



RIGOL

DNA800 Series

Vector Network Analyzer

Quick Guide
Jul. 2026

Guaranty and Declaration

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1 Document Overview

This document is intended to provide a quick overview of the front and rear panels, user interface and basic operation of the DNA800 series vector network analyzer.

Tip

For the latest version of this manual, download it from the official website of RIGOL (www.rigol.com).

Publication Number

QGO04100-1110

Software Version

Software upgrade might change or add product features. Please acquire the latest version of the manual from RIGOL website or contact RIGOL to upgrade the software.

Format Conventions in this Manual

1.Key

Use "Key Character (Bold) + Text Box" to denote a front panel function key. For example, System denotes the front panel "System" key.

2.Menu

The menu item is denoted by the format of "Menu Name (Bold) + Character Shading" in the manual. For example, Frequency indicates clicking or tapping Frequency to enter the frequency setting menu.

3.Operation Procedures

The next step of the operation is denoted by "->" in the manual. For example, Frequency -> Center indicates first clicking or tapping Frequency, and then clicking or tapping Center function key.

Content Conventions in this Manual

DNA800 series vector network analyzer includes the following models. Unless otherwise specified, this manual takes DNA814 as an example to illustrate DNA800 series and its basic operation.

Model	Frequency	Number of Port	Connector
DNA804	5 kHz ~ 4.5 GHz	2	N-type Female
DNA808	5 kHz ~ 8.5 GHz	2	N-type Female
DNA814	5 kHz ~ 14 GHz	2	N-type Female

2 Safety Requirement

2.1 General Safety Summary

Please review the following safety precautions carefully before putting the instrument into operation so as to avoid any personal injury or damage to the instrument and any product connected to it. To prevent potential hazards, please follow the instructions specified in this manual to use the instrument properly.

1. Only the exclusive power cord designed for the instrument and authorized for use within the local country could be used.
2. Ensure that the instrument is safely grounded.
3. Observe all terminal ratings.
4. Use proper overvoltage protection.
5. Do not operate without covers.
6. Do not insert objects into the air outlet.
7. Use the proper fuse.
8. Avoid circuit or wire exposure.
9. Do not operate the instrument with suspected failures.
10. Provide adequate ventilation.
11. Do not operate in wet conditions.
12. Do not operate in an explosive atmosphere.
13. Keep instrument surfaces clean and dry.
14. Prevent electrostatic impact.
15. Handle with caution.

2.2 Safety Notices and Symbols

Safety Notices in this Manual:



Warning

Indicates a potentially hazardous situation or practice which, if not avoided, will result in serious injury or death.



CAUTION

Indicates a potentially hazardous situation or practice which, if not avoided, could result in damage to the product or loss of important data.

Safety Notices on the Product:

● **DANGER**

It calls attention to an operation, if not correctly performed, could result in injury or hazard immediately.

- **WARNING**

It calls attention to an operation, if not correctly performed, could result in potential injury or hazard.

- **CAUTION**

It calls attention to an operation, if not correctly performed, could result in damage to the product or other devices connected to the product.

Safety Symbols on the Product:



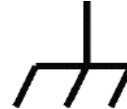
**Hazardous
Voltage**



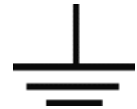
**Safety
Warning**



**Protective
Earth Terminal**



**Chassis
Ground**



Test Ground

2.3 Measurement Instrument Class

Class A (for non-household products)

NOTE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

2.4 Ventilation Requirement

This instrument uses a fan to force cooling. Please make sure that the air inlet and outlet areas are free from obstructions and have free air. When using the instrument in a bench-top or rack setting, provide at least 10 cm clearance beside, above and behind the instrument for adequate ventilation.



CAUTION

Inadequate ventilation may cause an increase of temperature in the instrument, which would cause damage to the instrument. So please keep the instrument well ventilated and inspect the air outlet and the fan regularly.

2.5 Working Environment

Temperature

Operating: 0°C to +40°C

Non-operating: -20°C to +60°C

Humidity

- **Operating:**

Below +30°C: ≤95% RH (without condensation)

+30°C to +40°C: ≤75% RH (without condensation)

- **Non-operating:**

Below +40°C: 5% to 90%, without condensation

+40°C to +60°C: 5% to 80%, without condensation



Warning

To avoid short circuit inside the instrument or electric shock, never operate the instrument in a humid environment.

Altitude

Operating altitude below 2,000 m (6,561.68 feet)

Protection Level Against Electric Shock

ESD ±8kV

Installation (Overvoltage) Category

This product is powered by a power adapter conforming to installation (overvoltage) category II.



Warning

Ensure that no overvoltage (such as that caused by lightning) reaches this product. Otherwise, the operator may be exposed to the danger of electric shock.

Installation (Overvoltage) Category Definitions

Installation (overvoltage) category I refers to signal level which is applicable to equipment measurement terminals connected to the source circuit. Among these terminals, precautions are done to limit the transient voltage to a low level.

Installation (overvoltage) category II refers to the local power distribution level which is applicable to equipment connected to the AC line (AC power).

