





Get Keysight-quality Microwave Measurements in the Field

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 Technologies, Inc. FieldFox microwave analyzers. They're equipped to handle routine maintenance, in-depth troubleshooting and anything in between. Better yet, FieldFox delivers Keysightquality microwave measurements wherever you need to go.

On land, sea and air, FieldFox is ready for a wide range of applications: satellite communications, microwave backhaul, military communications, radar systems, and more. In harsh conditions and hard-toreach locations, FieldFox delivers precise results that are consistent with those you'd see on a benchtop analyzer. To get you out of the elements sooner, the taskdriven user interface will help you finish the job faster.

FieldFox spectrum analyzers give you and your budget—more flexibility: configure an instrument with just spectrum analysis today and add a fullband tracking generator and preamplifier and other capabilities in the future.

Key Measurements

Spectrum analyzer

- Unprecedented amplitude accuracy (± 0.5 dB) with InstAlign¹—no warm up required
- Interference analysis with spectrogram and record and playback
- Superior spur-free dynamic range and phase noise (–111 dBc/Hz at 10 kHz offset)
- Tracking generator, independent source, and preamplifier covering the full frequency range
- 5 kHz to 26.5 GHz

Tracking generator and built-in independent signal source

- CW, CW coupled, and tracking
- Flat output power across whole frequency span, in 1 dB steps
- 30 kHz to 26.5 GHz



Spectrum analyzer



Add caption?????

With FieldFox InstAlign, internal amplitude alignments occur automatically as environmental conditions change, without any user intervention.



Add the World's Most Precise Handheld Microwave Analyzer to Your Kit



Built-in power meter

- Easy to view analog and digital display
- ± 0.5 dB accuracy with InstAlign
- 5 kHz to 26.5 GHz

Power meter using a USB power sensor

- Measure peak power and average power
- -60 to +44 dBm (sensor dependent)
- 9 kHz to 40 GHz (frequency range sensor dependent)



dBm

-8.50

dBm

Pulse measurements using a USB peak power sensor

- Measure peak power, average power and peak to average ratio
- Pulse profile characterization with gating
- 50 MHz to 40 GHz (frequency range sensor dependent)



Designed for You and the Work You Do Everyday

Carry FieldFox wherever you need to go

- Kit friendly 3.0 kg or 6.6 lbs
- Large buttons are easy to operate, even when wearing gloves
- Field swappable battery lasts up to $3\frac{1}{2}$ hours
- Non-slip rubber grip securely fits in your hands and won't slide off the hood of your vehicle
- Vertical "portrait" orientation makes it easy to hold and operate at the same time

Field-proof usability for better answers in less time

- Bright, low-reflection display and backlit keys enable easy viewing in direct sunlight or darkness
- Intuitive user interface is designed for your workflow, enabling measurements in fewer key presses
- One-button measurements simplify complex setups and ensure quick, accurate results with confidence
- 3-year warranty ensures field confidence —especially in harsh environments



Transflective display makes it easy to read measurements in direct sunlight



Large buttons make it easy to perform spectrum analysis measurements—even with gloves on



Rugged Enough to Meet MIL-Specs

- Completely sealed instrument enclosure provides measurement stability in harsh environments
- Specially designed connector bay protects RF connectors from damage due to drops or other external impacts (designed to withstand 4' drop on concrete surface on all 6 faces)
- Water-resistant chassis, keypad and case withstand wide temperature ranges and salty, humid environments
 - Case withstands shock and vibration
 - Wide operating temperature -10 to +55 °C (14 to 131 °F)
 - Wide storage temperature
 -51 to +71 °C (-60 to 160 °F)
- Meets MIL-PRF-28800F Class 2 requirements
- Type tested and meets MIL-STD-810G, Method 511.5, Procedure I requirements for operation in explosive environments
- Meets IEC/EN 60529 IP53 requirements for protection from dust and water



Dust-free design with no vents or fans helps extend instrument reliability

Pick up FieldFox for its Ergonomics



... and Depend on its Durability and Convenience





Spectrum Analyzer

Spectrum analyzer

In microwave, radar, and satellite communications, and commercial microwave backhaul, engineers are responsible not only for hardware installation and maintenance, but also over-the-air signal quality. They need to regularly monitor for rogue signals and perform signal surveillance.

FieldFox's spectrum analyzer is optimized to excel in the dynamic spectral environment seen commonly in the field. In the field, users face measurement challenges such as the need to detect a low-level signal under strong signal conditions (requiring high dynamic range), or close-in small interference signals (requiring excellent phase noise). FieldFox's superior dynamic range (TOI > +15 dBm), close in phase noise (-111 dBc/ Hz at 10 kHz), and fast sweep time make these challenging tasks easier.

