N932xC Basic Spectrum Analyzer (BSA)

Outperform expectations in your essential applications

Occupies 3U height of rack space
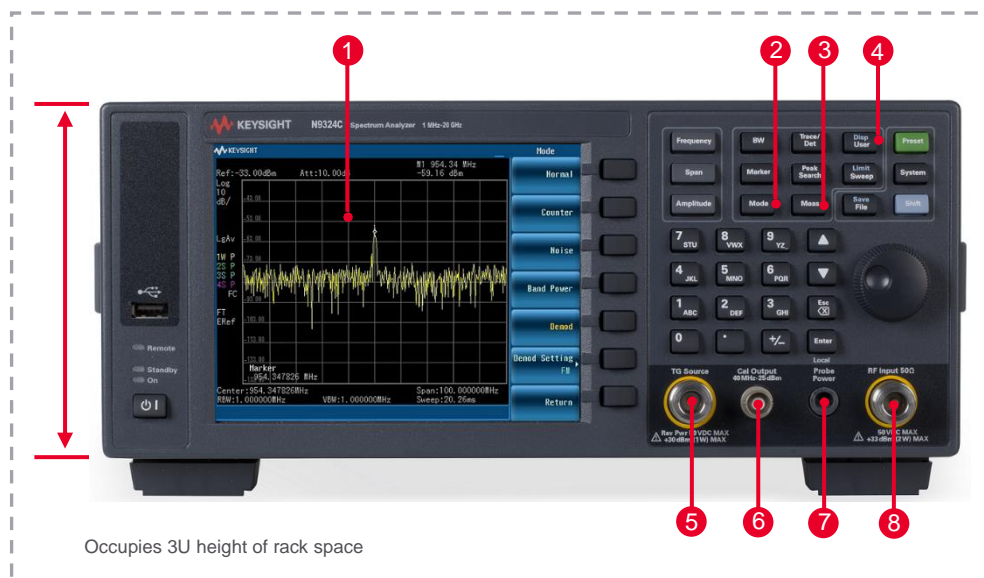
1. 6.5'' TFT color display with multiple language UI
2. Multiple measurement modes: Spectrum analyzer (default), tracking generator, reflection measurement*, modulation analysis, and power meter mode
3. One button power suite: channel power, OBW, ACPR, SEM, channel scanner and spectrogram
4. User key for quick access to 18 frequently-used measurement configurations
5. Tracking generator (including a built-in VSWR bridge*)
6. 40 MHz calibration output
7. Probe power
8. RF input, 50 Ω

Reliable performance to micorwave frequency range

- Frequency covers from 9 kHz to 4/7 GHz or 1 MHz to 13.6/20 GHz, with up to ± 0.1 ppm annual aging rate, reducing frequency drift for more accurate measurements
- Typical –162 dBm DANL allows to view low-level signals easily and clearly
- Typical ± 0.3 absolute amplitude accuracy provides you with greater confidence in power measurement results

Value-added capabilities help you gain more insight during RF design and troubleshooting

- Tracking generator with built-in VSWR bridge, supports transmission and reflection measurements [1]
- Demodulation mode allows you to gain more insight easily and cost-effectively into AM/FM and ASK/FSK signal analysis
- Supports Keysight U2000 Series and U2020 X-Series USB power sensors for precision power measurement
- Built-in DC input channel for AM/FM in-band, on-channel measurement, and xDSL measurement from 9 kHz to 10 MHz [1]

Minimized learning curve enhances productivity

- User-definable softkeys provide quick access to 18 frequently used measurement setups, helping you easily switch from one task to another
- Task planner makes testing fast and easy by automating testing using pre-defined test routines
- SCPI commands compatible with Keysight ESA Spectrum Analyzer Series

1. VSWR bridge, reflection measurement, DC input channel are supported by N9321 and N9322C

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Key specifications

	N9321C	N9322C	N9323C	N9324C
Frequency range	9 kHz – 4 GHz	9 kHz – 7 GHz	1 MHz – 13.6 GHz	1 MHz – 20 GHz
Reference aging rate	± 1 ppm, ± 0.1 ppm (w/Opt. PFR)			
Absolute amplitude accuracy	± 0.3 dB			
Displayed average noise level, 1 GHz (typical)	-162 dBm/Hz	-162 dBm/Hz	-154 dBm/Hz	-154 dBm/Hz
Resolution bandwidth	10 Hz – 3 MHz			
Third-Order Intercept (TOI)	+11 dBm	+11 dBm	+9 dBm	+9 dBm
Input attenuator	0 to 50 dB, in 1 dB steps	0 to 50 dB, in 1 dB steps	0 to 50 dB, in 5 dB steps	0 to 50 dB, in 5 dB steps
Phase noise, 100 kHz offset	-98 dBc/Hz	-98 dBc/Hz	-97 dBc/Hz	-97 dBc/Hz

Option information

| Option	Description	N9321C	N9322C	N9323C	N9324C
P04	Preamplifier, 4 GHz	√			
P07	Preamplifier, 7 GHz		√		
P13	Preamplifier, 13.6 GHz			√	
P20	Preamplifier, 20 GHz				√
TG4	Tracking generator, 4 GHz	√			
TG7	Tracking generator, 7 GHz		√	√	√
RM4	Reflection measurement (requires TG4)	√			
RM7	Reflection measurement (requires TG7)		√		
G01	GPIB interface	√	√	√	√
AMA	AM/FM demodulation analysis	√	√	√	√
DMA	ASK/FSK demodulation analysis	√	√	√	√
TMG	Gated sweep	√	√	√	√
TPN	Task planner	√	√	√	√
SEC	Security features	√	√	√	√
MNT	Signal monitor with spectrogram	√	√	√	√
SCN	Channel scanner	√	√	√	√
PWM	U2000 Series power sensor support	√	√	√	√
PWP	U2020 X-series power sensor support	√	√	√	√
BB1	Baseband input	√	√		
PFR	Precision frequency reference	√	√	√	√

Measurement features

Channel scanner
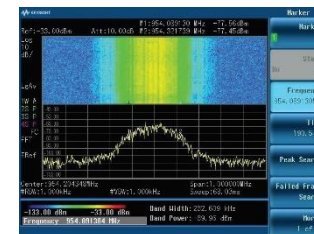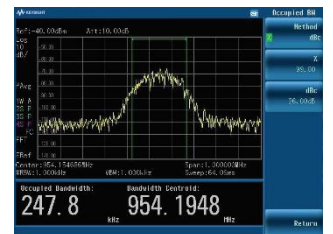

Task planner
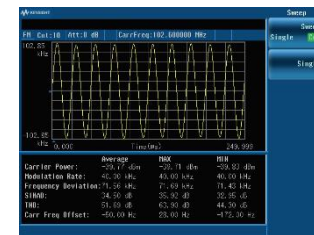
FM demodulation analysis
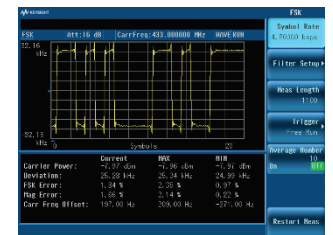
FSK demodulation analysis

Spectrogram

Power suite – Occupied bandwidth

Learn more at: www.keysight.com

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