Pollution Degree

2 Pollution Degree 2

Pollution Degree Definition

- **Pollution Degree 1:** No pollution or only dry, nonconductive pollution occurs. The pollution has no effect. For example, a clean room or air-conditioned office environment.
- **Pollution Degree 2:** Normally only nonconductive pollution occurs. Temporary conductivity caused by condensation is to be expected. For example, indoor environment.
- **Pollution Degree 3:** Conductive pollution or dry nonconductive pollution that becomes conductive due to condensation occurs. For example, sheltered outdoor environment.
- **Pollution Degree 4:** The pollution generates persistent conductivity caused by conductive dust, rain, or snow. For example, outdoor areas.

Safety Class

Class III product

2.6 Care and Cleaning

Care

Do not place the instrument in a location exposed to direct sunlight for a long period of time.

Cleaning

Clean the instrument regularly according to usage. The cleaning procedure is as follows:

1. Disconnect the instrument from all power sources.
2. Clean the external surfaces of the instrument with a soft cloth dampened with mild detergent or water. Avoid having any water or other objects into the chassis via the heat dissipation hole. When cleaning the LCD, take care to avoid scarifying it.



CAUTION

To avoid damage to the instrument, do not expose it to caustic liquids.



Warning

To avoid short-circuit resulting from moisture or personal injuries, ensure that the instrument is completely dry before connecting it to the power supply.

2.7 Environmental Considerations

The following symbol indicates that this product complies with the WEEE Directive 2012/19/EU.



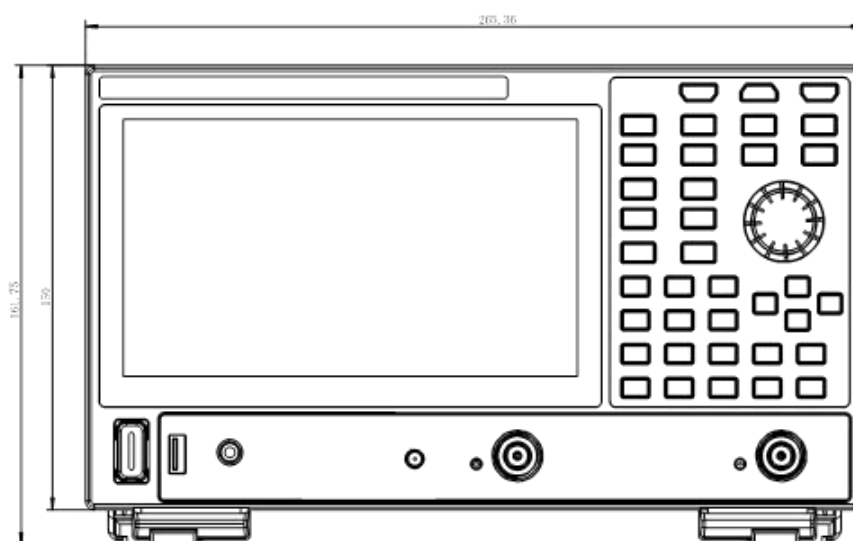
The equipment may contain substances that could be harmful to the environment or human health. To avoid the release of such substances into the environment and avoid harm to human health, we

recommend you to recycle this product appropriately to ensure that most materials are reused or recycled properly. Please contact your local authorities for disposal or recycling information. You can click on the following link <https://www.rigol.com/intl/services/environmental-protection-statement.html> to download the latest version of the RoHS&WEEE certification file.

3 Product Overview

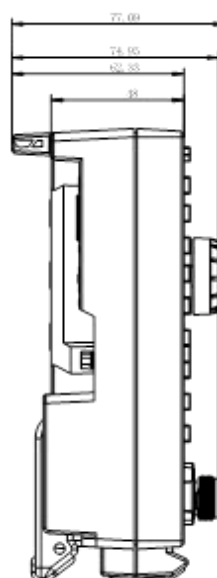
DNA800 series vector network analyzer offers multiple calibration methods including frequency response, single port, response isolation, enhanced response, full two port, and electrical calibration. It supports various data display formats including log magnitude, linear magnitude, SWR, phase, group delay, Smith Smith chart, polar plot, and other display formats. Equipped with USB, LAN, HDMI and other standard interfaces, the instrument accurately measures the magnitude-frequency, phase-frequency, and group delay characteristics of microwave networks. This product can be widely applied in fields such as electronics, communication and microwave, and is a commonly used test instrument in industrial and university R&D and mass production.