FieldFox's spectrum analyzer also provides a full power measurement suite and complete trace and state control.

Unprecedented amplitude accuracy without instrument warm up–InstAlign

With FieldFox InstAlign, internal amplitude alignments occur automatically as the environmental conditions change, without any user intervention. This provides unprecedented amplitude accuracy up to \pm 0.5 dB for spectrum analysis and power measurements. Better yet, FieldFox provides this accuracy immediately upon instrument turn on—no warm up required.



Monitor the spectrum using the FieldFox analyzers



Spectrum Analyzer

Field strength measurements

To characterize the electric and magnetic fields, the gain and loss of the antenna and cables need to be accounted for. With FieldFox, antenna factors and cable loss data can be loaded using either the front panel or the complimentary Data Link software.

Interference analyzer

Interference can be internal or external, uplink or downlink, and has a direct impact on the Quality of Service of a communication network. FieldFox's interference analyzer is designed to identify interfering signals quickly. Spectrogram and waterfall displays detect intermittent signals or monitor signals over a period of time. Signal traces can be recorded into internal memory or external flash memory devices, and the saved traces can be played back for offline processing. It has excellent dynamic range with very fast sweep times under narrow resolution bandwidths (RBWs).

Independent signal source

FieldFox has a built-in independent signal source, with a frequency range of 30 kHz to 26.5 GHz. The signal source can be tuned to any frequency, independent of the spectrum analyzer frequency. The signal source can be used to create a test signal to measure coverage, antenna isolation, antenna direction alignment, shielding effectiveness or attenuation, transponder and frequency offset device verification, and long cable loss measurement.

IF signal output

FieldFox provides a spectrum analyzer IF output with 25 MHz bandwidth for use as a frequency down-converter, and to perform wideband signal analysis.



Use the internal microwave signal source for transponder testing



Waterfall display makes interference hunting easier



Power Measurements and More

Built-in power meter

By leveraging InstAlign technology, FieldFox is able to make very accurate channel power measurements. The channel bandwidth can be set wide to simulate average power meter measurements. This measurement function provides the flexibility to make user definable channel power measurements with accuracy up to \pm 0.5 dB.

USB power sensor support

FieldFox can connect with the Keysight USB power sensors to make microwave power measurements up to 40 GHz. Using USB peak power sensors, users can measure both the average and the peak power of a modulated signal.

Pulse measurements

FieldFox's pulse measurement option allows users to efficiently characterize pulsed-RF signals such as those used in radar and electronic warfare systems, leveraging the Keysight USB peak power sensors (available in 18 and 40 GHz models). Measurements include peak power, peak to average ratio, and pulse profile parameters such as rise time, fall time and pulse repetition frequency.

Built-in GPS

A built-in GPS receiver provides geolocation tags to measurements. The geo data—time, latitude, longitude, and elevation—can be displayed and saved in data files. In addition to location information, the GPS provides an accurate frequency reference to improve accuracy.

Built-in variable voltage DC bias

FieldFox has a built-in variable voltage DC bias source. The source provides 1 to 32 VDC with maximum current of 650 mA and 8 W maximum power.

The DC bias source can provide DC power to amplifiers under test and bias tower mounted amplifiers (TMA) when engineers need to sweep through the TMA to reach the antenna (bias-tees available separately).



Easily measure power levels using the built-in channel power meter



Use FieldFox to characterize pulses



Use the built-in GPS to obtain geo-location data



Remote control capability with iPad or iPhone

Engineers and technicians can now remotely monitor and control their FieldFox using their iOS device such as an iPhone, iPad, or iPod Touch. FieldFox's Remote Viewer iOS app emulates the front panel of the unit, so users can simply press any FieldFox key right from their iOS device.

The app also allows users to instantly access technical documents such as data sheets.

FieldFox's Data Link software makes report generation and documentation easier

FieldFox's complimentary Data Link software provides data transfer, data definition and report generation. Markers and limit lines can be added to the traces. Cable files and antenna factors can also be loaded using Data Link.

Remote control via LAN and FieldFox programming

FieldFox analyzers are fully SCPI compliant and can be controlled over the LAN.



