





Need speed? The OSCOR Blue TSCM Spectrum Analyzer sweeps 24GHz in 1 second quickly detecting electronic surveillance devices.

Built-in auto switching antenna system up to 24GHz (depending on model) means no extra antennas or cables required.

Portable (only 8lbs/3.6kg) quickly locates and analyzes transmitters.



Product specifications and descriptions subject to change without notice. © Copyright Research Electronics International 2009.

Built-in Auto-Switching Antenna System

The OSCOR ${\it Blue}$ includes an integrated Auto-Switching Antenna System covering 100kHz to 24GHz or 100kHz to 8GHz (depending on model)

BUILT-IN 10dB PRE-AMP Improves receiver sensitivity

Trace Analysis for Rapid Detection of Sophisticated Transmitters

- SWEEPS 24GHz IN LESS THAN 1 SECOND at 12.2kHz resolution (approximately 2,000,000 spectrum measurements per second)
- 2 QUICKLY IDENTIFIES LOCALIZED RF ENERGY TRANSMISSIONS OF ALL TYPES OF MODULATION
- 3 **INVESTIGATES AND ZOOMS** in on signals in the spectrum without interrupting full spectrum sweep (24GHz or 8GHz depending on model), assuring that no signals are missed
- 4 MAPS RF TRACES Patented Trace Analysis is built into functionality. Reference and target traces are quickly captured, stored, and compared for complete RF Mapping solution
- 5 GENERATES SIGNAL LISTS Proprietary algorithm quickly produces signal list from captured traces. Provides rapid comparison of signals from room to room

Waterfall Trace Sequence Recorder

- CAPTURES AND RECORDS SIGNAL ACTIVITY IN A PEAK TRACE over time for historical analysis of transmissions
- 2 CAPTURES PEAK TRACES AT 24GHz PER SECOND, traces storage at a rate of 5 second intervals, storage resolution 12.2kHz
- 3 RECORDS FULLY DETAILED TRACE DATA Reconstruct spectrum and then zoom and pan freely within recorded spectrum (recorded spectrum not restricted to screen capture resolution)

Signal Analysis, Classification, and Location

- REAL-TIME FREQUENCY SPECTRUM UPDATE AND DISPLAY WHILE DEMODULATING
- 2 PATENTED DSP CORRELATION for analog signals
- 3 **SIGNAL RANGING** shows distance to analog transmitters for quickly locating threatening signals
- 4 **DIGITAL SIGNALS** easily located based on RSSI level change and near field locating function

Built-in Suite of Demodulators

AUDIO DEMODULATORS

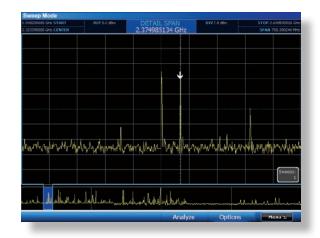
- 1 FM wideband
- 2 FM narrowband
- 3 AM wideband
- 4 AM narrowband
- 5 Sub-carrier
- 6 Single Sideband

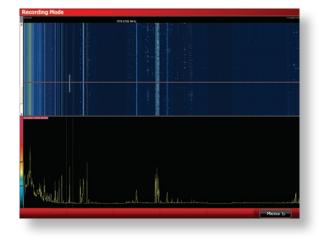
VIDEO FORMATS

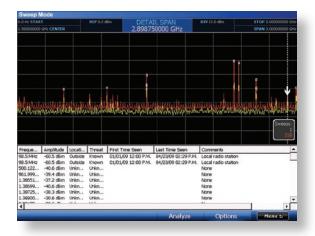
- 1 NTSC, PAL, SECAM
- 2 AM or FM demodulation
- 3 + or synchronization pulse

IF BANDWIDTHS

- 1 Audio: 200kHz, 15kHz, 6kHz, 2kHz
- 2 Video: 13.5MHz, 6.25MHz









TECHNICAL SPECS (subject to change)