3.1 Appearance and Dimensions



Unit:mm

Figure 3.1 DNA800 Series Front View



Unit:mm

Figure 3.2 DNA800 Series Side View

3.2 Front Panel

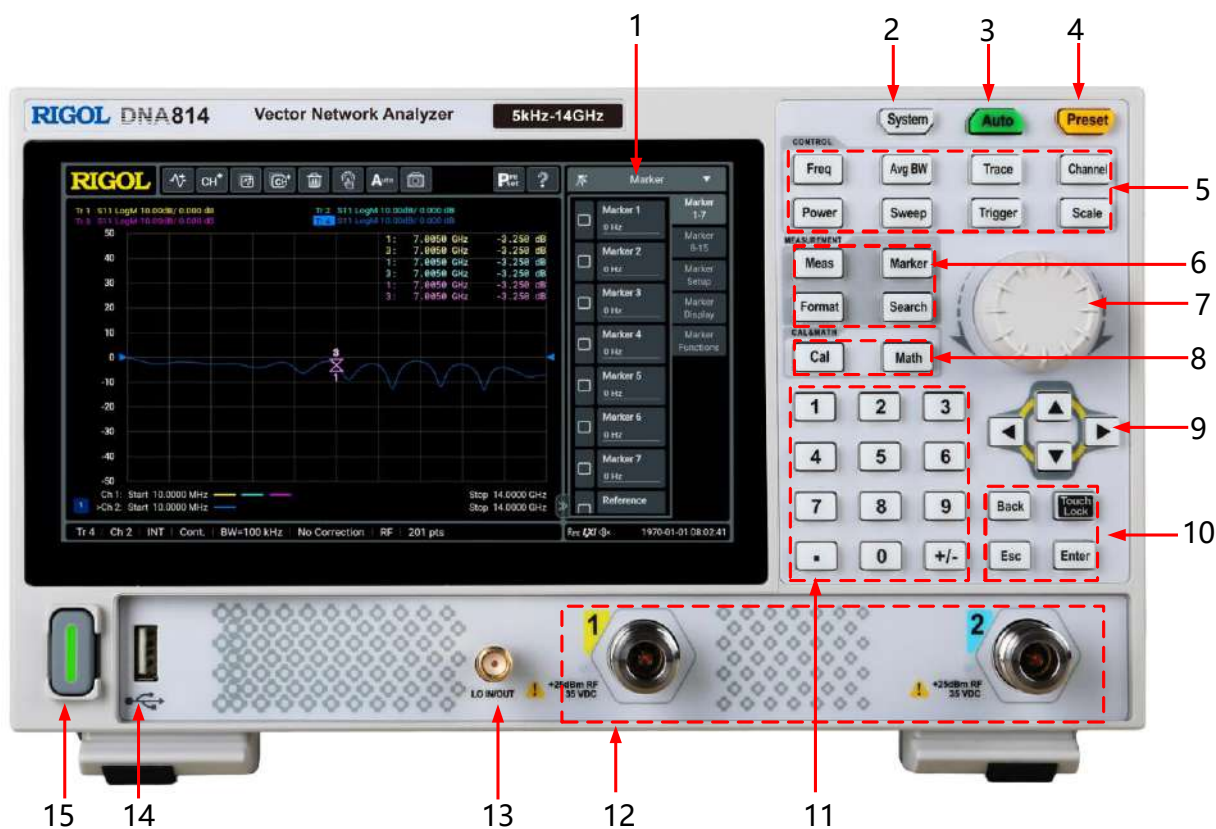


Figure 3.3 DNA800 Series Front Panel

1. Screen

7" capacitive gesture-enabled touch screen, with the display resolution 1024*600

2. System Key

Press this key to enter the system setting menu. You can set the IP address of the instrument, display or hide the system date, set the language, enable or disable the beeper, perform instrument self-test, etc.

3. Auto Key

Auto Scale shortcut: Automatically adjust the scale of the active trace.

4. Preset Key

Press this key to preset the system settings.

5. CONTROL Function Keys

- Freq: sets the start frequency, center frequency, stop frequency, frequency span, etc.
- Avg BW: performs Averaging operation on the test data; sets the IF bandwidth of the receiver, etc.
- Trace: Set, add, or delete traces

- Channel: manages the channel, window, and sheet.
- Power: sets the power of output signal on the port.
- Sweep: sets the sweep points, sweep type, sweep time, etc.
- Trigger: sets the trigger source, trigger mode, trigger condition, etc.
- Scale: sets the scale and reference level position of the trace..

6. MEASUREMENT Function Keys

- Meas: sets the port S parameter measurement
- Format: sets the data format of the measurement parameters.
- Marker: sets the marker of the measurement parameters, providing readout of S-Parameter measurement data.
- Search: searches for the peak, max. value, min. value, target value of the test parameters.

7. Knob

When a parameter is editable, rotate the knob to increase (clockwise) or decrease (counterclockwise) the parameter by the specified step.

8. CL&MATH Function Keys

- Math: performs math operation on the measurement data.
- Cal: calibrates the port parameters under test for the device.

9. Arrow Keys

- Editable parameter mode: Increase or decrease parameters by the specified step size; the step size for Up/Down keys differs from that of Left/Right keys.
- Non-editable parameter mode: Used to switch system menus

10. Auxiliary Function Keys

- Esc: exists the current input state; or exists the remote control state.
- Back: press this key to delete the number on the left of the cursor.
- Enter: during parameter editing, pressing this key will complete the input.
- Touch Lock: locks the touch screen of the instrument.

11. Numeric Keypad

- 0-9: Enter parameter values and press the Enter key to confirm the input.
- Decimal point: inputs a decimal point.
- +/-: press this key to input the symbol ("+" or "-"). When you press the key for the first time, the parameter symbol "-" is displayed, and when you press it again, "+" is displayed.

12. Test Port

Test signal input/output connector. The LED indicator at the lower left of each test port displays the signal source output status. The LED lights up when a signal is output from the port.

