L3HARRIS™
FAST. FORWARD.

AN/PLM-4

Radar Signal Simulator (RSS)

The L3Harris AN/PLM-4 RSS is a user programmable test set for fixed-wing and helicopter aircraft, as well as surface and submarine naval vessels. The unit generates pulse and scan modulated radio frequency (RF) signals.

The L3Harris AN/PLM-4 is an advanced, portable, cost-effective radar simulator that tests radar warning receivers, electronic surveillance measures and electronic countermeasures systems. The RSS is designed to test the detection and identification capabilities of fixed- and rotary-wing aircraft, surface ships, submarines and land vehicles against the latest hostile threats.

Using internal antennas, the RSS radiates toward the system under test (SUT), allowing the user to evaluate the SUT operation or perform diagnostics. The unit is self-contained and operates from internal batteries or external AC power. Its small size allows a single person to hand-carry and operate it.

The RSS can be used for testing pods, on-board self-protection electronic countermeasures systems, radar warning receiver (RWR) systems and electronic warfare support measures systems. With the RSS remote terminal, the user can be seated in the aircraft under test and visually determine the operability of the RWR by observing the SUT displays. The remote terminal allows the user to control the functions of the RSS. It can also be connected directly to the SUT for testing and troubleshooting, bypassing the antennas. The unit can be used as an end-of-runway or dockside pre-mission tester, with scenario capability allowing for rapid testing.

Pre-Flight and Maintenance Electronic Warfare Test Set

- Over 2,000 AN/PLM-4 units deployed worldwide
- Fully user programmable
- Small size supports forward-deployment testing

SYSTEM SPECIFICATIONS

- Frequency range: Fully tunable 500 MHz to 18 GHz, options from 50Mhz to W-band
- Pulse repetition interval types: Jitter, stagger and guidance triplets
- Fully-programmable scan: Standard scan patterns and advanced waveforms
- Programming: Menu driven from the keyboard or PC software (supplied)
- Power: Universal AC, auto-switching AC input or battery (built in charger)
- Power saving feature: Operator selected energy saver mode
- Batteries: Two removable, extended life Lithium-Ion batteries
- Emitter memory: Rugged all-weather removable emitter memory module
- Carrying harness: OSHA compliant design
- Remote operation:
  - Remote handheld keyboard for operation up to 1,000 feet (300m)
  - Optional RF remote for end-of-runway crew trigger
- Scenario operation: Up to 100 emitters for end-of-runway testing
- Accessory case: Includes extra set of batteries, battery charger, extra emitter memory module, Remote Terminal, etc.
- External synchronization: Allows for true multibeam generation with multiple RSS units
- Environmental: Designed to MIL-T-28800; Class C; Type II
- Operational temperature range: -40°C to +55°C (-40°F to +131°F)
- Weight: 20 pounds (9.07 kg)

FEATURES

- Programmable emitter parameters
- Emitters programmed via front panel or remote terminal
- Lightweight and one-man portable
- Internal battery power
- Built-in or external battery charger
- Remote operation for crew station testing up to 1,000 feet from the unit
- Threat library stored on removable media
- Extensive built-in test for easy repair
- Small unit footprint (1 cubic foot) conducive to rapid deployment

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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