

**Technical Surveillance Countermeasures (TSCM) has Never been this Easy!**



20150415v104



### Key Features

Fast panorama sweep with up to 1.8 GHz / second across the entire frequency range from 9 kHz to 7.5 GHz. ✈

10 MHz IF spectrum and demodulation with bandwidths from 150 Hz to 500 kHz. ✈

LAN interface for remote control and data output. ✈

The EM100 can be operated with diverse antennas such as broadband Omni-directional and directional antennas. ✈

State-of-the-art digital signal processing for high receiver sensitivity and detection of extremely weak signals, without any loss in processing speed. ✈

Significantly superior receiver sensitivity and signal resolution; compared with conventional analog broadband receivers. ✈

Analog-modulated signals are demodulated directly in the receiver; contents are audible using headphones. ✈

Digitally modulated signals converted to the baseband by means of I/Q demodulation and exported via LAN. ✈

Signal overview and analysis; Automatic detection and classification of signals of unknown modulation. ✈

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

### Specification Overview

Frequency Range:  
9 kHz to 7.5 GHz

Instantaneous Bandwidth:  
10 MHz

IF Demodulation Bandwidths:  
150 Hz / 300 Hz / 600 Hz / 1.5 kHz / 2.4 kHz  
6 kHz / 9 kHz / 15 kHz / 30 kHz / 50 kHz / 120 kHz / 150 kHz / 250 kHz / 300 kHz / 500 kHz

Demodulation Modes:  
AM / FM / PULSE / I/Q  
USB / CW / LSB / ISB / CW

IF Spectrum Display Range:  
1 kHz / 2 kHz / 5 kHz / 10 kHz / 20 kHz  
50 kHz / 100 kHz / 200 kHz / 500 kHz  
1 MHz / 2 MHz / 5 MHz / 10 MHz

Low power consumption for long-term deployment from an autonomous power source. ✈



## **Kestrel TSCM™ Professional Software Signal Intelligence Support System (SISS)™**

Introducing support for the Rohde & Schwarz EM100 Digital Receiver. The Kestrel TSCM™ Professional Software is an innovative and bold new approach, taking full advantage of significant, technological advances in Software Defined Radio (SDR) principles. The Kestrel TSCM™ Professional Software is a recently developed, professional level, RF collection and analysis resource that is packed with operator centric, work flow based features and functionality designed by Professional Development TSCM Group Inc., over a period of 35 years. Our software is available to technical security professionals worldwide. Our software includes numerous advanced concepts far beyond those currently available and supports a wide range of search receivers and spectrum analyzers. Our Technical Research and Standards Group (TRSG) continues to develop innovative deployment methods; enhanced by advanced hardware and software features; and functionality. Our ability to adapt and support virtually any SDR receiver hardware, now includes the R & S EM100 (9 kHz to 7.5 GHz) with a 10 MHz IF BW running at 1.8 GHz / second. ✈

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

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