13. LO IN/OUT

LO signal input/output interface.

14. USB HOST Interface

The instrument can act as a “host” and connect to external USB devices. This interface supports U storage devices, mouse, and key board

15. Power Key

Used to turn the instrument on and off. During normal operation, the indicator is solid green.

3.3 Rear Panel

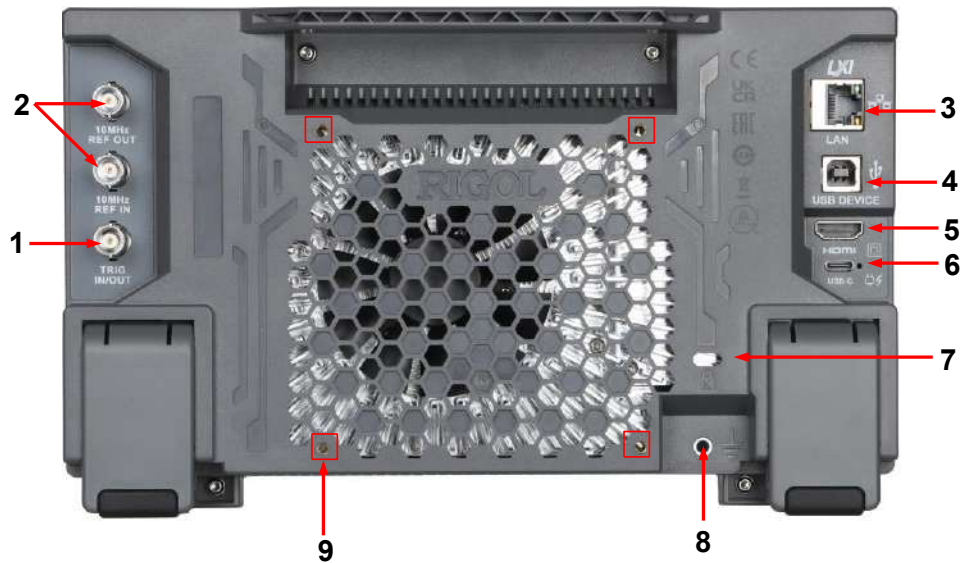


Figure 3.4 Rear Panel of DNA800 Series

1. TRIG IN/OUT

BNC connector. External trigger signals can be input or output through this connector.

2. 10 MHz REF IN/OUT

BNC connector that can output the 10 MHz clock signal generated by the internal crystal oscillator inside the instrument, and can also input an external reference clock signal through this connector.

3. LAN

Connects the instrument to the network. This instrument complies with the LXI CORE 2011 DEVICE instrument standard and enables rapid test system setup. When connected to the network, users can send SCPI Commands to control the instrument via Web Control.

4. USB DEVICE

Connects the instrument to a computer through this interface.

5. HDMI

Connects the instrument to an external display that has the HDMI interface (e.g. monitor or projector) for clearer waveform display. The instrument screen remains active at the same time.

6. Type-C Power Interface

The supported power specification of this instrument is DC, 20 V, 5 A. Use the power adapter supplied in the accessories to connect the instrument to AC power (100~240 V, 50~60 Hz) .

7. Security Lock Slot

Use a standard PC/ laptop security lock cable to secure the instrument to a workbench or other location.

