

Keysight Technologies

FieldFox Handheld Analyzers

4/6/6.5/9/14/18/26.5 GHz



Carry precision with you.



RF and microwave combination analyzers

Base: Cable and antenna analyzer

Key options:

- Spectrum analyzer
- Vector network analyzer
- Vector voltmeter
- Built-in power meter
- Pulse measurements

All FieldFox options are available and upgradeable.



RF and microwave vector network analyzers (VNA)

Base: Transmission/reflection VNA

Key options:

- Full two-port S-parameters
- Two-port QuickCal
- Time domain
- Cable and antenna analyzer
- Vector voltmeter
- Built-in power meter
- Pulse measurements



Microwave spectrum analyzers

Base: Spectrum analyzer

Key options:

- Full-band tracking generator
- Full-band preamplifier
- Interference analyzer and spectrogram
- Reflection measurements
- Built-in power meter
- Pulse measurements

Achieve more in the field

Every piece of gear in your field kit has to prove its worth. Measuring up and earning a spot is the driving idea behind Keysight Technologies, Inc. FieldFox analyzers.

Carry the precision of our microwave models: they deliver Keysight-quality measurements wherever you need to go. Boost your readiness with an RF unit: every operating mode is flexible enough to meet the needs of novices and experts alike. Count on the durability of handheld analyzers designed to withstand your toughest working conditions.

Take cost-effective flexibility into the field

Configure FieldFox with the capabilities you need: cable and antenna analyzer, vector network analyzer, spectrum

analyzer or the all-in-one combination analyzer. Any and all fit into the ergonomic, MIL - rugged 3.0 kg (6.6 lb) package.

Make Precise FieldFox measurements on your iOS device

FieldFox's remote control capability option and Remote Viewer iOS application enable you to remotely control and monitor your FieldFox right from your iPhone or iPad.

With a wireless LAN or cellular broadband data connection using your iPhone or iPad, FieldFox can now be placed in areas where you do not wish to stay long due to extremely harsh or unsafe conditions. Additionally, if one technician or engineer has trouble making a measurement or determining the source of a problem, another can step in to remotely troubleshoot and solve the problem.

Use FieldFox where and when you need it

Rugged

- Dust-free design with no fans or vents
- Water-resistant
- 3-year warranty ensures confidence
- Viewable in direct sun/darkness

MIL-spec durability

- Meets MIL-PRF-28800F Class 2
- Type tested and meets MIL-STD-810G, Method 511.5, Procedure I requirements for operation in explosive environments
- Meets IEC/EN 60529, for protection from dust and water

Portable

- Compact and light weight (3.0 kg or 6.6 lbs.), long battery life (3.5 hrs)
- Wide operating temperature (–10 to +55 °C, 14 to 131 °F)

Leverage our legacy of measurement leadership

With a FieldFox analyzer, you're carrying the precision of Keysight's industry-standard benchtop analyzers. By providing levels of consistency not available in any other handheld instruments, FieldFox ensures confidence in your results.

To bring consistent and repeatable network analyzer measurements to field work, FieldFox leveraged extremely accurate algorithms from Keysight's high-end VNAs. With an emphasis on portability, we simplified calibration by adding built-in calibration standards, so you can make measurements in the field without carrying cal kits.

To enhance spectrum analysis, we've leveraged the PowerSuite measurements from Keysight spectrum and signal analyzers. This lets you make fast, accurate one-button power measurements of channelized communication systems with ease and confidence. The InstAlign capability allows you to instantly make accurate power measurements in the field, even when temperature fluctuates during a measurement.

FieldFox industry innovations

Vector network analyzer
Dynamic range up to 100 dB

Spectrum analyzer
Absolute amplitude accuracy ± 0.5 dB

Cable and antenna analyzer
Precise measurements without a cal kit

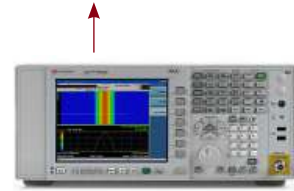


2012 FieldFox microwave handheld analyzer

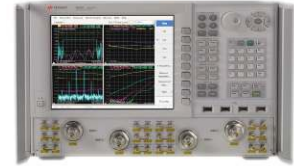
FieldFox microwave analyzers are the handheld extension of the best network and spectrum analyzers.

"FieldFox's result is almost identical to my PNA. I want one of these for all of my engineers."

- Senior calibration engineer from spacecraft research and development center.



2009 PXA X-Series signal analyzer



2007 PNA-X vector network analyzer



2001 PSA spectrum analyzer



2000 PNA vector network analyzer



1984 8510A vector network analyzer



1978 HP 8566B spectrum analyzer



Deploy cost-effective versatility with the user-friendly FieldFox

Reduce your instrumentation costs with a single, multi-function handheld that covers RF and microwave frequencies. From routine maintenance to in-depth troubleshooting, every operating mode is equipped to accelerate your work in the field.

Cable and antenna analyzer

Make measurements quickly with CalReady and QuickCal—without carrying a cal kit.

- Line sweeping
- Distance-to-fault (cables and connectors)
- Return loss

Vector network analyzer

Get precise S-parameters that agree with results from trusted HP/Keysight benchtop vector network analyzers.

- Full two-port VNA with four receivers
- All four S-parameters, magnitude and phase
- Simultaneous display of all four S-parameters
- Guided Calibration Wizard
- Time domain with gating

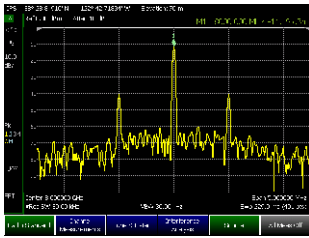
Spectrum analyzer

Get specified amplitude accuracy instantly with InstAlign automatic amplitude alignment—no warm-up required.

