

MODEL 527[™] RADAR SIGNAL SIMULATOR

PROVIDING CONFIDENCE AND RELIABILITY THROUGH TOTAL SPECTRUM TEST AND TRAINING SOLUTIONS.

The Model 527 radar signal simulator is a handheld, portable device designed to determine the status of electronic warfare (EW) radar warning receiver (RWR) systems on operational aircraft through free-space radiation functional testing. The Model 527 delivers organizational-level flight line verification of the operational status of an aircraft and its EW systems. Operational readiness and threat recognition are verified from antenna to cockpit display. This includes antennas, transmission lines, radomes, cockpit displays and controls. The performance of avionics systems (B-kit) and transmission paths (A-kit) can be verified pre-launch.



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MODEL 527 RADAR SIGNAL SIMULATOR

Number of Emitters

Eight, fully independent in

frequency, pulse width, pulse

CHARACTERISTICS & BENEFITS



Frequency Range 500 MHz to 18 GHz (base); 28 GHz to 40 GHz millimeter wave (mmwave); 10 MHz to 500 MHz (optional)



Minimum Pulse Width 50 ns

Frequency Accuracy



repetition and scan model



• +/-0.001 percent for single output; +/-5 MHz for multiple frequencies (base)

• +/-0.002 percent for single output; +/-20 MHz for multiple frequencies (mmwave)

Scan Modulations Fully programmable advanced modulations including circular, sector, spiral, conical and others



Operating time Greater than six hours with two batteries installed



Radiated Power -35 dBm minimum at 40 feet (base); -42 dBm at 40 feet (mmwave)



Remote Control Handheld controller or Ethernet



Temperature -40 to 55°C (AC power) -20 to 55°C (battery power)



Weight Less than 27 lb with two batteries, less than 25 lb with one battery

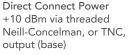


Frequency Switching Speed One µsec



Frequency Modulations Bi-phase, chirp, jitter and hop







BB-2590/U battery (one or two), or 110 to 240 V alternating current, 50 to 60 Hz

Operating Power



Vertical Integration: JSECST[™] and A²PATS[™]

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The Model 527 can perform end-of-runway and walk-around testing up to 120 feet from the aircraft, depending on the receiver. Antennas and transmission paths mounted high on the aircraft can be verified without direct coupling. Our advanced threat modeling software allows threat emitters to be developed offline and stored on removable PCMCIA media, enabling the system itself to be unclassified when powered down with disk removed. The Model 527 supports up to eight simultaneous, multiplexed emitters, allowing the development of complex test cases and the verification of threat priority in the RWR system. Once emitters or groups of emitters are developed, test personnel can progress through them easily.

> For information within the United States, please contact: **Textron Systems Electronic Systems** 124 Industry Lane Hunt Valley, MD 21030 1-800-655-2616 or 410-666-1400 electronicsystems@textronsystems.com

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