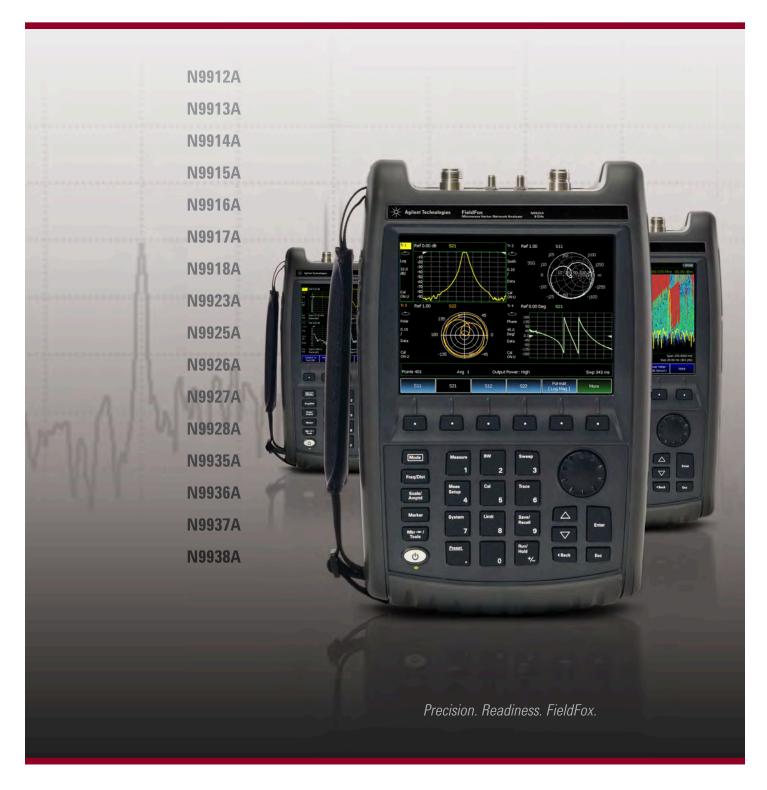


Agilent FieldFox Handheld Analyzers

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





Precision. Readiness. FieldFox.



RF and microwave combination analyzers

Base: Cable and antenna analyzer

Key options:

- · Spectrum analyzer
- · Vector network analyzer
- Vector voltmeter
- Built-in power meter

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



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

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 Agilent's FieldFox analyzers.

Carry the precision of our microwave models: they deliver Agilent-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.

Easily update and extend your initial configuration with additional functionality in the future.

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

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 Agilent'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 Agilent'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 Agilent 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

absolute amplitude accuracy ± 0.5 dB

Cable and antenna analyzer

precise measurements without a cal kit



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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/Agilent 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

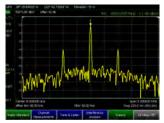
Spectrum analyzer

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

"The technology Agilent has developed is simply superior."

- Major aerospace/defense prime contractor



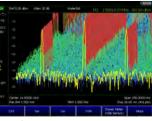
Spectrum analysis



Vector network analysis



Cable and antenna analysis



Interference analysis



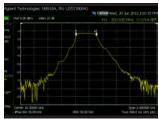
Vector voltmeter measurements



Channel power measurement



Built-in power meter



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	✓	\checkmark	
Vector network analysis	\checkmark	\checkmark	
Spectrum analysis	\checkmark		\checkmark
Interference analysis	\checkmark		\checkmark
Full-band preamplifier	\checkmark		\checkmark
Full-band source	\checkmark		\checkmark
Full-band tracking generator, independent source	\checkmark		\checkmark
Built-in power meter	\checkmark	\checkmark	\checkmark
Vector voltmeter	\checkmark	\checkmark	
Built-in GPS	\checkmark	\checkmark	\checkmark

Pick up FieldFox for its ergonomics



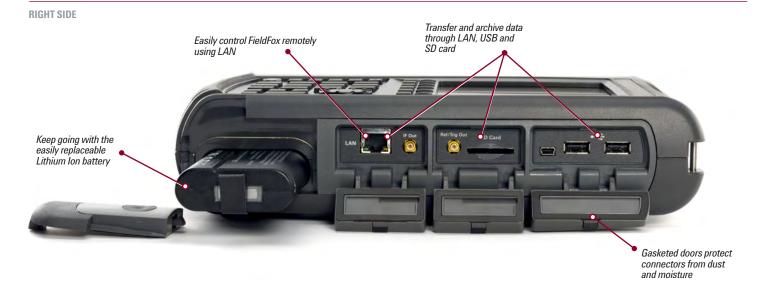
"I really like the packaging, and you've done a lot to simplify the controls and menus."

- DoD technical lead for military contracts

...and depend on its durability

T_OP





LEFT SIDE



Precision. Readiness. FieldFox.

Every piece of gear in your field kit had to prove its worth. Measuring up and earning a spot is the driving idea behind Agilent's FieldFox analyzers. Carry the precision of our microwave models: they deliver Agilent-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
FieldFox Combination Analyzers, Technical Overview	5990-9780EN
FieldFox Microwave Spectrum Analyzers, Technical Overview	5990-9782EN
FieldFox Microwave Vector Network Analyzers, Technical Overview	5990-9781EN
FieldFox Handheld Analyzers, Data Sheet	5990-9783EN
FieldFox Handheld Analyzer, Configuration Guide	5990-9836EN
FieldFox N9912A RF Analyzer, Technical Overview	5989-8618EN
FieldFox N9912A RF Analyzer, Data Sheet	N9912-90006
FieldFox N9923A RF Vector Network Analyzer, Technical Overview	5990-5087EN
FieldFox N9923A RF Vector Network Analyzer, Data Sheet	5990-5363EN

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



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Agilent Advantage Services is committed to your success throughout your equipment's lifetime. To keep you competitive, we continually invest in tools and processes that speed up calibration and repair and reduce your cost of ownership. You can also use Infoline Web Services to manage equipment and services more effectively. By sharing our measurement and service expertise, we help you create the products that change our world.

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For other unlisted countries: www.agilent.com/find/contactus Revised: January 6, 2012

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