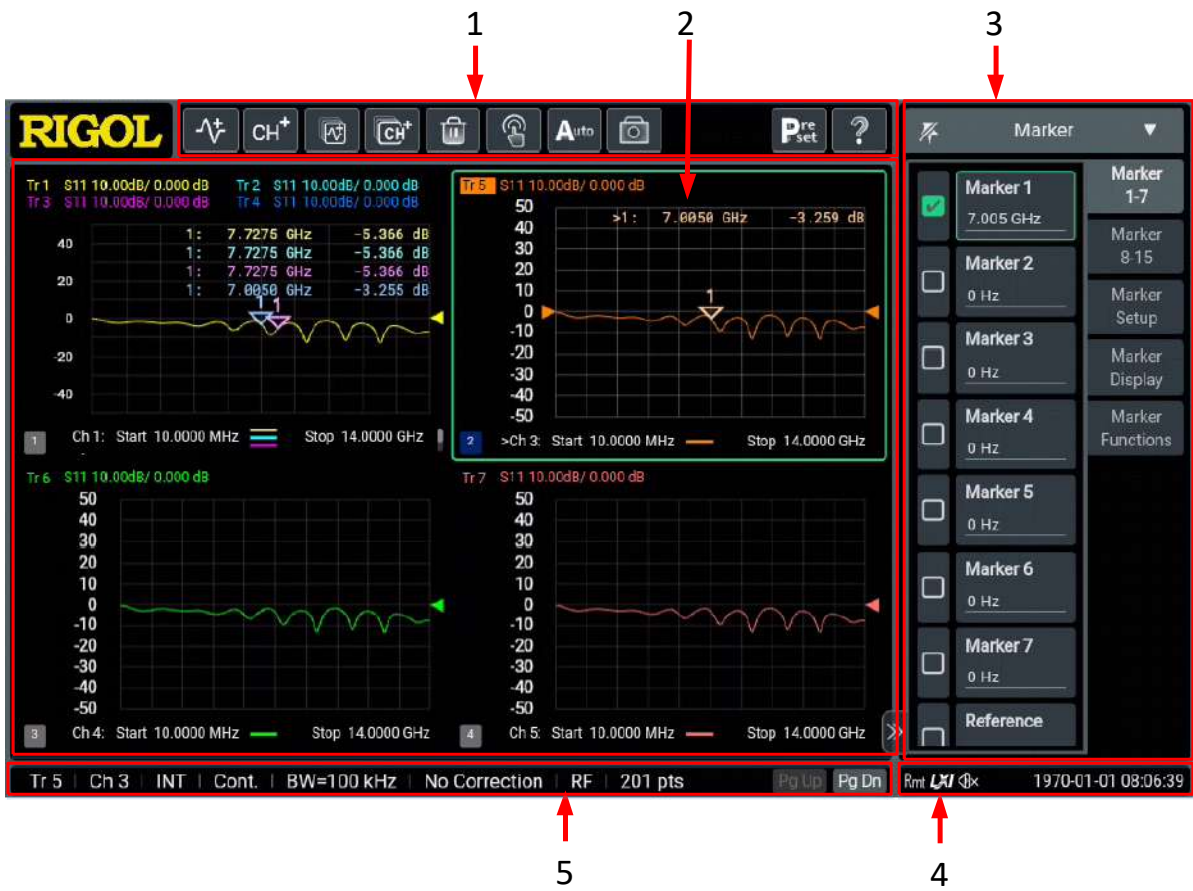
8. Ground Terminal

Connect the chassis to earth ground with a wire.

9. Mounting Screw Holes (VESA 100×100)

Hole spacing is 100 mm×100 mm. Use screws to mount the instrument to a bracket with the same hole spacing.

3.4 User Interface



No.	Description
1	Quick Operation Toolbar
2	Window Display Area
3	Function Menu Area
4	Notification Area

No.	Description
5	System Status Bar

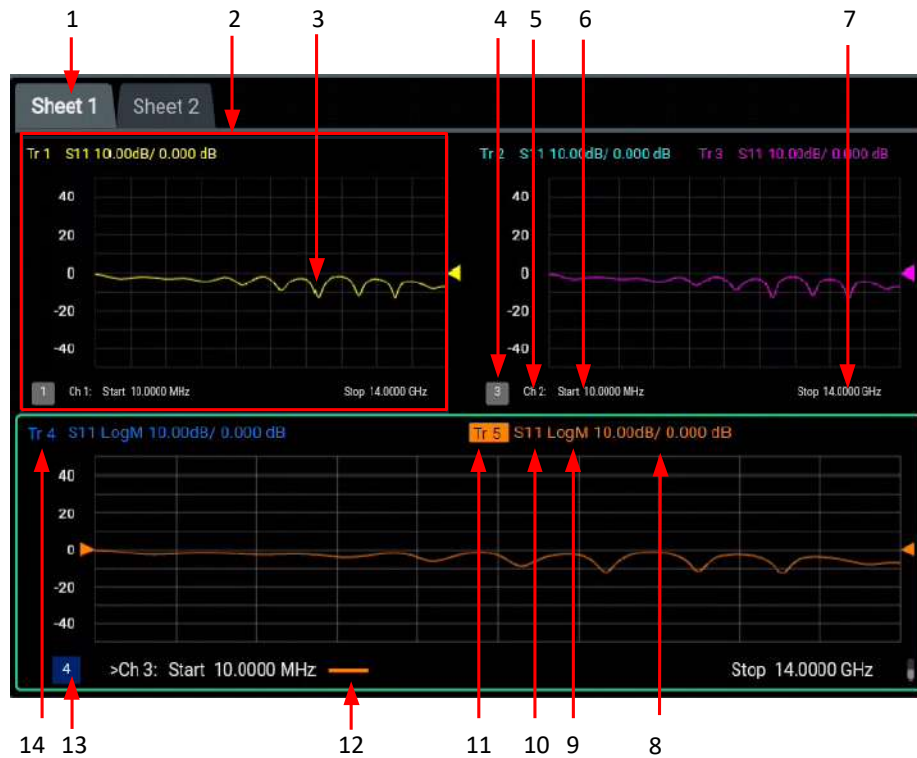
3.4.1 Quick Operation Toolbar

The following figure shows the quick operation toolbar, and the table below it lists the functions of the quick operation keys on the toolbar.



No.	Description
1	Adds a new trace (Trace)
2	Adds a new channel (Channel)
3	Adds a new window (Window) + trace (Trace)
4	Adds a new window (Window) + channel(Channel)
5	● Delete shortcut: Deletes the active trace by default; ● If the current window is empty, the active window will be deleted; ● If the current sheet is empty, the active sheet will be deleted; ● The last sheet cannot be deleted.
6	Manual trigger key.
7	Shortcut key for Auto Scale. Adjusts the parameters to the optimal state of the signal.
8	Saves the screenshot of the current screen.
9	Restores the system settings to the preset state, the same as the front-panel Preset key.
10	Displays the help document.

