

# Keysight 14 FieldFox Analyzers, 4/6.5/9/14/18/26.5 GHz

## Delivers benchtop accuracy and MIL-Spec durability to field applications

Keysight Technologies, Inc. FieldFox brings bench-level accuracy into the field by delivering precise handheld RF and microwave measurements that agree with benchtop analyzers. FieldFox RF and microwave analyzers include: spectrum analyzers (N993x), full 2-port vector network analyzers (N992x), and all-in-one combination analyzers (N991x). The combination analyzer's base function is a cable and antenna analyzer and can be configured to include spectrum and network analysis.



## Key differentiators

- Rugged:
  - Meets MIL-PRF-28800F Class 2
  - Meets IEC/EN 60529 IP53 requirements
  - Type tested and meets Procedure 1 requirements for operation in explosive environments. MIL-810G, Method 511.5
- Weather-resistant:
  - No vents or fans extends instrument reliability and withstands salty, humid environments with wide operating temp of -10 to +55 °C (14 to 131 °F)
- Portable:
  - Compact, light weight 3.0 kg (6.6 lbs) package
- FieldFox analyzers:
  - Spectrum analyzer provides best amplitude accuracy  $\pm 0.5$  dB, no warm up required
  - VNAs offer the most accurate calibration technique (full 2-port unknown thru)
  - VNA and cable and antenna analyzer can test cables, antennas, and other devices without external cal kits (QuickCal and CalReady)
  - Built-in microwave independent signal source with flattened power output makes system verification easier in the field
  - Full-band tracking generator
- Standard 3 year warranty

	N991X	N992X	N993X
Cable/antenna analyzer	X	X	
Spectrum analyzer	X		X
Vector network analyzer	X	X	
Tracking generator	X		X
Independent CW source	X		X

Function	Description
<b>Cable antenna analyzer and vector network analyzer</b>	
Frequency	30 kHz to 9 GHz, 14 GHz, 18 GHz, 26.5 GHz
Dynamic range	Up to 100 dB
Output power	Up to +2 dBm
<b>Spectrum analyzer</b>	
Frequency	5 kHz to 9 GHz, 14 GHz, 18 GHz, 26.5 GHz
Spur-free dynamic range	≥ 105 dB
Phase noise	-111 dBc at 10 kHz offset
<b>Independent source</b>	
Frequency	30 kHz to 9 GHz, 14 GHz, 18 GHz, 26.5 GHz
<b>General</b>	
Environmental	Meets MIL-PRF-28800F Class 2
Temperature	Operating: -10 to +55 °C (14 to 131 °F)
Dimensions and weight	11.5" x 7.4" x 2.8" (292 x 188 x 72 mm), < 3 kg (6.6 lbs) with battery

## FieldFox Analyzer Options

The FieldFox base unit consists of a cable and antenna analyzer, or spectrum analyzer, or VNA. The following accessories are included: AC/DC adapter, 1 battery, soft carrying case, LAN cable, quick reference guide and user guide.

Model number	Frequency	Description
<b>N992xA</b>		
N9913A	4 GHz	FieldFox RF combination analyzer
N9914A	6.5 GHz	FieldFox RF combination analyzer
N9915A	9 GHz	FieldFox microwave combination analyzer
N9916A	14 GHz	FieldFox microwave combination analyzer
N9917A	18 GHz	FieldFox microwave combination analyzer
N9918A	26.5 GHz	FieldFox microwave combination analyzer
Option 010		Vector Network analyzer time domain
Option 030		Remote control compatibility
Option 208		USB power sensor measurements versus frequency
Option 210		Vector network analyzer: transmission and reflection
Option 211		Vector network analyzer: full 2-port S-parameters
Option 212		Mixed mode S-parameters
Option 233		Spectrum analyzer
Option 238		Spectrum analyzer time gating
Option 309		DC bias variable-voltage source
Option 310		Built-in power meter
Option 330		Pulse measurements (with external peak power sensor)

Model number	Frequency	Description
<b>N992xA</b>		
N9925A	9 GHz	FieldFox microwave vector network analyzer
N9926A	14 GHz	FieldFox microwave vector network analyzer
N9927A	18 GHz	FieldFox microwave vector network analyzer
N9928A	26.5 GHz	FieldFox microwave vector network analyzer
Option 010		Time domain
Option 030		Remote control compatibility
Option 112		QuickCal
Option 208		USB power sensor measurements versus frequency
Option 211		Vector network analyzer: Full 2-port S-parameters
Option 212		Mixed mode S-parameters
Option 308		Vector voltmeter
<b>N993xA</b>		
N9935A	9 GHz	FieldFox microwave spectrum analyzer
N9936A	14 GHz	FieldFox microwave spectrum analyzer
N9937A	18 GHz	FieldFox microwave spectrum analyzer
N9938A	26.5 GHz	FieldFox microwave spectrum analyzer
Option 030		Remote control compatibility
Option 208		USB power sensor measurements versus frequency
Option 220		Full-band tracking generator
Option 236		Interference analyzer and spectrogram
Option 238		Spectrum analyzer time gating
Option 307		Built-in GPS receiver (antenna sold separately)
N9910X		FieldFox accessories: Adapters, antennas, cables, etc.
N9911X		Economical waveguide calibration components

[www.keysight.com/find/FieldFox](http://www.keysight.com/find/FieldFox)



### Three-Year Warranty

[www.keysight.com/find/ThreeYearWarranty](http://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](http://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.