

# Feature and Benefit Summary

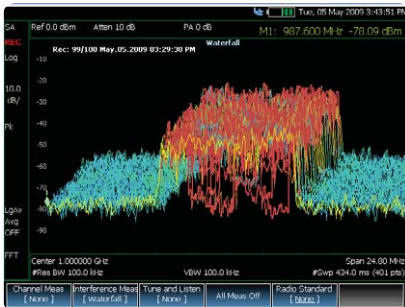
# FieldFox



Perform and view return loss and distance to fault measurements at the same time



Locate interference signals



Waterfall display



Channel power measurement

## Comprehensive measurement capabilities

### Cable and antenna test

- Return loss, VSWR
- Distance to fault

Return loss/VSWR measurements allow you to evaluate the impedance matching performance of the feed line across the frequency range of interest.

Distance to fault measurements help you identify the faults along a feed line. Use these measurements to precisely pinpoint the location of damaged or degraded antennas, connectors, amplifiers, filters, and duplexers, etc.

FieldFox provides up to 1001 data-point resolution to help accurately locate faults and extend measurement distance.

### Transmission test

- Cable loss
- Insertion loss
- Amplifier gain

Transmission test is used to accurately measure cable loss, insertion loss (filters), and amplifier gain (tower mounted amplifier). FieldFox offers two-port transmission magnitude measurements with up to 72 dB dynamic range.

### One-port cable loss

For already-installed cables, FieldFox accurately measures cable loss via the RF Out port. The instrument measures actual cable loss, without the need for additional computation.

### CalReady at test port

Each instrument is calibrated at the RF Out port. When you power up the instrument, it is ready to make accurate measurements such as one-port cable loss, VSWR, return loss, and DTF at the test port.

### QuickCal

The industry's-first and only built-in calibration system allows you to calibrate the cable and antenna tester without carrying a calibration kit with you all the time. It provides worry-free accuracy and excellent repeatability. **QuickCal** also corrects drift errors caused by temperature changes during instrument operation.

### Mechanical calibration

Open-short-load (OSL) is standard in FieldFox. There are four calibration kits defined in the instrument.

### Spectrum analysis

The built-in spectrum analyzer allows you to scan up to 6 GHz and detect internal and external interference. FieldFox can detect signals as low as -148 dBm up to 6 GHz, with phase noise of -88 dBc at 10 kHz, and a third order intercept (TOI) better than +18 dBm.

### Interference analyzer

Spectrogram and waterfall displays allow you to detect and monitor intermittent interference signals. The interested signals can be recorded and played back.

### Power suite measurements

Built-in spectrum analyzer provides one-button power suite measurements such as; channel power, ACPR and OBW for LTE, WiMAX, WCDMA, TD-SCDMA, cdma2000 and GSM measurements.

### AM/FM tune and listen

The built-in spectrum analyzer can demodulate AM/FM modulated signals and play the audio via speaker or headset. This feature is very useful to identify types of signals.

### Power meter

Makes accurate true average power measurements without bringing a power meter along. The state-of-the-art Agilent USB power sensors provide measurements up to 24 GHz.

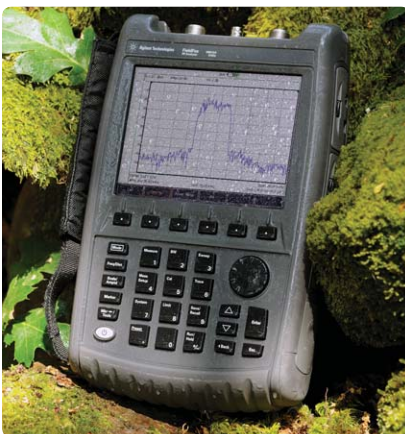
# FieldFox



Make accurate true average power measurements without bringing along a power meter



Transflective display makes it easy to read measurements in direct sunlight



Water resistant chassis withstands wide temperature ranges and humid environments

## Comprehensive measurement capabilities *continued*

<b>Smith chart</b>	Smith charts can be used to display impedance matching characteristics in cable and antenna systems.
<b>Vector voltmeter</b>	The large vector voltmeter display makes it easy to match two or more device's electric length and ensure signals that travel on different devices have the same delay.

## Field-proof usability

<b>Transflective display and backlit keys</b>	The display is designed for easy viewing in indoor and outdoor settings and in direct sunlight and darkness. Access different display modes via softkeys.
<b>Task-driven key design</b>	Front-panel keys are grouped to easily and naturally perform standard field measurements.
<b>Speaker and headphone jack</b>	Used for future demodulated audio signal capability.
<b>One-button measurement</b>	Provides task-driven user interface to simplify the measurements.

## Rugged design

<b>Water-resistant chassis, keypad and case design</b>	The case is made from polycarbonates that withstand wide temperature ranges and salty, humid environments.
<b>RF connector protection</b>	A specially designed connector bay protects the RF connectors from damage during drops or other external impacts.
<b>Dust-free design</b>	With no vents or fans in the case, FieldFox resists dust for better equipment reliability.
<b>Meets tough environmental standard</b>	Meets MIL-PRF-28800F Class 2 specification.
<b>Gasketed doors</b>	Protects instrument interface from moisture.

## Modern connectivity

<b>USB 2.0 ports</b>	Two USB 2.0 ports can be used to transfer files.
<b>LAN port</b>	Used to transfer data in and out of the instrument.
<b>SD flash card slot</b>	Use as a data storage device.
<b>FieldFox Data Link software</b>	Transfer data remotely from the instrument to a PC for back-office applications such as baseline analysis and report generation.