Control and view your FieldFox via your iPad



Use the complimentary Data Link software to generate reports



Remotely control FieldFox using SCPI over LAN

Specifications in Brief

See the FieldFox Handheld Analyzer Data Sheet for a complete listing of the specifications: http://literature.cdn.keysight.com/litweb/pdf/5990-9783EN.pdf

Spectrum analyzer

The specifications in this section apply to the spectrum analyzer capabilities available in the following models: FieldFox microwave combination analyzers: N9913A, N9914A, N9915A, N9916A, N9917A, N9918A FieldFox microwave spectrum analyzers: N9935A, N9936A, N9937A, N9938A

| Models | Frequency range | |
|----------------|---------------------|-----------------|
| N9913A | 100 kHz to 4 GHz | Usable to 5 kHz |
| N9914A | 100 kHz to 6.5 GHz | Usable to 5 kHz |
| N9915A, N9935A | 100 kHz to 9 GHz | Usable to 5 kHz |
| N9916A, N9936A | 100 kHz to 14 GHz | Usable to 5 kHz |
| N9917A, N9937A | 100 kHz to 18 GHz | Usable to 5 kHz |
| N9918A, N9938A | 100 kHz to 26.5 GHz | Usable to 5 kHz |
| | | |

The spectrum analyzer is tunable to 0 Hz or DC.

The preamplifier covers the full band with nominal gain of 20 dB.

Frequency reference: -10 to 55 °C

| Accuracy | ± 0.7 ppm (spec) + aging ± 0.4 ppm (typical) + aging | |
|--|--|--|
| Accuracy, when locked to GPS | ± 0.025 ppm (spec) | |
| Aging rate | \pm 1 ppm/yr for 20 years (spec), will not exceed \pm 3.5 ppm | |
| Frequency span | Spec | |
| Resolution | 1 Hz | |
| | Spec | |
| Resolution bandwidth (RBW) Range (-3 dB bandwidth) | 10 Hz to 5 MHz Non-zero span: 1, 1.5, 2, 3, 5, 7.5, 10 sequence < 300 kHz, 300 kHz, 1 MHz, 3 MHz, 5 MHz Zero span: 1, 3, 10 sequence | |
| Video bandwidth (VBW) | 1 Hz to 5 MHz Non-zero span: 1, 1.5 ,2, 3, 5, 7.5, 10 sequence Zero span: RBW/VBW ≤ 100 | |

Phase noise: Stability, SSB phase noise at 1 GHz, normalized to 1 Hz RBW

| Offset | Spec (23 ± 5 °C) | Spec (-10 to 55 °C) | Typical (23 ± 5 °C) | Typical (–10 to 55 °C) |
|---------|------------------|---------------------|---------------------|------------------------|
| 10 kHz | –106 dBc | –106 dBc | –111 dBc | –111 dBc |
| 30 kHz | –106 dBc | –104 dBc | —108 dBc | —110 dBc |
| 100 kHz | –100 dBc | –99 dBc | —104 dBc | —105 dBc |
| 1 MHz | –110 dBc | –110 dBc | –113 dBc | –113 dBc |
| 3 MHz | –119 dBc | —118 dBc | —122 dBc | —122 dBc |
| 5 MHz | –120 dBc | –120 dBc | –123 dBc | -123 dBc |

Displayed average noise level (DANL): RMS detection, log averaging, reference level of -20 dBm, normalized to 1 Hz RBW

| Preamp on | Spec (23 ± 5 °C) | Spec (-10 to 55 °C) | Typical (23 ± 5 °C) | Typical (–10 to 55 °C) |
|------------------------------|------------------|---------------------|---------------------|------------------------|
| 2 MHz to 4.5 GHz^1 | —153 dBm | —151 dBm | –155 dBm | –154 dBm |
| > 4.5 to 7 GHz | —149 dBm | —147 dBm | –151 dBm | –150 dBm |
| > 7 to 13 GHz | —147 dBm | —145 dBm | —149 dBm | —148 dBm |
| > 13 to 17 GHz | —143 dBm | –141 dBm | —145 dBm | –144 dBm |
| > 17 to 22 GHz | —140 dBm | —139 dBm | —143 dBm | —142 dBm |
| > 22 to 25 GHz | –134 dBm | —132 dBm | –137 dBm | –134 dBm |
| > 25 to 26.5 GHz | —128 dBm | —126 dBm | –131 dBm | —129 dBm |

| 50 MHz absolute amplitude accuracy: | 50 MHz, verified with input level of 0 to –35 dBm, peak detector, 10 dB attenuation, preamplifier off, 30 kHz RBW, all settings auto-coupled, no warm-up required, –10 to 55 °C |
|-------------------------------------|---|
| | ± 0.3 dB (spec) |
| | ± 0.10 dB (typical) |

Total absolute amplitude accuracy

Verified with input level of –10 dBm. Peak detector, 10 dB attenuation, preamplifier off, 30 kHz RBW, all settings auto-coupled, no warm-up required. Includes frequency response uncertainties.

