

Kestrel TSCM[®] Professional Software

Tactical Spectrum Monitoring (TSM) | Protective Role

August 2017

Technical Research and Standards Group (TRSG)

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There are many aspects of conducting organized high-risk protective assignments that significantly benefit, from actionable RF intelligence.

Professional Development TSCM Group Inc., is perhaps one of the few technical security organizations that has cultivated years of field experience in providing, advance team operational counter-intelligence support, and defensive RF based counter-intelligence, for international venues, aircraft, marine vessels, residences, hotels, meeting, conference facilities, and special events.

Protective operations often bring all of the unknowns together in one place, and raise the threat profile dramatically in every respect during international based out of country operations.

A tactical approach, rather than a technical approach is essential, within an organized protective role, given the complexities of travel, accommodations, organized special events, public venues, and transportation logistics.

As noted in the July 2017 newsletter.

“The minimum recommended analytical best practice, as defined by the TSB 2000 (Technical) Standard[™], includes a technical operator analysis of the Waterfall Display (WFD) and spectrum data, for the preceding 24 to 72 hours, utilizing Time Differential Signal Analysis (TDSA)[™] across a maximum time block reference of 4 to 6 hours, spanning the number of collection days available. The POI is significantly enhanced when the system is deployed for a period of 24 hours or longer, as there will be a greater number of opportunities for detection of the burst event, with time being an important variable”.

Oftentimes, the destination venue cannot be locked down too the level desired, before, and even during the event, and this is why a tactical-intelligence approach is strongly recommended.

This process always starts with the advance team, who may not have a certified Technical Security Specialist

(TSS)[™] as defined under the TSB 2000 (Technical) Standard[™], as part of the protective team.

Members of the advance team can be cross-trained to deploy multiple sensors, as determined, or required, across various venues, sites and transportation resources, well in advance of the principals arrival at any particular venue.

An experienced technical operator can remotely monitor the ambient RF spectrum environment for persistent and periodic, potentially hostile signals, based on the types of sensors actively deployed, on a 24 / 7 basis.

Expensive, single box spectrum analyzers, simply cannot achieve the required level of analytical data, nor compete with powerful Software Defined Radio (SDR) resources.

The prospect of each advance team member carrying their own tactical deployment system enhances travel logistics and ensures scalability in deploying a tactical RF intelligence network, operating in real-time.

The real-time, event drive interaction, with the advance team, and an experienced Technical Security Specialist (TSS)[™] is an essential practice in today's high-risk international business travel environment.

There will always remain a requirement for traditional in-country defensive Technical Surveillance Countermeasures (TSCM), often of a covert, or low profile nature, however, the missing security protocol in the vast majority of protective assignments, is the early integration of a sophisticated multi-sensor based, managed, Remote Spectrum Surveillance and Monitoring (RSSM)[™] capability.

It all starts with the advance team, deploying the Kestrel TSCM[®] Professional Software | Signals Intelligence Support System (SISS)[™] at multiple geographical collection locations, so that a realistic spectrum baseline can be established, over a period of time.

The technical operator can observe, identify, and interpolate signal event patterns accurately, utilizing

Kestrel TSCM[®] Professional Software

“Professional Software for Professional Applications”

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Technical Security Branch (TSB)

TDSA[™] profiling across a Receiver Differential Signal Analysis (RDSA)[™] networked platform.

Oftentimes, the technical approach will uncover IED's and other hazards, in addition to any traditional RF threats.

Signal Hound (SM200A)[™]

The latest anticipated disruptive technology driving the Software Defined Radio (SDR) industry, is soon to be production released.



The Signal Hound SM200A brings renewed promise of a powerful solution to the current frequency bandwidth limitations of the BB60C (9 kHz to 6 GHz) at 24 GHz / Sec @ 10 kHz RBW.

By way of direct comparison, the SM200A (100 kHz to 20 GHz) runs at 160 GHz / Sec at 10 kHz RBW. The “wow” factor, is the speed at 30 kHz RBW, which is a blazing 1 THz / Sec.

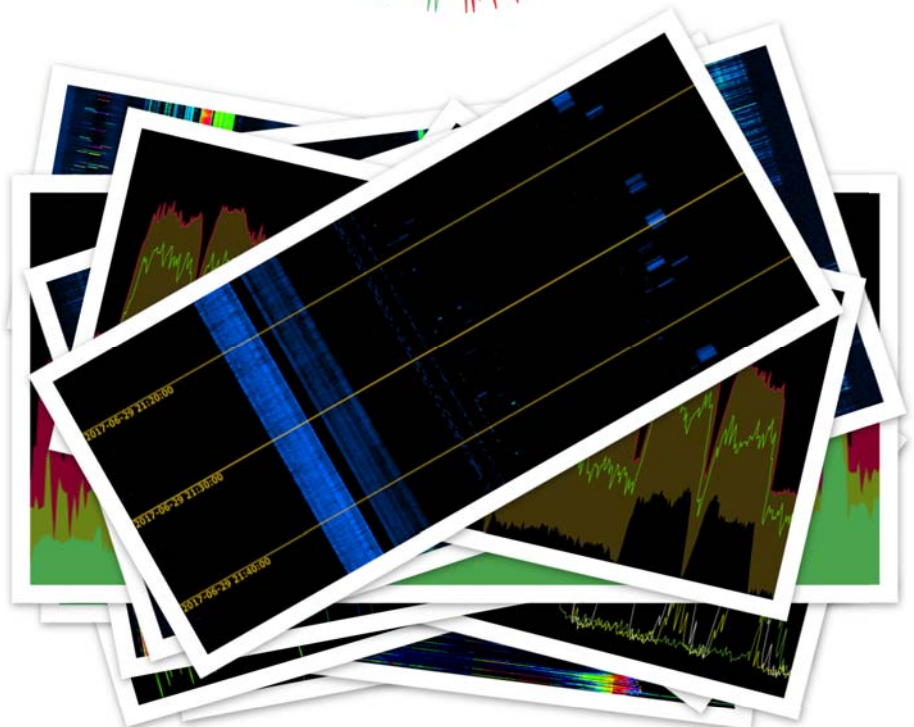
The Real-Time IF Bandwidth of the SM200A is a whopping 160 MHz compared to just 27 MHz on the BB60C search receiver. The BB60C and SM200A are extremely powerful high-performance receivers that can be utilized across a wide range of challenging real-world applications, within the TSCM, SIGINT, and managed Remote Spectrum Surveillance and Monitoring (RSSM)[™] industry.

The preliminary cost of the new SM200A is expected to be in the range of \$11,800.00 USD making it extremely attractive for the commercial and budget minded, government technical security marketplace.

With the Kestrel TSCM[®] Professional Software, Dual Receiver Operation (DRO)[™] support, the ability to utilize the SM200A as a primary search receiver, and hand-off the demodulation and analysis process to a BB60C receiver can be realized.

To learn more about developing an effective Technical Security (TSEC) program, or seek information about training and certification opportunities, please contact [Paul D Turner](#), TSS TSI

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



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