3.4.2 Window Display Area

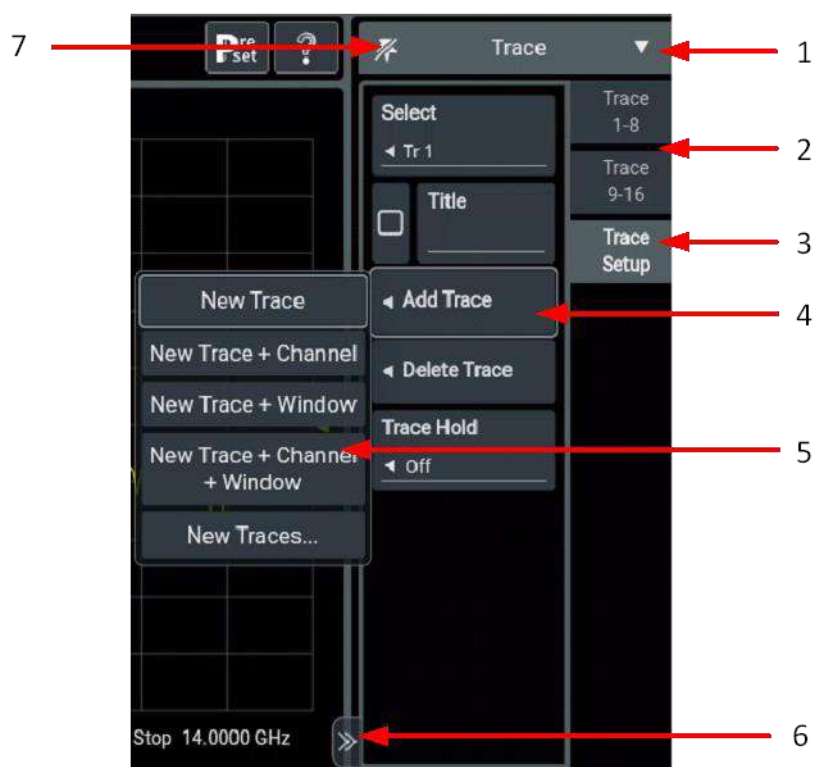


No.	Description
1	Sheet identifier. When there is only one Sheet, the identifier is not displayed Sheet identifier. Click the identifier to switch or rename sheets. Each sheet can contain multiple windows.
2	- Window: It is used to display traces. The definitions of the horizontal axis and vertical axis are determined by measurement parameters and display formats. - By default, a sheet can display a maximum of 4 windows. If more than 4 windows are added, you can switch pages by clicking the Previous Page and Next Page buttons at the bottom right of the screen. The maximum number of display windows per sheet is configurable, with optional values of 1, 2, 4, 6 and 9. - Single-click to activate a selected window; double-click the window area to maximize the window, and double-click again to restore the multi-window layout. - Drag the Y-axis of the window to modify the reference level value.
3	Trace, a set of measurement data points. Click to select a trace as active.
4	Window Number (Unselected State)
5	Channel Number
6	Start Value of Sweep Range

No.	Description
7	Stop Value of Sweep Range
8	Scale value/ reference level (related to the measurement data display format)
9	Trace Data Format; LogM shown in the figure refers to Logarithmic Magnitude.
10	Trace Title, which displays the measured S-parameter by default.
11	Trace Number (Selected State)
12	Trace identifier under the channel; the identifier color is consistent with the corresponding trace color.
13	Window Number (Selected State)
14	Trace Number (Unselected State)

3.4.3 Function Menu Area

Enter the Function Menu to make the settings.



No.	Description
1	Function menu name. Click the drop-down button on the right to switch to another function menu.
2	Level-2 function menu(deselected state)
3	Level-2 function menu (selected state)
4	Level-3 function menu. Click < in the button to display the next-level menu
5	Level-4 function menu
6	Show/hide button for the function menu /
7	Function menu pin button: unlocked by default. Once locked, the function menu remains open and will not auto-close.

3.4.4 Notification Area

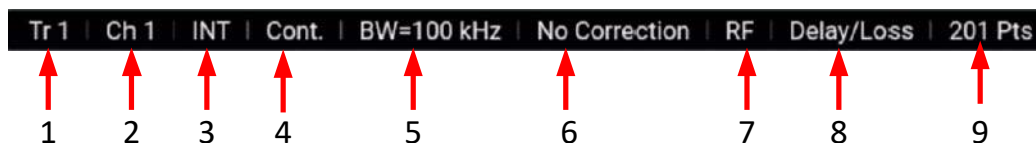
Displays LAN icon, sound icon, and remote control icon as well as date and time. You can click or tap this area to open the "System" menu.



1. Remote control icon: When the instrument is remotely controlled via Web Control, Rmt is displayed in this area.
2. LAN interface connection icon: When the LAN interface is connected successfully, the icon is displayed in this area.
3. Sound icon: Click this icon to turn sound on or off. When sound is on , the  icon is displayed in this area; when sound is off, the  icon is displayed.
4. Date: Displays the system date. The system date can be set.
5. Time: Displays the system time. The system time can be set.

3.4.5 System Status Bar

Displays the main parameters of the current system status.

