

AEROFLEX

A passion for performance.

AM/FM/SSB

Motorola SmartZone™ and SMARTNET™

P25

P25 Trunking

P25 Phase II - TDMA

LSM

DMR/MOTOTRBO™

NXDN™

dPMR

TETRA

TEDS

ARIB-T98

EDACS

LTR®

MPT 1327



Land Mobile Radio Test Systems

Aeroflex Radio Test Sets



Today's family of Aeroflex Radio Test Sets is the result of more than 50 years of experience in providing superior radio test solutions. Through strategic acquisitions, Aeroflex radio test sets bring a strong history of performance from the icons of radio test including; Marconi Instruments, IFR Systems and Wiltek.

Now, enhanced with research and development into new technologies and new platforms, Aeroflex delivers the widest range of Radio Test Sets for today's digital Land Mobile Radio communication systems. These proven systems have achieved worldwide acceptance, making Aeroflex the undisputed leader in Land Mobile Radio test technology.

Aeroflex radio test sets are used everywhere from R&D labs, production test and field service. Extremely durable, of the highest quality and easy to use, Aeroflex radio test sets are used worldwide for public safety applications, including mission critical police and emergency communications systems. From direct power measurement of 150 W transmitters to testing receiver digital BER sensitivity, Aeroflex radio test sets are in demand because of their unique ability to deliver high accuracy and ease of use.

Every Aeroflex radio test set is reliable, has an excellent price/performance ratio and represents an outstanding test value. Aeroflex understands that today's digital communications markets move quickly. You can count on Aeroflex's expertise to rapidly respond to not only changes in the market, but also to your specific requirements.





3920B

The Most Complete, Most Accurate and Most Flexible PMR Test Platform

The 3920B is the latest in advanced analog and digital radio communications test. The undisputed leader for P25, TETRA, MOTOTRBO™, DMR, NXDN™, dPMR and ARIB T98 test applications, the 3920 is a highly accurate platform onto which software updates expand the measurement and signaling capabilities for communications systems that utilize advanced digital modulation and protocols.

Leading the way into the future, the 3920B now supports P25 Phase II TDMA and TEDS (TETRA Phase II) operation.

Designed to improve your technical efficiency, the Aeroflex 3920B supports an internal programming environment, known as Auto-Test II, that allows automatic test and alignment options to be installed. Auto-Test II options are radio family specific. While controlling the radio, the 3920B provides complete test and alignment of either portables or mobiles in minutes! Operator errors caused by, for example, accidental selection of incorrect filters, are removed since the manufacturer specific test settings for each radio are preset in the 3920B.

Current Auto-Test II options available are:

- Motorola ASTRO®, ASTRO 25 and APX™ Series radios
- Motorola MTP-850 TETRA radios
- MOTOTRBO radios
- Harris P7300/XG-75/5500 Series radios
- EF Johnson ES Series radios
- BK DPHX5102X Series radios
- TIA/EIA-603 FM land mobile radio test software
- Technisonic Type 1 and Type 2 radios
- Kenwood P25 TK-5X10G Series radios
- Kenwood 5x20 Series radios
- Kenwood NXDN Series radios
- Relm KNG Series radios

COMING SOON:

- Hytera DMR Series radios

As future mobile radio technologies change and market needs expand, the 3920B is your one test platform that will stand the test of time.

Type: AM/FM/SSB/Digital

Input Power: 125 W max

Frequency Range: 2 MHz to 2.7 GHz

Systems Supported: FM, AM, P25, P25 Phase II TDMA, HPD, DMR, dPMR, NXDN, SmartZone and SMARTNET, TETRA, TEDS, LSM

Analog/digital PMR & Cellular



3550R

Portable, Rugged Radio Test System with Color Touch-screen Display

The Aeroflex 3550R is the industry's first 1 GHz hand-held, rugged radio test system with a large color display and touch-screen operation. At 8.3 lbs. and packaged in a magnesium alloy case, the Aeroflex 3550R is the industry's toughest and most portable radio test set. Combining many features of a benchtop radio test set with the added capabilities of VSWR and Distance to Fault analysis, the 3550R is perfect for testing radio transceivers, whether on the bench or in remote locations.

