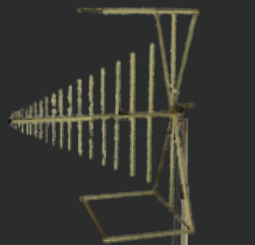


SPECTRE

SOFTWARE PROGRAMMABLE EW & CEMA
THREAT REPRESENTATIVE ENVIRONMENT



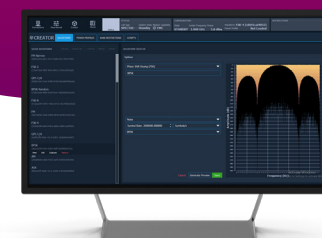
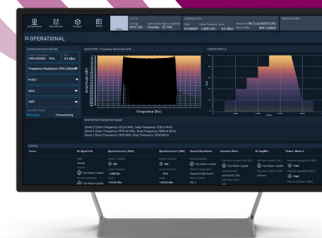
What is SPECTRE?

Software Programmable EW & CEMA Threat Representative Environment (SPECTRE) is a complex threat environment simulator that provides the capability to reproduce known military threat signals in the HF, VHF, and UHF frequency bands including cellular (CDMA, GSM, TDMA, 3G, 4G, LTE) as well as GPS-specific threats.

SPECTRE produces and transmits realistic representations of military threat signals used for both laboratory (injected signal) and outdoor testing (over-the-air-transmission).

Waveform(s)/Signal(s) are selectable from a comprehensive library of known threats using an intuitive graphical user interface (GUI).

SPECTRE provides a lab variant version that supports bench top lab testing and a field variant that transmits threat signals in open air range testing.



RF Output Configuration

Frequency Range _____ 20 MHz – 3 GHz
Channels _____ x1, x2, or x3
Switchable Output _____ Load / Antenna / Test
RF Power Output _____ 100 Watts Linear / 250 Watts Saturated

Signals & Waveforms

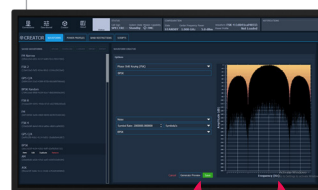
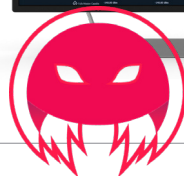
Instantaneous Bandwidth _____ Configurable up to 100 MHz
Signal Types _____ AM, FM, PM, FSK, PSK, GNSS, BPSK, QPSK, CW, Comb
Digital Signal Generation _____ File Playback / Digital IQ Stream

CONTINUED ON BACK



Key Highlights

SPECTRE allows the end user control over the amplitude, phase, and frequency of transmitted signals. This is done by adjusting common modulation parameters. Once a waveform is configured, the end user can generate a spectrum preview. Multiple waveforms can be generated and saved to file as a list of configurable parameters.



The intuitive SPECTRE UI has two primary modes, Creator and Operational. In Creator mode, the user generates waveforms, power profiles, and band restrictions. In Operational mode the user selects the pre-defined waveforms and profiles to transmit. The system automatically notches any signal that overlaps with restricted bands, allowing users to sweep power onto a system under test.

CONTINUED FROM FRONT

Status, Monitor & Log

Active Feedback _____ Configuration and Status
Channels _____ Forward / Reverse / VSWR
Switchable Output _____ Small Signal Waveform Verification
RF Power Output _____ Event & Audit Logs to TXT and CSV

Size, Weight & Power

Control Case _____ 9U / 180.2 lbs.
Low Band Amplifier Case _____ 7U / 146.9 lbs.
Mid Band Amplifier Case _____ 7U / 146.9 lbs.
High Band Amplifier Case _____ 7U / 181.3 lbs.
Power Conditioner Case _____ 3U / 126.1 lbs.
Accessories Case _____ 21.9" x 14.5" x 51" / 79.2 lbs.
AC Power Input _____ 120 VAC @ 4644 Watts

Contact Us

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