OSCOR Blue

TSCM Spectrum Analyzer

24GHz and 8GHz models available

U.S. PATENTS: 6,397,154; 7,058,530
Additional Patents Pending

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OSCOR Blue

TSCM Spectrum Analyzer

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

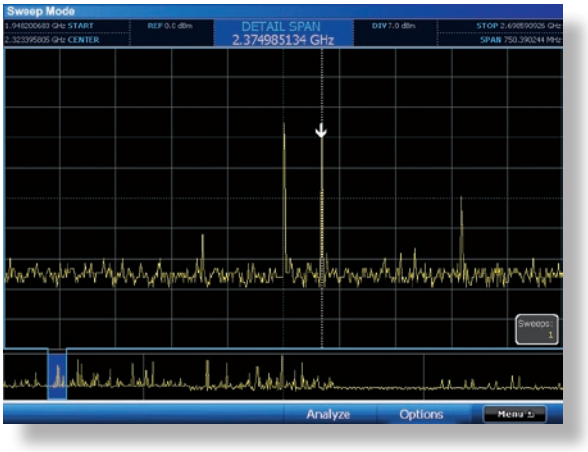
Built-in auto switching antenna system up to 24GHz (depending on model) means no extra antennas or cables required.

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

Built-in Auto-Switching Antenna System

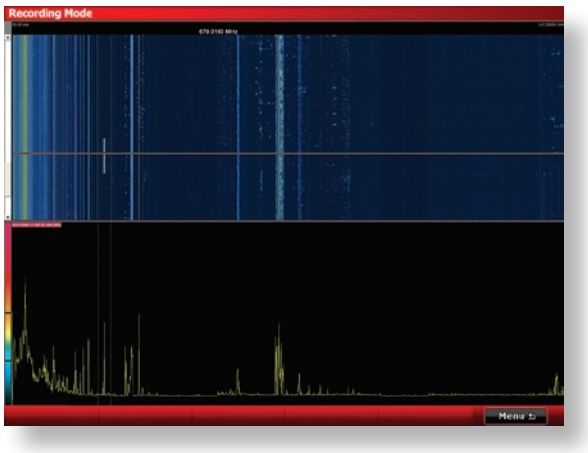
The OSCOR **Blue** includes an integrated Auto-Switching Antenna System covering 100kHz to 24GHz or 100kHz to 8GHz (depending on model)

BUILT-IN 10dB PRE-AMP Improves receiver sensitivity



Trace Analysis for Rapid Detection of Sophisticated Transmitters

1. **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

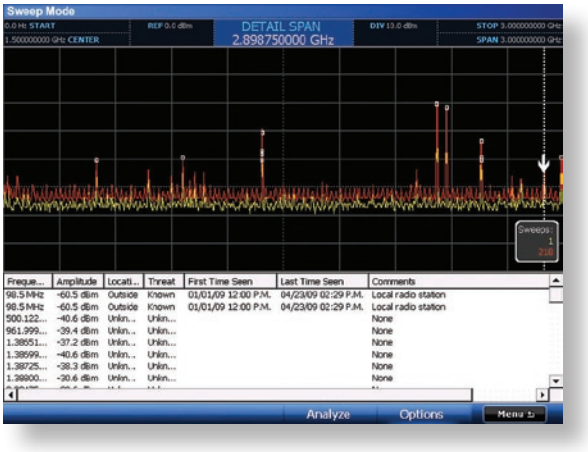


Waterfall Trace Sequence Recorder

1. **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

1. **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

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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

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RF SYSTEM
Frequency: 8GHz Model = 50kHz to 8GHz
24GHz Model = 50kHz to 24GHz
Displayed Average Noise Level (DANL) (25kHz Resolution Bandwidth)
Without Preamp = -100dBm
With Preamp = -110dBm
SSB Phase Noise at 10kHz:
(50kHz – 14GHz) = -80dBc/Hz
(14 – 24GHz) = -74dBc/Hz
Sweep Speed:
> 24GHz/second
Preamp: DC-6GHz = 10dB
Attenuation: DC-24GHz = 0dB, -10dB, -20dB, -30dB
Dynamic Range:
Min/Max Range: 90dB
SFDR: 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