Designed to meet the needs of avionics and land mobile radio tests, the 3550R provides fast, reliable measurements of the radio's transmitter and receiver parameters. New to the operation of the 3550R is the capability to test the latest narrowband radio systems including P25, DMR and NXDN.

The 3550R is perfect for testing radio transceivers, whether on a bench, installed in a vehicle or in some remote location. It also has the power to test the cables and antennas, making it the only hand-held radio test set that can test all the components of an installed radio system.



2305

Stabilock TETRA Test Set

Designed to support mission critical TETRA systems, the 2305 supports service measurements for TETRA base stations and radio terminals. The 2305 provides a wide output level range for sensitivity and blocking measurements, plus a high level input range for high power base stations.

Aeroflex's 2305 Stabilock is software defined with updates available for testing either TETRA radio terminals, base stations, or both.

In order to be able to test as close as possible to real life operation, the Aeroflex 2305 Stabilock TETRA Test Set supports the testing of all major communication modes in modern TETRA networks: Trunked Mode (TMO), Direct Mode (DMO, optional), SDS and LIP. Depending on the type of MS under test, the receiver sensitivity can be measured precisely by either Single Ended or Loopback BER in TETRA Test (TT) mode. Paging sensitivity provides an easy work around if a MS cannot be put into test mode.

Type: AM/FM/Digital

Input Power: 20 W or up to 150 W with external attenuator

Frequency Range: 2 MHz to 1 GHz

Systems Supported: FM, AM, P25, DMR, NXDN, dPMR, ARIB-T98

Type: TETRA

Input Power: 100 W

Frequency Range: 350 to 475 MHz; 800 to 960 MHz

Systems Supported: TETRA MS, TETRA BS, TETRA DMO



2945B/2948B

The Industry Standard in Analog Radio Test

With unparalleled features and performance, this lightweight and portable platform provides a tried and true solution for alignment and verification of analog based two-way radio systems. With everything you need in a single convenient package, this radio test set is the perfect tool for both field and bench applications. All models include a low noise full span spectrum analyzer with oscilloscope and sensitive receiver for off air testing to 1.05 GHz. The rugged and lightweight (25 lbs.), field-proven design also supports use of external DC or a convenient internal battery for applications where AC power is not available.

The 2945B provides everything you need for conventional AM/FM/SSB analog radio systems tests, including harmonic and power profile analysis. If your application requires support for trunking, the 2945B also supports LTR, EDACS and MPT-1327. The 2948B is available with all these features plus a low phase noise signal source for advanced analog testing. Additionally, the 2948B supports an avionics option for testing IL, VOR, Marker Beacons, and SELCAL.



STI Field Test 7

Geographic Signal Coverage

STI Field Test 7 is automated signal measurement and analysis software that can be interfaced with most Aeroflex Radio Test Sets, particularly the 3920 Series and the 3550 Series Test Sets. STI Field Test 7 consists of a GPS receiver, measurement and analysis software, and drivers for the Aeroflex Radio Test Sets, allowing you to utilize your laptop PC to integrate Field Test System that meets your drive test requirements. The types of signal measurements taken are limited only by the capabilities of the RF measurement instrument used. This unique feature ensures a long and useful life for your STI system. From digital P25 or Tetra BER to analog SINAD and signal strength. STI Field Test 7 is the automated field measurement and analysis kit for your compatible test set.

Type: AM/FM/SSB

Input Power: 5 mW to 150W

Frequency Range: 400 kHz to 1.05 GHz

Systems Supported: FM, AM, EDACS, LTR, MPT1327, POCSAG, SSB, Avionics

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.