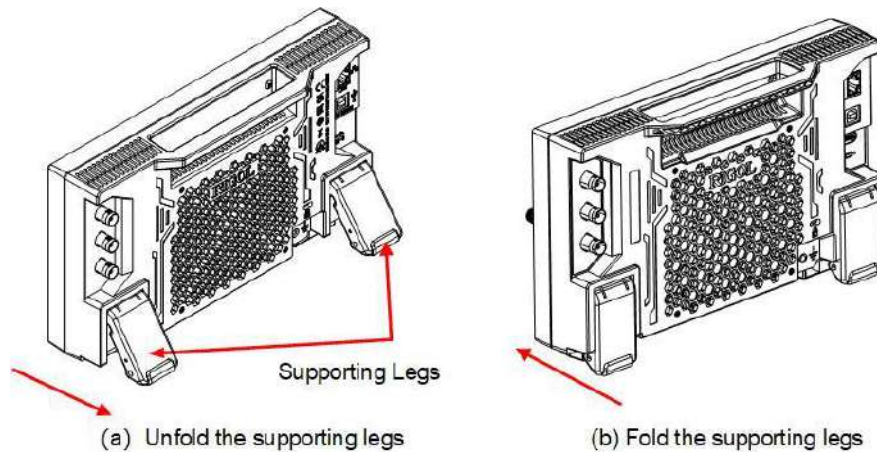


1. Number of the currently selected trace
2. Number of the currently selected channel
3. Trigger source. Internal trigger is shown here and can be configured in the Trigger menu.
4. Trigger mode. Continuous trigger is shown here and can be configured in the Trigger menu.
5. IF bandwidth, which can be set in the Average and Bandwidth menu.
6. Calibration status. After calibration, the calibration type is displayed; when not calibrated, NO Correction is displayed.
7. Internal stimulus source status, which indicates the RF power enable status of all channels. The icon turns gray when disabled.
8. Enable status of the port extension function. Delay refers to time delay compensation, and Loss refers to loss compensation. This item will not be displayed when the port extension function is disabled.
9. Number of sweep points, which can be configured in the sweep menu.

4 To Prepare for Use

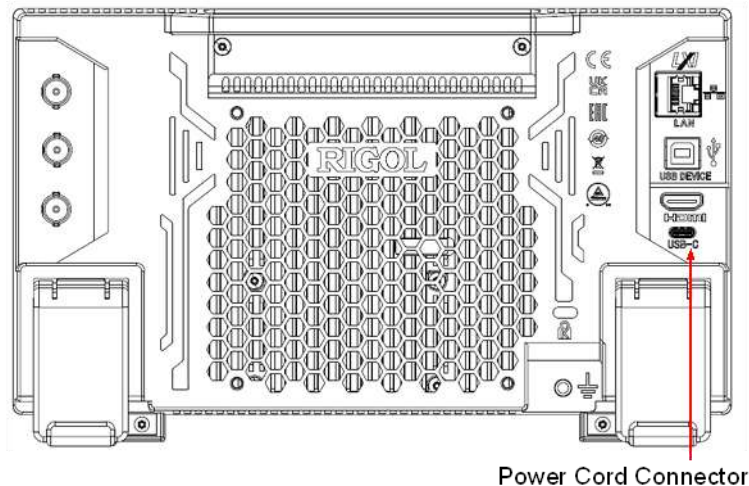
4.1 To Adjust the Support Legs

Adjust the supporting legs properly to use them as stands to tilt the instrument upwards for stable placement of the instrument to better operate and observe. You can fold the supporting legs for easier storage and shipment when the instrument is not in use. See the figure below.



4.2 To Connect to Power

Use the dedicated power adapter (PA-1101-66) for the complete unit to connect to mains power. The instrument automatically adapts to the voltage range without manual selection.



CAUTION

To avoid electric shock, ensure that the instrument is correctly grounded.

4.3 Turn-on Checkout

Power On:

- After the power supply is properly connected, press the power key at the lower left corner of the front panel to start the instrument. During startup, the instrument performs initialization and self-test. The startup screen appears after self-test is completed.
- Click or tap the Notification Area and select **Setting > Power Switch** in the displayed System menu. Set the Power Switch to ON. The instrument will be powered on automatically after the instrument is connected to power.

Power Off:

- Press the power button, then tap OK in the pop-up "Are you sure to shutdown ?" prompt window to shut down the instrument.
- Press twice to directly shut down the instrument.
- Press for three seconds to directly shut down the instrument.

4.4 To Set the System Language

This series supports multiple system languages. To select the desired language, click or tap the notification area at the lower-right corner of the screen to select **Setting > Language** .

5 Basic Operation

This chapter introduces the basic operation of the instrument.

5.1 Mouse/Keypad Board/Touch Screen Operation Rule

Mouse Operation Rule

You may connect a mouse to this instrument via the USB HOST interface.

(Note: Only the left mouse button is supported; the scroll wheel and right mouse button are not available.)

You can perform the following operations:

1. Single-click to select menus and windows.
2. Under the Marker function, the mouse only supports moving markers; adding new markers is not supported.

Keypad Board Operation Rule

You can connect a keyboard to the instrument via the USB HOST interface.

