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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9914A

Agilent / Keysight N9914A FieldFox Handheld Analyzer The Keysight (Agilent) N9914A isaFieldFox handheld microwave analyzer. OEM FieldFox A-Series datasheets list frequency coverage 30 kHz to 6.5 GHz with frequency reference accuracy plus or minus 0.7 ppm (spec) plus aging from minus 10 to 55 C, and optional CAT/VNA/SA measurement modes by model family. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. GPS-disciplined frequency reference option path The Keysight (Agilent) N9914A isaFieldFox handheld microwave analyzer. OEM FieldFox A-Series datasheets list frequency coverage 30 kHz to 6.5 GHz with frequency reference accuracy plus or minus 0.7 ppm (spec) plus aging from minus 10 to 55 C, and optional CAT/VNA/SA measurement modes by model family. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. GPS-disciplined frequency reference option path Frequency Reference Accuracy Spec: plus or minus 0.7 ppm + aging (minus 10 to 55 C)



MODEL

**Agilent / Keysight
N9914A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9914A

LISTING

<https://aumictechlabs.com/products/n9914a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N9914A FieldFox is a handheld RF combination analyzer built for field testing, spectrum monitoring, and cable/antenna characterization. The base model delivers Distance-to-Fault, return loss, cable loss, and VSWR measurements across 30 kHz to 6.5 GHz. Its modular

architecture supports optional vector network analysis, spectrum analysis, power metering, vector voltmeter, noise figure, real-time spectrum analysis, and GPS geo-location tagging - enabling a single portable instrument to handle routine maintenance through advanced troubleshooting. The instrument meets MIL-SPEC durability standards with a dust-free, vent-free design. Its transfective display and backlit keys provide reliable readability from direct sunlight to low-light field conditions. Type-N female RF connectors and 50 Ω input impedance ensure compatibility with standard test equipment.

Technical Specifications

Frequency Range: 30 kHz to 6.5 GHz (base model); Spectrum Analysis option: 100 kHz to 6.5 GHz; Vector Network Analyzer option: 30 kHz to 6.5 GHz

Measurement Capabilities:

- Cable and Antenna Analysis: Distance-to-Fault, return loss, 1-port cable loss, VSWR
- Vector Network Analyzer (opt.): Full 2-port S-parameters (S11, S21, S22, S12), magnitude/phase, TDR, mixed-mode S-parameters (1-port)
- Spectrum Analyzer (opt.): ± 0.5 dB amplitude accuracy, PowerSuite, InstAlign, time gating, interference analysis, spectrogram
- Built-in Power Meter (opt.): USB power sensor support, microwave power measurements to 40 GHz, peak power and pulse profile analysis
- Vector Voltmeter (opt.): Phase shift, electrical length, magnitude/phase ratios

Optional: Extended Range Transmission Analysis, Real-Time Spectrum Analyzer, Noise Figure, GPS receiver, Variable DC Bias Source (1–32 VDC, 650 mA, 8 W max)

Performance: Trace Noise: 0.004 dB rms Dynamic Range (CAT): 100 dB Output Power: Up to 1 dBm (high power, 3–6.5 GHz); –45 dBm (low power setting) Input Impedance: 50 Ω

Key Features

- Modular expansion without external hardware
- MIL-SPEC durability, dust-free and vent-free design
- Transfective display with backlit control keys
- Type-N female RF connector

Typical Applications

- Field cable and antenna characterization
- Time-domain fault location
- Vector network measurements in installed systems
- Spectrum monitoring and interference detection
- Pulse and modulated signal analysis

Compatibility & Integration

- USB power sensor integration for extended power measurement range to 40 GHz
- GPS receiver for field geo-location
- DC bias source for active device testing.

N9914A Characteristics / Specifications

PARAMETER	VALUE
Model	N9914A
Frequency Range	30 kHz to 6.5 GHz
Frequency Reference Accuracy Spec	plus or minus 0.7 ppm + aging (minus 10 to 55 C)
Frequency Reference Accuracy Typical	plus or minus 0.4 ppm + aging
Frequency Accuracy Locked To GPS	plus or minus 0.010 ppm
Frequency Resolution At Or Below 5 GHz	1 Hz
Frequency Resolution At Or Below 10 GHz	1.34 Hz
Frequency Resolution At Or Below 20 GHz	2.68 Hz
Frequency Resolution At Or Below 40 GHz Class	5.36 Hz class
Aging Rate Class	plus or minus 1 ppm/yr class for first year
Platform	FieldFox handheld analyzer
CAT Mode	cable and antenna analysis when enabled
VNA Mode	S-parameter magnitude/phase when enabled
Spectrum Analyzer Mode	when enabled on SA/combo models
Dynamic Range VNA Class At 9 GHz	100 dB class on N991xA family tables
Dynamic Range VNA Class At 18 GHz	94 dB class
Dynamic Range VNA Class At 26.5 GHz	70 dB class
Connectivity Class	USB and LAN
Display	handheld daylight-viewable display
Battery Operation	yes
Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight
Operating temperature	Class: minus 10 C to 55 C FieldFox class

N9914A Specifications

PARAMETER	VALUE
Agilent / Keysight N9914A FieldFox Handheld Analyzer	Overview
Key Features	Frequency coverage 30 kHz to 6.5 GHz
Technical Specifications	Model: N9914A
Notes	From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9914A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: minus 10 C to 55 C FieldFox class
Operating Temperature	Class: minus 10 C to 55 C FieldFox class
Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	N9914A
Frequency Range	30 kHz to 6.5 GHz
Frequency Reference Accuracy Spec	plus or minus 0.7 ppm + aging (minus 10 to 55 C)
Frequency Reference Accuracy Typical	plus or minus 0.4 ppm + aging
Frequency Accuracy Locked To GPS	plus or minus 0.010 ppm
Frequency Resolution At Or Below 5 GHz	1 Hz
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Frequency Resolution At Or Below 20 GHz	2.68 Hz
Frequency Resolution At Or Below 40 GHz Class: 5.36 Hz class	
Specifications	
PARAMETER	VALUE
Aging Rate Class	plus or minus 1 ppm/yr class for first year
Platform	FieldFox handheld analyzer
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Spectrum Analyzer Mode	when enabled on SA/combination models
Dynamic Range VNA Class At 9 GHz	100 dB class on N991xA family tables
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Connectivity Class	USB and LAN
Display	handheld daylight-viewable display
Battery Operation	yes
Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight
Option Path: measurement modes depend on installed licenses	

Notes

From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9914A.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.