OSCOR Blue ADVANTAGES

DIGITAL SPECTRUM ANALYZER DESIGNED SPECIFICALLY FOR COUNTERSURVEILLANCE

EXTREMELY FAST SWEEP TIME 24GHz IN LESS THAN 1 SECOND (depending on model)

INTEGRATED AUTO-SWITCHING ANTENNA SYSTEM 50kHz to 8GHz OR 24GHz (depending on model)

AUTOMATIC PROGRAMMABILITY CONTINUOUSLY SCANS, STORES SIGNALS AND TRACES, AND DETECTS THREAT SIGNALS

ENHANCED TRACE ANALYSIS DETECTS SOPHISTICATED DEVICES SUCH AS FREQUENCY HOPPING AND BURST/PACKET TRANSMITTERS

SIGNAL AND TRACE DATABASE PROVIDES STORAGE AND RECALL OF DETECTED SIGNALS AND SPECTRUM TRACES

> AUDIO ANALYSIS MODE PROVIDES SUITE OF DEMODULATORS

VIDEO DEMODULATOR AND MONITOR PROVIDES VIEWING OF COVERT VIDEO TRANSMITTERS

> ACOUSTIC CORRELATOR CLASSIFIES THREATENING SIGNALS

EASILY LOCATES THREATS PORTABLE DESIGN, ALLOWS FOR THREAT LOCATION

COMPLETE PACKAGE OF SWEEP EQUIPMENT WEIGHS 8LBS (3.6kg), INCLUDING ANTENNAS



455 SECURITY DRIVE ALGOOD TN 38506 USA TEL +1 931.537.6032 800.824.3190 (US ONLY) FAX +1 931.537.6089 www.research-electronics.com **RF SYSTEM** Frequency: 8GHz Model = 50kHz to 8GHz 24GHz Model = 50kHz to 24GHz Average Noise Level (DANL) (25kHz Resolution Bandwidth) Displayed Without Preamp = -100dBm With Preamp = -110dBm SSB Phase Noise at 10kHz: (50kHz - 14GHz) = -80dBc/Hz(14 - 24GHz) = -74dBc/HzSweep Speed: > 24GHz/second Preamp: DC-6GHz = 10dB Attenuation: DC-24GHz = 0dB, -10dB, -20dB, -30dB Dynamic Range: Min/Max Range: 90dB SEDR: 80dB

AUDIO SYSTEM Demodulation Types: AM, FM Filters Sizes: 13.5MHz, 6.25MHz, 200kHz, 12.5kHz, 6kHz, 2kHz Subcarrier Filters: 6.25kHz, 12.5kHz, 200kHz, 1.3MHz Headphone Output (low leakage headphones included) Built-in Speakers

VIDEO SYSTEM Formats: NTSC, PAL, SECAM Demodulation: AM, FM Sync Pulse: + or – Subcarrier Filters: 6.25kHz, 12.5kHz, 200kHz, 1.3MHz

ANTENNA SYSTEM Built in Auto Switching Antenna System: Frequency: 8GHz Model = 100kHz to 8GHz 24GHz Model = 100kHz to 24GHz

INPUTS/OUTPUTS Aux RF In: 50kHz to 8GHz IF Out: 75MHz @ 30MHz BW Baseband Out: 100Hz – 6MHz Expansion: Future Expansion Port

USER INTERFACE Integrated Touch Screen with 8.4" Display Soft Keys and Rotary Optical Encoder USB Port (A type): for peripherals (Keyboard, Mouse) Line In

POWER SUPPLY Universal Power Supply included: 100-240VAC, 50-60Hz Removable Battery: Rechargeable Lithium ion, 2-3 hour runtime

MECHANICAL Dimensions: 12.6in x 11.2in x 3in (32cm x 28.4cm x 7.6cm) Weight with Battery: 8 lbs (3.6 kg) Case Dimensions: 5.4in x 14.9in x 19.5in (13.7cm x 37.8cm x 49.5cm) Loaded Case Weight: 21.0 lbs (9.5kg) Operating Temperature: 0°C to +50°C

