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# U8903B

## Performance Audio Analyzer

# Notices

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### WARNING

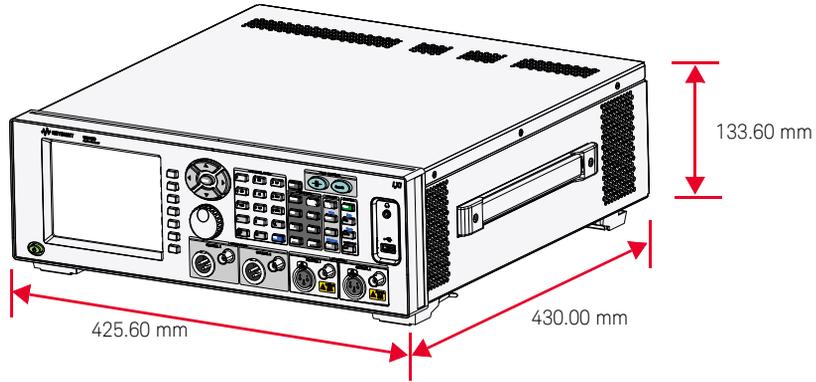
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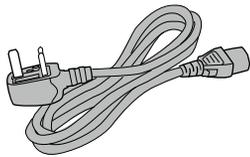
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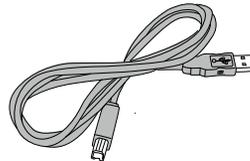
# Standard Shipped Items



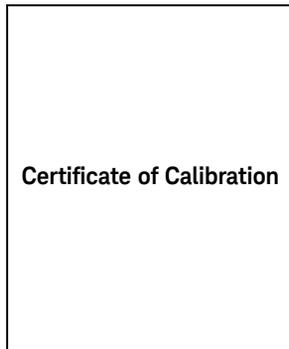
**Keysight U8903B Performance Audio Analyzer**



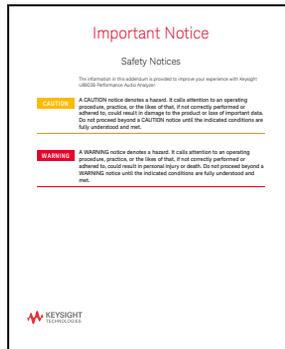
Power cord



USB cable



Certificate of Calibration



**Important Notice**

**Safety Notices**

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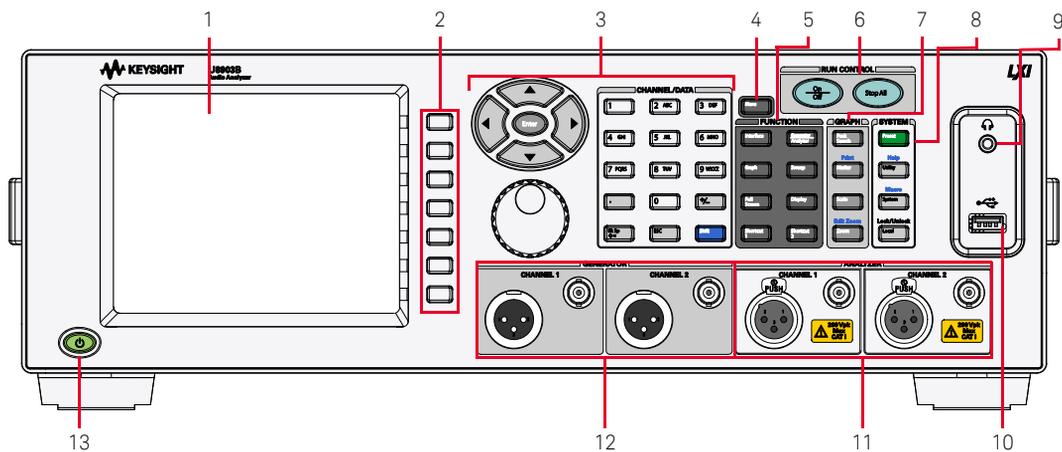
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Safety Notices

