



AN/USM-708

Multi-Function Test Set

P/N: 90 000 108
NSN: 4920-01-541-2764

Description

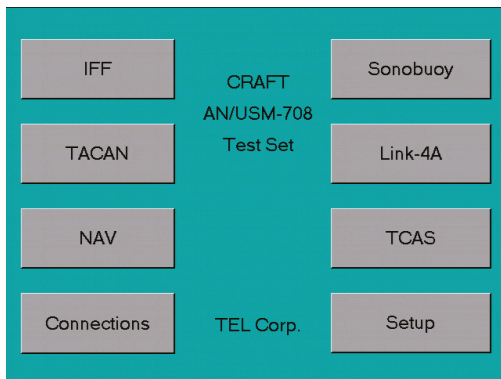
The AN/USM-708 is the next generation in ground support test equipment. Based on entirely new up-to-date technology and digital architecture; the AN/USM-708 is a leap forward in precision testing of the following systems:

- Transponder: Modes 1, 2, 3/A, C, 4 Mode S, EHS (Enhanced Surveillance) and Mode 5
- Interrogator: Modes 1, 2, 3/A, C, 4, Mode S, Mode 5, TCAS & ETCAS, Shipboard Processor
- ADS-B (Automatic Dependent Surveillance Broadcast) TX & RX
- **Navigation: VOR, ILS, LOC, GS, MB, TACAN, VSWR**
- Sonobuoy
- Link-4
- ADF (Automatic Direction Finder)



NOTICE
This commodity it is intended for is subject to the International Traffic in Arms Regulations and may not be exported or transferred to a foreign party, either in their original form or after being incorporated into other end-items, without the prior written consent of the U.S. Department of State

The AN/USM-708 Multi-Function Test Set provides unsurpassed reliability and ruggedness designed by an established and well recognized company with 50 years in the design and manufacture of aviation ground support and bench test equipment.



The AN/USM-708 large 4.75" x 3.5" color LCD (NVG compatible) screen and surrounding soft-keys and keyboard provides easy and quick access to a multiple of test screens menus, and display options affording single man operation, instant results, and a host of pre-programmed and manually variable parameters to meet the most demanding requirements for testing of airborne avionic and communication equipment.

Additional features include:

- Over-the-Air and Direct Connect methods
- Rugged and durable MIL-PRF-28800F, Class 1 package
- Remote Firmware upgrades via the internet/CD-Rom
- Extensive Built in Diagnostics
- Expandable capabilities (HAVEQUICK, Link-11, 16, 22, SINGARS and communications planned)

Features

The AN/USM-708 is designed in a compact, waterproof and durable case. Instant one button GO/NO test can be performed based on stored parameters. The user also has the capability to manually select and vary parameters individualized for each system. All accessories are neatly stored in the Test Set cover and the battery charger is included.

Mode 4 and Mode 5 U.S. Department of Defense (DoD) AIMS International Program Office Approved

Utilizes the KIV-78 appliqué for Mode 5 Interrogator and Transponder tests (not included).

Ideally suited for any temperature or region due to its self calibrating software.

Built-in battery charger and three (3) front panel replaceable "Lithium-Ion" batteries (included).

Transponder Mode Specification

Transponder testing can be performed in an "AUTO" mode based on stored criteria or "Manual" Mode offering individually selected tests and detailed results.

Modes Tested:

- Mode 1
- Mode 2
- Mode 3A
- Mode C
- Mode S
- ELS (Elementary Surveillance)
- EHS (Enhanced Surveillance)
- ADS-B TX and RX
- Mode 4
- Mode 5
- EOR (End of Runway)

*Direct Connect and hand held antenna options.

Link-4 Data Link System

Provides testing to verify the performance of Link-4A aircraft V-Series and R-Series Messages in support of:

- Aircraft Carrier Landing System (ACLS)
- Air Traffic Control (ATC)
- Carries Inertial Navigation System (CAINS)

TACAN Mode Specification

TACAN Receiver/Transmitter Tests covering all 126 X/Y channels in modes:

- Ground to Air (G/A)
- Air to Air (A/A)
- Air to Air Beacon (A/A BCN)

Direct Connect and hand held antenna options.

Interrogator/TCAS Mode Specification

Interrogator testing can be performed in an "AUTO" mode based on stored criteria or "Manual" Mode offering individually selected tests and detailed results.

Modes Tested:

- Mode 1
- Mode 2
- Mode 3A
- Mode C
- Mode S
- Mode 4
- Mode 5
- TCAS/ETCAS
- Shipboard Processor Test
- OMNI/TAPER
- VSWR (Voltage Standing Wave Ratio)

*Direct Connect and hand held antenna options.

Navigation Testing

Thorough testing and transmission of simulated navigation signals for:

- VOR, LOC, GS, ILS, and Marker Beacon
- UHF - ADF (Automatic Direction Finder) 225-400MHz
- VSWR (Voltage Standing Wave Ratio)

Accessories

- Standard 2-year Warranty
- Operators Manual
- Direct Connect Cable
- Neck Strap
- AC and DC Power Cord
- Omni Antenna
- Telescoping Antenna
- Antenna Handle
- Calibrated Directional Antenna
- Antenna Extension Cable

Sonobuoy

Observe listen and verify Sonobuoy signals received from Command Signal Generator (CSG) and Command Function Selection (CFS) format information.

Modes Tested:

- OMNI/45 Hz
- Noise
- BT-TEMP
- LOFAR
- DIFAR
- VLAD
- DICASS

Monitor received tones via the built-in head set jack.

Accessories

Packaging.....	MIL-PRF-28800F, Class 1
Size.....	16.25 W x 11.5 H x 11.0 D
Weight.....	20 lbs. (operating) 29.5 lbs (accessories and Lid)
Operating.....	Temperature -40° to +55° C
Battery Type.....	Lithium Ion (3)
Battery Life.....	8 Hours at 20% Duty Cycle
Battery Charger.....	Supplied
Power requirements.....	110-240 VAC, 50/60 Hz 28 VDC ±20%, 20W (No Crypto)
Antenna Configuration.....	Case Mountable Tripod Mounted Hand-Held
Color.....	White