| | Spec (23 ± 5 °C) | Spec (-10 to 55 °C) | Typical (23 ± 5 °C) | Typical (–10 to 55 °C) |
|----------------------|------------------|---------------------|---------------------|------------------------|
| 100 kHz to 18 GHz | ± 0.8 dB | ± 1.0 dB | ± 0.35 dB | ± 0.50 dB |
| > 18 GHz to 26.5 GHz | ± 1.0 dB | ± 1.2 dB | ± 0.50 dB | ± 0.60 dB |

Third order intermodulation distortion (TOI)

| Two -20 dBm signals, 100 kHz spacing at input mixer, -10 to 55 °C | Spec | Typical |
|---|---------------------|---|
| | At 2.4 GHz, +15 dBm | < 1 GHz, +10 dBm 1 to 7.5 GHz, +15 dBm > 7.5 GHz, +21 dBm |

Tracking generator or independent source

The specifications in this section apply to the tracking generator or independent source capabilities available in the following models: FieldFox microwave combination analyzers: N9913A, N9914A, N9915A, N9916A, N9917A, N9918A. FieldFox microwave spectrum analyzers: N9935A, N9936A, N9937A, N9938A.

| Model | Tracking generator or independent source frequency range |
|----------------|--|
| N9913A | 30 kHz to 4 GHz |
| N9914A | 30 kHz to 6.5 GHz |
| N9915A, N9935A | 30 kHz to 9 GHz |
| N9916A, N9936A | 30 kHz to 14 GHz |
| N9917A, N9937A | 30 kHz to 18 GHz |
| N9918A, N9938A | 30 kHz to 26.5 GHz |

Dynamic range: Typical, -10 to 55 °C

| Frequency | Preamp off | Preamp on |
|------------------|------------|-----------|
| 2 MHz to 2 GHz | 97 dB | 112 dB |
| > 2 to 7 GHz | 93 dB | 108 dB |
| > 7 to 11 GHz | 88 dB | 103 dB |
| > 11 to 18 GHz | 79 dB | 94 dB |
| > 18 to 21 GHz | 71 dB | 86 dB |
| > 21 to 23 GHz | 55 dB | 70 dB |
| > 23 to 25 GHz | 50 dB | 65 dB |
| > 25 to 26.5 GHz | 45 dB | 60 dB |

Built-in power meter, Option 310

The specifications in the sections that follow apply to these FieldFox analyzers: FieldFox microwave combination analyzers: N9913A, N9914A, N9915A, N9916A, N9917A, N9918A FieldFox microwave spectrum analyzers: N9935A, N9936A, N9937A, N9938A

| Models | Frequency range | |
|----------------|---------------------|-----------------|
| N9913A | 100 kHz to 4 GHz | Usable to 5 kHz |
| N9914A | 100 kHz to 6.5 GHz | Usable to 5 kHz |
| N9915A, N9935A | 100 kHz to 9 GHz | Usable to 5 kHz |
| N9916A, N9936A | 100 kHz to 14 GHz | Usable to 5 kHz |
| N9917A, N9937A | 100 kHz to 18 GHz | Usable to 5 kHz |
| N9918A, N9938A | 100 kHz to 26.5 GHz | Usable to 5 kHz |

Amplitude accuracy

| | Spec (23 ± 5 °C) | Typical (23 \pm 5 °C) | Spec (–10 to 55 °C) | Typical (–10 to 55 °C) |
|----------------------|------------------|-------------------------|---------------------|------------------------|
| 100 kHz to 18 GHz | ± 0.8 dB | ± 0.35 dB | ± 1.0 dB | ± 0.50 dB |
| > 18 GHz to 26.5 GHz | ± 1.0 dB | ± 0.50 dB | ± 1.2 dB | ± 0.60 dB |

| General information | |
|---|--|
| Calibration cycle | 1 year |
| Weight | 3.0 kg or 6.6 lbs including battery |
| Dimensions: H x W x D | 292 x 188 x 72 mm 11.5″ x 7.4″ x 2.8″ |
| Environmental | |
| MIL-PRF-28800F Class 2 | Operating temperature Storage temperature Operating humidity Random vibration Functional shock Bench drop |
| MIL-STD-810G, Method 511.5 | Type tested and meets Procedure I requirements for operation in explosive environments |
| Altitude – operating | 9144 m or 30,000 ft (using battery) |
| Altitude – non-operating | 15,240 m or 50,000 ft |
| Complies with European EMC directive 2004/108/EC | IEC/EN 61326–1 CISPR Pub 11 Group 1, class B, Group 1 limit of CISPR 11:203/EN 55011:2007 AS/NZS CISPR 11 ICES/NMB–001 |
| Battery | Lithium ion, 10.8 V, 4.6 A-h, 3.5 hours (typical) |
| Warranty | 3-year warranty standard on all FieldFox instruments |