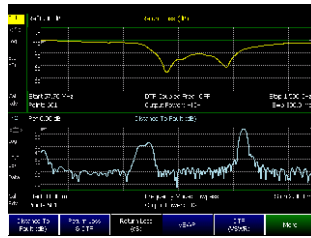
- Full-band preamplifier
- Full accuracy at power-on
- Full-band tracking generator
- Interference analyzer with spectrogram and record/playback
- Channel power measurements
- Pulsed signal analysis with FFT time gating

“The technology Keysight has developed is simply superior.”

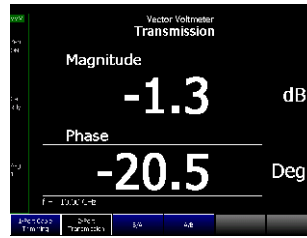
- Major aerospace/defense prime contractor



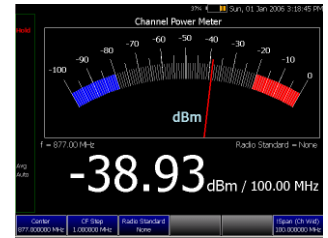
Spectrum analysis



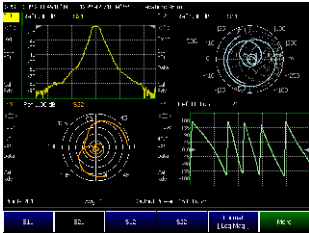
Cable and antenna analysis



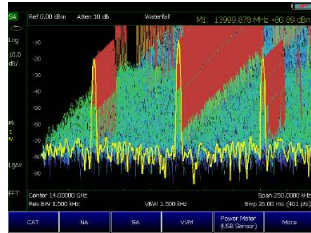
Vector voltmeter measurements



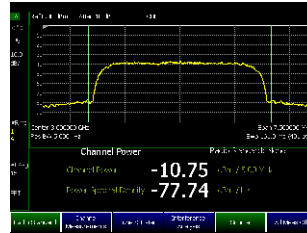
Built-in power meter



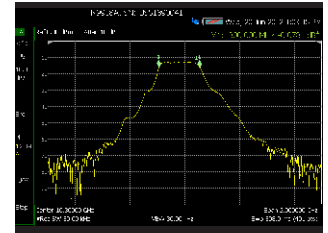
Vector network analysis



Interference analysis



Channel power measurement



Tracking generator

Get a wide range of precise measurements in the field

Available functions	RF and microwave combination analyzers	RF and microwave vector network analyzers	Microwave spectrum analyzers
Cable and antenna analysis	■	■	
Vector network analysis	■	■	
Spectrum analysis	■		■
Interference analysis	■		■
Full-band preamplifier	■		■
Full-band source	■		■
Full-band tracking generator, independent source	■		■
Spectrum analyzer time gating	■		■
Built-in power meter	■	■	■
Pulse measurements	■	■	■
Vector voltmeter	■	■	
Built-in GPS	■	■	■
Remote control with iOS device	■	■	■

Pick up FieldFox for its ergonomics

Vertical "portrait" orientation makes FieldFox comfortable to hold, and the keypad layout lets you easily operate it with your thumbs

Bright, low-reflective display and backlit keys enable easy viewing in darkness or direct sunlight

Large keys are easy to operate, even when wearing gloves

One-button measurements simplify complex setups and ensure quick, accurate results

The intuitive user interface is designed for the work you do every day, enabling measurements in just a few key presses

11.5"
(292 mm)

7.4"
(188 mm)

Weighing just 3.0 kg (6.6 lbs), FieldFox is easier to carry than similar analyzers

"I really like the packaging, and you've done a lot to simplify the controls and menus."

- DoD technical lead for military contracts

... and depend on its durability

TOP



Specially designed connector bay protects connectors from damage due to drops or other external impacts

RIGHT SIDE



LEFT SIDE



Carry precision with you.

Every piece of gear in your field kit had to prove its worth. Measuring up and earning a spot is the driving idea behind Keysight’s FieldFox analyzers. Carry the precision of our microwave models: they deliver Keysight-quality measurements wherever you need to go. Boost your readiness with an RF unit: every operating mode is flexible enough to meet the needs of novices and experts alike. And count on the durability of handheld analyzers designed to withstand your toughest working conditions. Add FieldFox to your kit—and see how it measures up.

Related literature	Number
<i>FieldFox Combination Analyzers, Technical Overview</i>	5990-9780EN
<i>FieldFox Microwave Spectrum Analyzers, Technical Overview</i>	5990-9782EN
<i>FieldFox Microwave Vector Network Analyzers, Technical Overview</i>	5990-9781EN
<i>FieldFox Handheld Analyzers, Data Sheet</i>	5990-9783EN
<i>FieldFox Handheld Analyzer, Configuration Guide</i>	5990-9836EN
<i>FieldFox N9912A RF Analyzer, Technical Overview</i>	5989-8618EN
<i>FieldFox N9912A RF Analyzer, Data Sheet</i>	N9912-90006
<i>FieldFox N9923A RF Vector Network Analyzer, Technical Overview</i>	5990-5087EN
<i>FieldFox N9923A RF Vector Network Analyzer, Data Sheet</i>	5990-5363EN

Download application notes, watch videos, and learn more: www.keysight.com/find/FieldFox

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A personalized view into the information most relevant to you.

Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight’s commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

www.keysight.com/go/quality

Keysight Technologies, Inc.

DEKRA Certified ISO 9001:2008

Quality Management System

Keysight Channel Partners

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Get the best of both worlds: Keysight’s measurement expertise and product breadth, combined with channel partner convenience.

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