# Product at a Glance

## Front panel

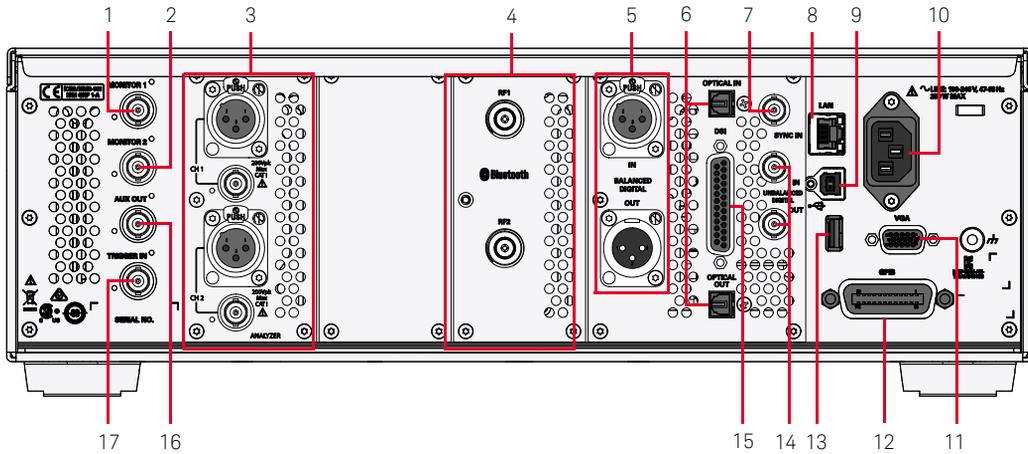


Item	Item
1 LCD display	8 SYSTEM panel
2 Softkeys 1 to 7	9 Headphone jack
3 Navigation and CHANNEL/DATA panels	10 USB port
4 Menu key	11 Analog analyzer input
5 FUNCTION panel	12 Analog generator output
6 Run Control panel	13 Power key
7 GRAPH panel	

### NOTE

For the complete list of all the front panel functions and descriptions, refer to the *Keysight U8903B User's Guide*.

## Rear panel



Item	Item
1 Monitor 1	10 AC power port
2 Monitor 2	11 VGA port
3 Analog analyzer input (channels 3 and 4)	12 GPIB port
4 Bluetooth RF ports <sup>[a]</sup>	13 USB port
5 Digital analyzer input and output (AES3)	14 Digital analyzer input and output (AES3/SPDIF)
6 Digital analyzer input and output (SPDIF)	15 Digital analyzer input and output (DSI)
7 Sync in	16 AUX port
8 LAN port	17 Trigger in
9 USB port (type B)	

[a] The RF1 port is the default port and the RF2 port can be selected in the U8903B's GUI. Only one RF port can be used at a time.

### NOTE

For the complete list of all the rear panel functions and descriptions, refer to the *Keysight U8903B User's Guide*.

## LCD display



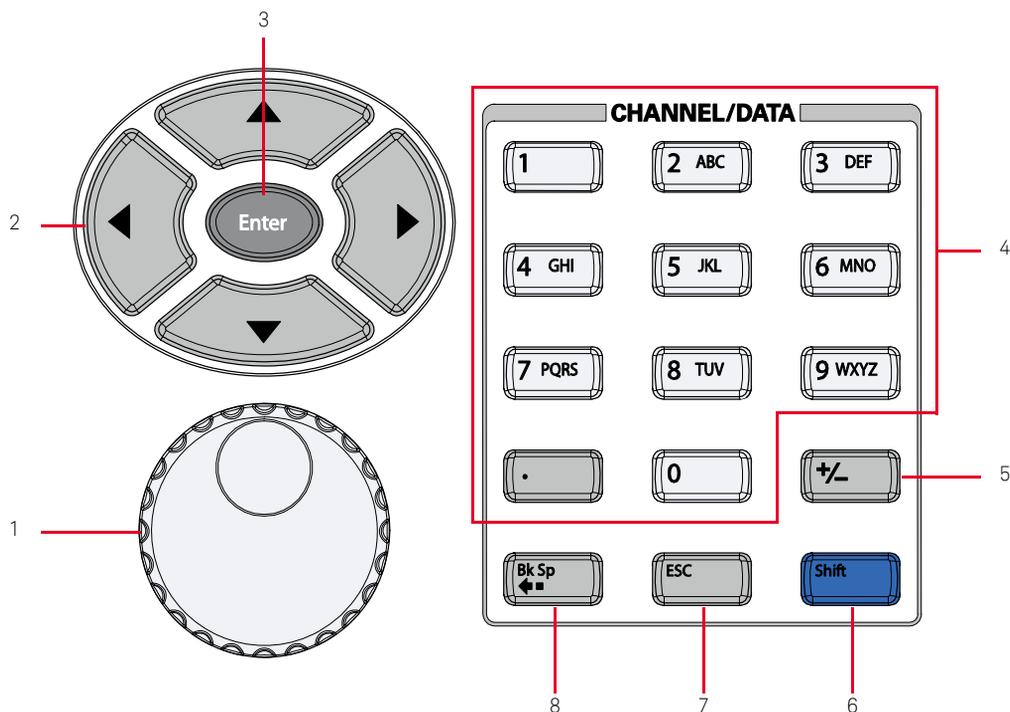
Item	Item	Item	Item
1	Main display	3	Softkeys panel
2	Title bar	4	Status bar

### NOTE

For the complete list of all the LCD display functions and descriptions, refer to the *Keysight U8903B User's Guide*.

