Overview

The 3515LSR (Life Support Radio) Test System is the next generation test platform for life support radios, including the AN/PRC-112G Transceiver. The 3515LSR Test System consists of the widely deployed 3515AR Radio Test Set and custom designed RF isolation chamber, as well as custom cabling for the supported radios.

The 3515LSR Test System is a self-contained, compact, transportable, automated test system and is used for operational verification testing of life support radio systems: 406 MHz COSPAS/SARSAT beacons, 121.5 MHz beacon and 243 MHz beacons.

Operational Testing without False Alerts

One of the keys to testing life support radios is minimizing the radiated RF, ensuring that the 406 MHz COSPAS/SARSAT Beacon does not trigger a false alert or expose users to enemy detection. To accomplish this, the 3515LSR has a RF isolation chamber which provides the user with better than 70 dB of isolation, enabling testing in the field without the risk of triggering a false beacon event.

Peace of Mind with your Lifeline

Housed within the 3515LSR Test System is the 3515AR Test Set. The 3515AR Test Set is a complete communication service monitor, packaged in a rugged magnesium alloy case, weighing less than 8 lbs. Not only do you have the ability to support all of your life support and SAR beacon applications, but you have the flexibility to test the full functionality of the AN/PRC-112G, including SATCOM, DME, Quickdraw® Interrogator, and VHF & UHF 2-way communications operation.
3515LSR Test System

Oscilloscope

- **Source**
  - DVM
  - Audio In
  - Demod

- **Display Level**
  - -50 to +50 V

- **Horizontal**
  - 0.5 ms/div to 0.1 sec/div

- **Vertical**
  - 10 mV to 10 V per div

Timebase (Standard)

- **Temperature Stability**
  - ±0.15 ppm

- **Aging**
  - ±500 ppb (year 1) ±300 ppb/year (after year 1)

- **Warm-up time**
  - 5 min.

Audio Frequency Counter

- **Range**
  - 15 Hz to 20 kHz

Audio Frequency Level Meter

- **Sources**
  - AUDIO IN
  - DVM

- **Input Level**
  - Audio In: 10 mV rms to 30 V rms
  - DVM: 10 mV rms to 30 V rms

Environmental/Physical

- **Overall Dimensions**
  - 9.1 in. x 11.2 in. x 2.8 in.

- **Weight**
  - Less than 8 lbs. (3515 unit)

Environmental/Temperature

- **Storage**
  - -51°C to +71°C storage

- **External DC Operation**
  - -20°C to +55°C (battery removed, contingent upon applied RF power over time)

3515LSR Test System and Standard Supplied Accessories

- 3515AR Radio Test Set - 2 MHz - 1 GHz
- RF Shield Enclosure
- External DC Power Supply
- AC Power Cable
- Accessory Kit, Qty. 2
- Foam Insert
- 3515LSR System Manual, CD
- 3515AR Getting Started Manual, Paper
- 3515AR Operation Manual, CD
- 3515LSR Script Software, CD
- Accessory Bag
- Accessory Bag Card
- RF Cable, BNC-M to N-M
- 3515LSR Interface Cable Assy.
- PRC-112G Battery Adapter
- PRC-112G Matching Antenna
- Earphone Adapter
- Comm Breakout Box

**EXPORT CONTROL:**
This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States. This applies to the 3515LSR Test System and Standard Supplied Accessories.

GENERAL DYNAMICS
Mission Systems

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