ability of the Kestrel[®] RSSM[™] platform to record and playback IQ packet streams, in combination with our powerful Automated Export Control (AEC) capability, and Command Line Programming (CLP), means that unattended collection is now a practical reality.

Single, Dual and Multiple receiver support is possible, across multiple spectrum band allocations, and permits scalability and deployment flexibility that is budget friendly, and maximizes the Probability of Detection (POD) significantly.

The Kestrel[®] platform is an agile, dual purpose system, providing an operator centric, TSCM specific capability for RF spectrum analysis that can be reconfigured from operator assisted TSCM to conduct unattended Remote Spectrum Surveillance and Monitoring (RSSM)[™].

The current support level of the Kestrel TSCM[®] Professional Software is 1 Hz to 43 GHz, offering entry-level and advanced Signals Intelligence (SIGINT) hardware capability.

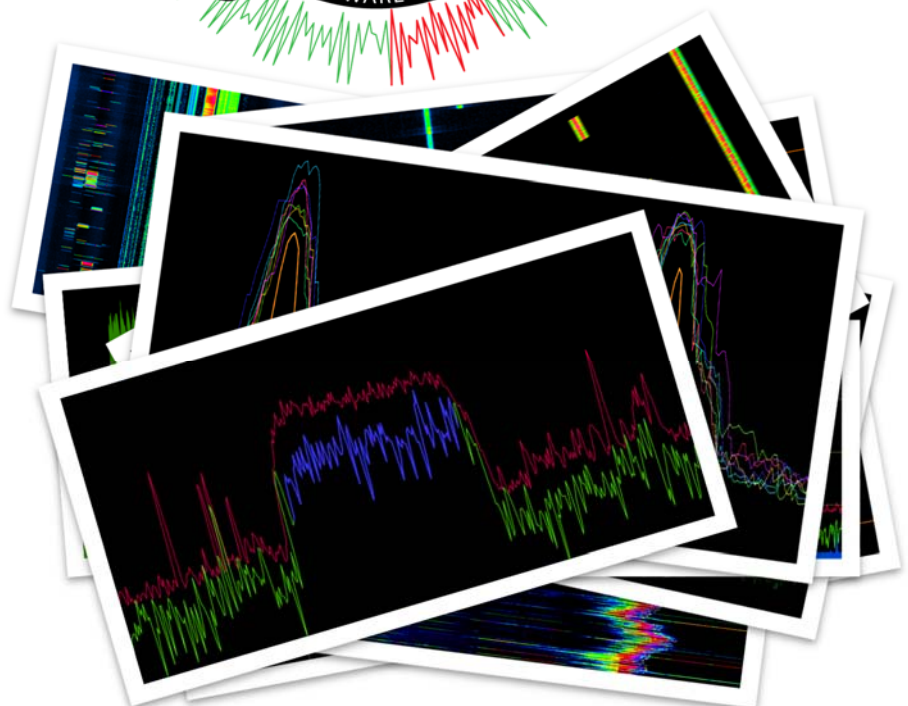
For more information about the future role of Software Defined Radio (SDR) for SIGINT | TSCM | RSSM[™] applications, visit our website at www.kestreltscm.com

Canadian Technical Security Conference (CTSC)

The Canadian Technical Security Conference (CTSC)[™] is scheduled to run from April 26, 2016 to April 28, 2016 at our Resident Training Centre (RTC)[™], located in Cornwall Ontario.

| www.pdtg.ca | www.kestreltscm.com | www.ctsc-canada.com |

Innovation is Simply the Beginning



Kestrel TSCM[®] Professional Software is innovative industry leading, disruptive technology, now sold in 24 countries worldwide.