# Navigation and CHANNEL/DATA Panels

The navigation and CHANNEL/DATA panels are used to navigate and to set or modify the parameter values.

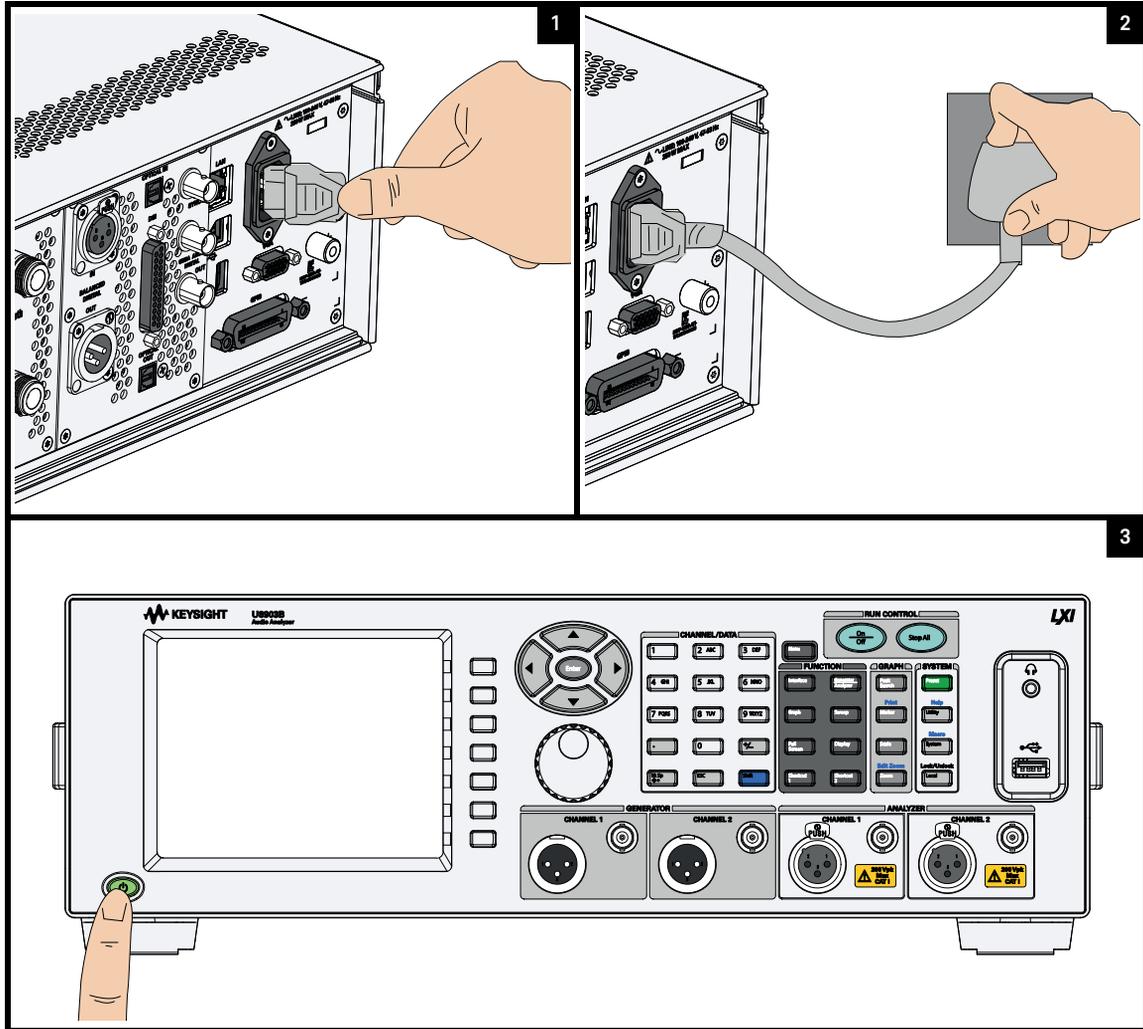


Item	Item
1 Knob	5 Numeric sign key
2 Arrow keys	6 Shift key
3 Enter key	7 Escape key
4 Numeric keys	8 Backspace key

## NOTE

For the complete list of all the navigation and CHANNEL/DATA keys functions and descriptions, refer to the *Keysight U8903B User's Guide*.

