

**"Canadian Developed  
TSCM Software and  
SDR Receiver  
Combination..."**



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## **Kestrel TSCM™ Professional Software**

### **Signal Intelligence Support System (SISS)™**

Introducing the Kestrel TSCM™ Professional Software, with a Kestrel Support Profile (KSP) for the ThinkRF Corporation WSA5000 Wireless Signal Analyzer (WSA). Kestrel TSCM™ Professional Software is an innovative, and bold new TSCM based approach, taking full advantage of significant, technological advances in Software Defined Radio (SDR) principles. The Kestrel TSCM™ Professional Software is a full featured professional level, RF collection and analysis resource that is packed with operator centric, and work-flow based features and functionality. Kestrel TSCM™ Professional Software is a Canadian innovation, designed and developed by the Technical Research and Standards Group (TRSG) of Professional Development TSCM Group Inc. Our software is available worldwide for use by TSEC professionals, and includes numerous advanced concepts far beyond those currently available, and fully supports a wide range of professional level search receivers and spectrum analyzers. Our Technical Research and Standards Group (TRSG) continues to develop and refine innovative deployment methods, features and functionality. Our ability to adapt and support a wide range of low cost, professional level SDR receiver hardware options, includes the ThinkRF Corporation WSA5000 v4 hardware series up to 27 GHz, with a 10 MHz, or 100 MHz of Real-Time IF BW. ⚡



### **Key Features**

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Offers an integrated SDR Search Receiver, Digitizer, and Signal Analyzer Capability. ⚡

Offers Real-Time Caching and Capture Control of Signals of Interest (SOI) increasing the Probability of Detection (POD). ⚡

100 kHz to 8 GHz, 100 kHz to 18 GHz, and 100 kHz to 27 GHz tuning range options, with a wide 10 MHz, or 100 MHz of Real-Time IF Bandwidth (IF BW). ⚡

Gigabit Ethernet Connectivity for Rx Control, Data Acquisition, and Streaming. ⚡

Ideal for TSCM, managed Remote RF Spectrum Surveillance and Monitoring, SIGINT, COMSEC, COMINT, and other TSEC applications. ⚡

The WSA5000 Wireless Signal Analyzer (WSA) receiver is fully supported by the Kestrel TSCM™ Professional Software, Signal Intelligence Support System (SISS), and is available in single and dual receiver, Rapid Deployment Kits (RDK). ⚡

*The ThinkRF™ WSA5000 Receiver Specifications are Subject to Change Without Notice.*

### **"Innovation is Simply the Beginning..."**

#### **Specification Overview**

**Frequency Range:** 100 kHz up to 27 GHz

**Real-Time Bandwidth:** 10 / 100 MHz

**Probability of Intercept (POI):** 1.02 μs

**Spurious Free Dynamic Range (SFDR):** Up to 100 dBc

**Maximum RF Input Power:** +10 dBm, 0 VDC

**Spectrum Scan Rate:** 20 GHz / 1.39 Sec @ 50 kHz RBW (Kestrel TSCM Professional Software)

**Attenuator Range:** 0 or 20 dB

**Ethernet:** 10 / 100 / 1000

**Power Supply:** +12 VDC

**Power Consumption:** 18 W

**Operating Temperature Range:** 0°C to +50°C

**Enclosure Dimensions:** 269 x 173 x 5 mm (10.58 (L) x 6.81 (W) x 2.15 (H) inches)

**Weight:** 2.7 kg (6 LBS)



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## **Professional Development TSCM Group Inc.**

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## **Kestrel TSCM™**

### **Signal Intelligence Support System (SISS)™**

The WSA5000 Wireless Signal Analyzer (WSA) is manufactured in Canada by ThinkRF™ Corporation, and our Kestrel Support Profile (KSP) allows the WSA5000 to be utilized with the Kestrel TSCM™ Professional Software. Our pre-configured, Rapid Deployment Kits (RDK), include a powerful laptop computer, and are available in single, dual or multiple receiver, ready to deploy systems. The Kestrel TSCM™ Professional Software, is an innovative, industry leading, Canadian technology that is operator centric and work-flow oriented. The Kestrel TSCM™ Professional Software provides full support for the 8 GHz, 18 GHz, and 27 GHz receivers with a 10 MHz, or 100 MHz Real-Time IF BW. ✨

#### **WSA5000-408**

100 kHz to 8 GHz / 10 MHz IF BW

#### **WSA5000-418**

100 kHz to 18 GHz / 100 MHz IF BW

#### **WSA5000-427**

100 kHz to 27 GHz / 100 MHz IF BW



### **Configuration**

#### **Option 1 (Entry Level)**

Our entry level, Rapid Deployment Kit (RDK) is delivered on a 14 inch Dell Alienware Laptop, and pre-configured with the Kestrel TSCM™ Professional Software, with an additional Activation Security Key (ASK) for installation on a backup computer. This RDK includes single or dual receiver configuration (100 kHz to 8 GHz) with 100 MHz IF BW, KestrelPod II™ Portable (UWB-SA) antennas and custom low noise antenna cables all packed in a transit case. ✨

#### **Option 2 (Intermediate Level)**

Our intermediate level, Rapid Deployment Kit (RDK) is delivered on a 17 inch Dell Alienware Laptop, and pre-configured with the Kestrel TSCM™ Professional Software, with an additional Activation Security Key (ASK) for installation on a backup computer. This RDK includes dual receiver configuration (100 kHz to 18 GHz) with 100 MHz IF BW, dual KestrelPod II™ Portable (UWB-SA) antennas and low noise antenna cables all packed in a transit case. ✨

#### **Option 3 (Advanced Level)**

Our advanced level, Rapid Deployment Kit (RDK) is delivered on a 17 inch Dell Alienware Laptop, and pre-configured with the Kestrel TSCM™ Professional Software, with an additional Activation Security Key (ASK) for installation on a backup computer. This kit includes dual receivers (100 kHz to 27 GHz) with 100 MHz IF BW, dual KestrelPod II™ Portable (UWB-SA) antennas and dual low noise antenna cables all packed in a transit case. ✨

*The ThinkRF Corporation™ (WSA5000) Receiver Specifications are Subject to Change Without Notice.*

### **"Innovation is Simply the Beginning..."**

#### **Kestrel TSCM™ Professional Software**

Our Kestrel TSCM™ Professional Software - Signal Intelligence Support System (SISS)™, Rapid Deployment Kits (RDK) are customized to include, any model, and number of WSA5000, or other supported receivers and analyzers. ✨

The Kestrel TSCM™ Professional Software is delivered, pre-configured on a powerful Dell Alienware laptop computer, with your choice of either a 14 inch, or 17 inch high resolution display. ✨

The Kestrel TSCM™ Professional Software fully supports, single, dual and multiple receiver operation, with spectrum and demodulation hand-off across any number and type of supported search receivers and analyzers. ✨

Multiple band allocations are fully supported across multiple supported search receivers. ✨

Our Rapid Deployment Kits (RDK) also include our KestrelPod II - Ultra Wideband Surveillance Antenna (UWB-SA), or any Electro-Metrics™ antenna product (optional). ✨

The ThinkRF Corporation WSA5000 is an ideal hardware platform for RF based TSCM, managed Remote RF Spectrum Surveillance and Monitoring assignments, SIGINT, COMSEC, and other TSEC applications, with both pre-selection and pre-amplifier. ✨

*Contact Our Office for Product Information, Technical Specifications, and Sales.*

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*The WSA5000 is available for purchase directly from Professional Development TSCM Group Inc.*