

Keysight N9912A FieldFox RF Analyzer

The world's most integrated RF analyzer



Key features

1. Connector covers help keep dust out
2. Anti-glare 6.5 inch LCD display with LED backlight
3. Convenient side strap makes it easy to hold and carry
4. Task-driven keys are grouped to easily perform standard measurements
5. Portrait design and large buttons for easy operation – even with gloves on
6. Dedicated marker keys for quick marker function access
7. Backlit keypad
8. Easily accessible battery compartment
9. LAN port for fast data transfer, and SCPI programming
10. D flash card slot for additional data storage
11. USB ports for convenient data transfer and GPS receiver

Key measurements – seven-in-one

- Cable and antenna test, distance-to-fault, return loss, cable loss
- Vector network analysis with Smith chart display, S21, S11, time domain
- Vector voltmeter/HP 8508A replacement
- Spectrum analyzer, CHP, ACPR, OBW, field strength measurements
- Interference analyzer, spectrogram, waterfall, record and playback
- Independent source/tracking generator
- Power measurements with USB sensor
- Built-in channel power measurements, without external sensor
- Pulse measurements

FieldFox key specifications

Function	Description
Cable and antenna analyzer	
Frequency	2 MHz to 6 GHz
Speed	Less than 1.5 ms per point, up to 1001 points
Directivity	> 42 dB
Dynamic range	72 dB
Spectrum analyzer	
Frequency	100 kHz to 6 GHz, usable to 5 kHz
Speed	750 ms (span: 20 MHz) RBW: 3 kHz, VBW: 3 kHz, 1 second full span (6 GHz)
DANL	-148 dBm
Phase noise	-88 dBc at 10 kHz
TOI	-96 dBc, +18 dBm
Internal storage	Minimum 16 MB, up to 1000 traces
External storage	1 x micro SD slot and 2 x USB 2.0
Connectivity	2 x USB 2.0; 1 x mini USB; 1 x LAN
Display	Bright 6.5" color anti-glare LCD
Environmental	Meets MIL-PRF-28800F Class 2 specification
Temperature	Operating: -10 °C to +55 °C, Non-operating: -51 °C to +71 °C
Internal battery	Lithium Ion, 4 hours operating time. Replace easily in the field without tools.
Dimensions	11.5" X 7.4" X 2.8" (292 mm X 188 mm X 72 mm)
Weight	Lightweight 6.2 lbs/2.8 kg including battery

The FieldFox base unit consists of a 4 GHz cable and antenna analyzer. The following accessories are included as standard:

- AC/DC adapter
- Soft carrying case
- Battery
- Quick Reference Guide

Key differentiators

- Integrated QuickCal calibrates without a calibration kit.
- Immediate calibration with CalReady.
- 50 percent faster than traditional handheld instruments.
- Superior dynamic range (96 dB) and sensitivity (-148 dBm) in the spectrum analyzer mode; high dynamic range ideal for interference detection.
- Easy-to-use, task driven user interface.

FieldFox options

Model No.	Description
N9912A	FieldFox RF analyzer
Option 010	Network analyzer time domain (requires Option 303)
Option 030	Remote control capability
Option 104	4 GHz cable and antenna analyzer. This option is standard in the base price.
Option 106	6 GHz cable and antenna analyzer
Option 110	Transmission measurement (for insertion loss or gain measurement)
Option 111	QuickCal
Option 230	4 GHz spectrum analyzer (requires Option 104), includes tracking generator, independent source
Option 231	6 GHz spectrum analyzer (requires Option 106), includes tracking generator, independent source
Option 235	Preamplifier for spectrum analyzer (requires Option 230 or 231)
Option 236	Interference analyzer
Option 302	External USB power sensor support
Option 303	Network analyzer capability (Option 110 recommended)
Option 308	Vector voltmeter
Option 311	Channel power meter
Option 312	Channel scanner
Option 330	Pulse measurements

Optimized for the following applications

- Wireless service providers
- Aerospace and defense customers
- TV and broadcasting customers
- Contractor for the above

www.keysight.com/find/services

Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

FieldFox accessories

Model No.	Description
N9910X-800	T-calibration kit, DC-6 GHz, Type-N (m)
N9910X-801	T-calibration kit, DC-6 GHz, Type-N (f)
N9910X-802	T-calibration kit, DC-6 GHz, 7/16 DIN (m)
N9910X-803	T-calibration kit, DC-6 GHz, 7/16 DIN (f)
85514A	4-in-1 OSLT mechanical calibration kit, DC to 9 GHz, Type-N (m), 50 Ω
85515A	4-in-1 OSLT mechanical calibration kit, DC to 9 GHz, Type-N (f), 50 Ω
N9910X-810	Rugged phase-stable cable, Type-N (m) to Type-N (m), 5 ft
N9910X-811	Rugged phase-stable cable, Type-N (m) to Type-N (f), 5 ft
N9910X-812	Rugged phase-stable cable, Type-N (m) to Type-N (m), 12 ft
N9910X-813	Rugged phase-stable cable, Type-N (m) to Type-N (f), 12 ft
N9910X-820	Antenna, directional, multiband, 800 MHz to 2500 MHz, 10 dBi
N9910X-821	Antenna, telescopic whip, 70 MHz to 1 GHz
N9910X-843	Coaxial adapter, Type-N (m) to 7/16 DIN (f)
N9910X-845	Adapter kit – Type-N (f) to 7/16 (f), Type-N (f) to 7/16 (m), Type-N (f) to Type-N (f)
N9910X-846	Coaxial adapter, 50 Ω Type-N (m) to 75 Ω Type-N (f) (quantity two required for 75 Ω measurements)
N9910X-860	Fixed attenuator, 40 dB, 100 W, DC-3 GHz, Type-N (m) to Type-N (f)
N9910X-861	Fixed attenuator, 40 dB, 50 W, DC-8.5 GHz, Type-N (m) to Type-N (f)
N9910X-870	Extra battery
N9910X-872	External battery charger
N9910X-873	AC/DC adapter
N9910X-874	External bias-tee, 2.5 MHz to 6 GHz, 1 W, 0.5 A
N9910X-875	DC car charger and adapter
N9910X-881	Hard transit case