Configuration Information in Brief

See the FieldFox Configuration Guide for complete information on all FieldFox products and accessories. http://literature.cdn.keysight.com/litweb/pdf/5990-9836EN.pdf

| Model | Description | Test port connector |
|--------|--|--|
| N9935A | FieldFox microwave spectrum analyzer, 9 GHz | Type-N (f) test ports, 50 ohm |
| N9936A | FieldFox microwave spectrum analyzer, 14 GHz | Type-N (f) test ports, 50 ohm |
| N9937A | FieldFox microwave spectrum analyzer, 18 GHz | Type-N (f) test ports, 50 ohm |
| N9938A | FieldFox microwave spectrum analyzer, 26.5 GHz | Type-N (f) test ports, 50 ohm, |
| | | 3.5 mm (m) test ports, 50 ohm (Option 100) |

| Options | Descriptions | Measurements/functions |
|--|---|--|
| Base unit for N9935/6/7/8A analyzers | Spectrum analyzer | Spectrum analysis Channel power (CHP), adjacent channel power (ACP), occupied bandwidth (OBW) AM/FM tune and listen Field strength measurements Frequency marker counter, band power marker Independent source |
| Option 220 | Full-band tracking generator | Stimulus response/response measurements |
| Option 235 | Preamplifier | 20 dB gain nominal |
| Option 236 | Interference analyzer and spectrogram | Spectrogram and waterfall display Record / playback |
| Option 302 | External USB power sensor support | |
| Option 307 | GPS receiver (receiver built-in, external antenna required) | Geo location information Lock internal reference to GPS |
| Option 309 | DC bias variable-voltage source | +1 to 32 VDC for external bias-tee and other devices |
| Option 310 | Built-in power meter | Built-in power measurement, using the built-in receiver, without a power sensor |
| Option 320 | Reflection measurements (return loss, VSWR) | Cable and antenna analysis |
| Option 330 | Pulse measurements | Requires Keysight USB peak power sensor |
| Option 030 | Remote control capability | Remote viewing and control using iPhone, iPad, or iPod Touch |



Spectrum analysis



Vector network analysis



Cable and antenna analysis



Interference analysis





Channel power measurement





Tracking generator

FieldFox Analyzers

| FieldFox | RF & microwave combination analyzers | Microwave vector network analyzers | Microwave spectrum analyzers |
|---|---|---------------------------------------|------------------------------|
| Model number | N9913/4/5/6/7/8A | N9925/6/7/8A | N9935/6/7/8A |
| Maximum frequency range | 4, 6.5, 9, 14, 18, 26.5 GHz | 9, 14, 18, 26.5 GHz | 9, 14, 18, 26.5 GHz |
| Cable and antenna analyzer | • | • | VSWR and reflection |
| Vector network analyzer | • | • | |
| Spectrum analyzer, Interference analyzer | • | | • |
| Tracking generator, Independent source | • | | • |
| Vector voltmeter | • | • | |
| Built-in power meter | • | • | • |
| Power meter with USB sensor | • | • | • |
| Pulse measurements | • | • | • |
| Remote control using iOS device | • | • | • |

Accessories

The accessories shown here are a subset of the available accessories. For a complete list, visit www.keysight.com/find/n9910x



Accessories

The accessories shown here are a subset of the available accessories. For a complete list, visit www.keysight.com/find/n9910x

N9910X-860 Fixed attenuator

- 40 dB
- 100 W



N9910X-870 Extra battery

types Try SCGR (septidual for the second secon

N9910X-880 Soft transit case

- Comes standard with each FieldFox
- Includes backpack and shoulder straps



N9910X-881 Hard transit case

- FieldFox fits inside hard transit case



N9910X-820 Directional antenna



N9910X-821 Telescopic whip antenna



Carry precision with you.

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| Related literature | Number |
|--|-------------|
| FieldFox Handheld Analyzers, Brochure | 5990-9779EN |
| FieldFox Combination Analyzers, Technical Overview | 5990-9780EN |
| FieldFox 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.keysight.com/find/FieldFox



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Three-Year Warranty



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For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

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| Switzerland | 0800 805353 |
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| United Kingdom | 0800 0260637 |

For other unlisted countries: www.keysight.com/find/contactus (BP-09-04-14)



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