

Product Capabilities

Radio Test Sets

3920B Digital Radio Test Set



- The most comprehensive software defined test solution on the market today
- Low phase noise: -110 dBc/Hz at 10 kHz offset
- 10 MHz - 2.7 GHz operation
- Full AM, FM, SSB analog measurements
- P25, SmartZone™ and SMARTNET™ trunking test applications
- P25 Phase II conventional test capabilities
- Support for DMR (MOTOTRBO™), NXDN™, dPMR and ARIB STD T-98 technologies
- Mobile, base and direct mode TETRA test functions
- High performance spectrum analyzer, dual channel oscilloscope and analog meters
- Automatic test and alignment operation for select Motorola, Harris, Kenwood radios and many more

Building on a reputation of engineering excellence, the 3920B offers high performance tests equal to more expensive, stand alone instruments. With advanced digital signal processing technology and rugged construction, the 3920B provides the most flexible, cost effective radio test system available. Featuring test capabilities for both analog and digital radios, the 3920B meets the need for testing both your legacy analog systems as well as the latest narrowband digital standards.

The 3920B also features one button automatic test and alignment capabilities for many P25 radios, including the Motorola ASTRO® 25 Series radios, enabling greater efficiency of test resources than ever before. Simply connect the test cable to the radio, press the Test & Align button and you are free to do more important things.

8800 Analog and Digital Radio Test Set



- High performance, economical test set
- Industry's largest (12") color touch-screen display
- FM and AM transmit and receive tests
- P25, DMR, NXDN, dPMR, and ARIB T98 digital tests
- Distribution, Constellation, Eye Diagram digital plots
- DMR Burst Profile Plot with analysis mask
- Digital audio quality verification tests
- Configurable Frequency Lists for fast Tx and Rx tests
- Presets for quick set up of analog and digital tests
- Auto-Test and Alignment
- 500 W "Internal" In-Line Power Meter with 4% accuracy
- Fast VSWR, Return Loss, and Distance-to-Fault measurements
- Multi-language support
- Spectrum Analyzer with <-140 dBm (typ) noise floor
- Weighs 17 lbs (7.7 kg)
- 2.5+ hours internal battery

The Aeroflex 8800 is a true hybrid portable design, providing the portability and ruggedness of a field-level test set, yet offering the features and accuracy of bench-level test solutions. Lightweight, equipped with an internal battery, and 30 G MIL-PRF-28800F Class 3 shock rating, now test professionals will no longer compromise portability for critical test features; and vice versa. Advanced features ranging from Auto-Test to digital modulation analysis plots to even an internal 500 W (4% accuracy) in-line power meter are all available within a one-box solution!

Aeroflex Radio Test Set Products

- 3920B Series Digital Radio Test Set
- 3550R Digital Radio Test System
- 8800 Analog and Digital Radio Test Set
- 8150 TETRA AirAnalyzer
- 2305 TETRA Test Set
- 2945B Communications Service Monitor

A passion for performance.

3550R Digital Radio Test System



- 2 MHz - 1 GHz operation
- 9" color touch-screen display
- Multi-language support
- FM/AM transmitter and receiver tests
- P25, DMR, NXDN, dPMR, and ARIB T98 digital radio test options
- Spectrum analyzer with < -140 dBm (typ) noise floor
- Tracking Generator for fast duplexer tuning
- VSWR and DTF testing on antennas and cables
- Weighs less than 8.3 lbs. (3.75 kg)
- 4.5 hour internal battery
- Operation temperature range: -20 to +55 C for 3550R;
- Rugged magnesium alloy construction with MIL PRF 28800F specifications

The Aeroflex 3550R is the industry's first hand-held, color touch-screen radio test system. 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 for both analog and today's latest narrowband radio systems. At less than 8.3 lbs. and packaged in a cast magnesium alloy case, the Aeroflex 3550R is truly a rugged and portable radio test set. Featuring full radio test set functions with up to 4.5 hours of battery life, the 3550R is ready to be used anywhere.

2945B Communications Monitor



Aeroflex's 2945B Communications Monitor is a compact, lightweight and rugged instrument that allows laboratory standard measurements to be conducted in the field.

Some of the 2945B's benefits are:

- Rugged lightweight package
- Full span spectrum analyzer with "live" look and listen
- Tracking generator with full offset tracking
- Accurate power measurements to 150W
- 5W protection on all RF ports as standard
- Color transfective superfast LCD with rapid refresh rate for easy monitoring and real time adjustment
- 50 kHz DSO (Digital Storage Oscilloscope) with anti-aliasing
- Transient and harmonic analysis

The 2945B has the LTR[®] trunked radio and repeater test option available. This option provides the radio test professional with a cost effective solution for testing LTR repeaters and radios. Designed to provide LTR signaling and parametric analysis, this option provides the user with a simple interface found in other trunked test options for these service monitors, such as EDACS and MPT-1327.

8150 TETRA AirAnalyzer



Unique Specifications

- Frequency range: 100 MHz - 1000 MHz
- Two RF Receivers
- Receivers Bandwidth: 10 MHz each
- RSSI Measurement Sensitivity: -124 dBm
- Input Power: 30 dBm
- Lightweight: <5.5 kg

TETRA Analysis Tests

- Interoperability testing between mobiles and base stations
- Quality of Service testing, such as MCCH load analysis and call statistics
- Identify system issues caused during installation or system expansion
- Locate and identify interference issues
- Analyzer voice quality
- Verify system security features such as authentication and air interface encryption
- Create TETRA system coverage maps

Two powerful and highly sensitive measurement receivers form the heart of the 8150 TETRA AirAnalyzer. These receivers pick up the bidirectional communication between TETRA mobile stations and a base station. All time slots in the downlink and uplink of a selectable channel are analyzed simultaneously. The TETRA AirAnalyzer decodes the data received on the radio channel in real time and forwards them to a PC for further processing. Various PC applications can analyze the data under different aspects. The analysis can be performed either online or offline, using the data received and stored at a later date.

2305 Stabilock TETRA Test Set



Ensure safe and reliable communication through testing!

Aeroflex's 2305 Stabilock is a mainframe dedicated to testing TETRA radio terminals and base stations. Service personnel use the Stabilock to ensure the quality of the transmitter and receiver.

The Stabilock with its mobile and base station options comes with many benefits:

- All the service measurements for TETRA base stations and radio terminals
- Wide output level range for sensitivity and blocking measurements
- Wide input level range even for high power base stations
- Low investment cost
- Serves network operators and user groups such as public safety and security, transportation services, utilities and industrial companies

The 2305 Stabilock performs all the relevant TETRA measurements. It is easy to set up and use; results can be stored and forwarded to a PC for traceability. With less than 8 lbs. (4 kg) weight, the Stabilock is easy to carry and use in the field, particularly with its optional, exchangeable batteries.

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