# Power On the U8903B



# Preset the U8903B

**1**

**SYSTEM**

- Preset**
- Help
- Utility
- Macro
- System
- Lock/Unlock
- Local

Press **Preset** to set the U8903B to a known state.

It does not affect the I/O configuration, calibration data, or system configurations (time, date, model number, and serial number).

**2**

**Preset**

AG1	Amplitude	1.0000 Vrms	Frequency	1.0000 kHz	ON	
	DC Offset	0.0000 V	Waveform	Sine		
	Connector	Loopback	Impedance	600 Ω	Ground	Float

AA1	1.AC Voltage	997.85 mV	2.Frequency	1000.0 Hz	ON
-----	--------------	-----------	-------------	-----------	----

LFF	None	Range	Auto	Connector	Loopback
HFF	None	Samples	32768	Impedance	200 kΩ
Weighting	None	Average	1	Coupling	AC
DeEm	None	Ext. Gain	0.000 dB	Bandwidth	90kHz

- Analog Generator
- Save User State
- Mode
- To Factory Settings
- User State
- Return

# Access the Help System

**1**

**SYSTEM**

- Preset
- Help**
- Utility
- Macro
- System
- Lock/Unlock
- Local

Press **Shift** on the CHANNEL/DATA panel, and press **Utility** to activate or deactivate the U8903B help mode.

The help mode icon will appear at the top-right of the title bar.

The U8903B help mode provides you quick access to the operating information by displaying the description of all the front panel keys and current softkeys.

**2**

Help mode icon

**Analog Generator**

AG1	Amplitude	1.0000 Vrms	Frequency	1.0000 kHz	ON	
	DC Offset	0.0000 V	Waveform	Sine		
	Connector	Loopback	Impedance	600 Ω	Ground	Float

AA1	1.AC Voltage	998.46 mV	2.Frequency	1.0000 kHz	ON
-----	--------------	-----------	-------------	------------	----

LFF	None	Range	Auto	Connector	Loopback
HFF	None	Samples	32768	Impedance	200 kΩ
Weighting	None	Average	1	Coupling	AC
DeEm	None	Ext. Gain	0.000 dB	Bandwidth	90kHz

- Waveform Sine
- Waveform Config
- Output Config
- References

# Access the U8903B Menu

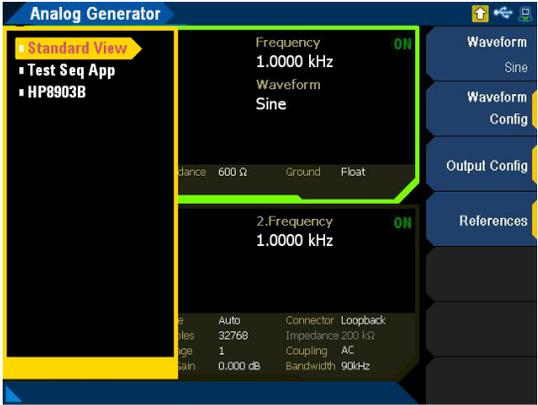


Press **Menu** to display the available U8903B main modes of operation.

Use the arrow keys or knob to select the desired main mode, and press **Enter** on the navigation panel.

U8903B main mode selection 2



Standard view mode 3



Test sequence application mode 4



HP8903B mode 5



# Switch to 2-Panel, 4-Panel, or 10-Panel View

**FUNCTION**

Interface	Generator Analyzer
Graph	Sweep
Full Screen	<b>Display</b>
Shortcut 1	Shortcut 2

Press **Display** to switch among the 2-panel, 4-panel, or 10-panel view in the generator and analyzer mode.

2-panel view

4-panel view

10-panel view

# U8903B Options

Option	Description
U8903B-STD	- 2 channels (analog generator) - 2 channels (analog analyzer)
U8903B-AN4	- 2 channels (analog generator) - 4 channels (analog analyzer)
U8903B-AN8	- 2 channels (analog generator) - 8 channels (analog analyzer)
U8903B-DGT	Digital audio card
U8903B-BLU	<i>Bluetooth</i> card with 2 RF connectors.
U8903B-BL2	<i>Bluetooth</i> card with 2 RF connectors at a secondary option slot. This is only applicable when U8903B-AN8 is selected.
N3431A	Wide bandwidth option - 1.5 MHz (fixed perpetual license). This is only available for channel 1 and channel 2 analog analyzer.
N3432A	Perceptual Objective Listening Quality Analysis (POLQA) measurement software (fixed perpetual license).
N3434A	AES3, SPDIF, and DSI digital audio interfaces (fixed perpetual license).



This information is subject to change without notice. Always refer to the Keysight Web site for the latest revision.

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