Touch Screen Operation Rule

The front panel of this instrument is a 7" capacitive multi-touch screen, supporting the following gesture operations.

Tap gesture: Lightly tap an icon or text on the screen with one finger.

- Tap menus and function keys to configure functions.
- Tap the input field and the virtual keypad will pop up for parameter setting.
- Tap the window and its tab bar to perform operations on the window.

Drag gesture: Press and hold the target with one finger and drag.

You can drag slider controls in menus to adjust function parameters.

5.2 Parameter Setting

Parameter input can be completed via the front-panel numeric keypad, knob, or arrow keys, or via the touch screen or an external keyboard or mouse. Parameters can be set in the following ways.

1. Numeric keypad:

When an input box is selected, use the front-panel numeric keypad to set parameters.

2. Use the front-panel knob

When a parameter is editable, rotate the knob to increase (clockwise) or decrease (counterclockwise) the parameter by the specified step.

3. Arrow keys

When the parameter is in editing mode, use the arrow keys to increase or decrease the parameter value at the specified step. Note that the step sizes for the Up/Down arrow key and the Left/Right arrow key are different.

4. Touchscreen

Tap the touch screen to select an input box, and use the pop-up virtual keyboard to set parameters.

5. External keyboard

When an input box is selected, use an external keyboard to set parameters.

6. External mouse

Use an external mouse to select a parameter input box, and use the pop-up virtual keyboard to set parameters.

5.3 To Use the Built-in Help System

The built-in help document of the vector network analyzer provides information about the functions and menu introductions of the instrument.

Click or tap on the help icon on the quick operation toolbar at the top of the main interface, then the Help documentation is displayed. You can get its help information by clicking on the link for the introduction of the specified function.

5.4 View Option Information and Install Options

This series of vector network analyzers provides various options to meet your measurement requirements. To use an option function, first order the corresponding option according to the order number provided in the Data Sheet of this product series, and then install it according to the instructions in this section. You can also view the options currently installed in the instrument and activate newly purchased options.

1. View Installed Options

If options are currently installed in your instrument, perform the following operations to view the option name and detailed information of the installed options in the option list.

Click the notification area at the lower right corner of the screen to open the system menu. Click Option List to view the list of installed options.

2. Install Options

An option license code (License, one for each instrument) is a fixed-length text string. An option license file is a file in a specific format with the extension “.lic”. After you successfully purchase the required option, you will receive the corresponding key (used to obtain the option license code). Install the option as follows.

a. Obtain the Option License Code

Log in to the RIGOL website (<http://www.rigol.com>), click **SERVICE CENTER** > **LICENSE ACTIVATION** to enter the license registration page;

On the software license registration page, enter the correct key, instrument serial number (obtain the serial number in the system menu by clicking **About This Instrument**), and verification code, and then click **Generate** to obtain the download link of the option license file.

b. Install Options

Options can be installed by executing SCPI Commands. For details, refer to the Programming Guide of this product series. After installation is completed, the message “Option activated successfully” is displayed on the screen. It is recommended to restart the instrument after option installation.

Tip



- During the installation process, you are not allowed to power off the instrument.
 - Installing options by sending SCPI Commands is supported. Installing options by inputting the license code manually is not supported.
-

5.5 Remote Control

This instrument supports Web Control remote operation. Web Control is Web-based remote control operation. With Web control, you can access and operate the LAN-connected instrument via the web page on any smart terminals such as PC, mobile, and iPad, without needing to install any software. The operation procedures are as follows:

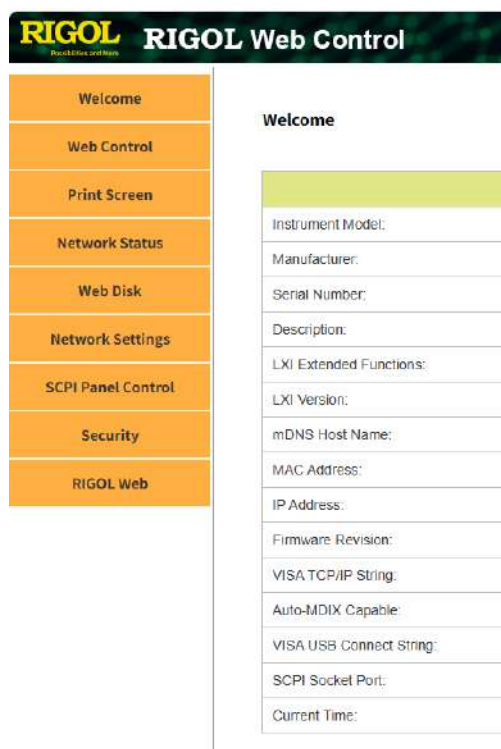
1. Connect the Instrument to the Network

Ensure that the rear-panel LAN interface is connected to the network. Note that the instrument must be connected to the network where the control terminal is located, and accessed through that network, before remote control is possible.

2. Obtain the Instrument IP Address

Enter the **System** menu, click **Interface Settings**, and view the instrument IP address.

Input the IP address of the instrument into the browser address bar, then press Enter to access the web page, as shown in the following figure.



3. Click **Web Control** on the left side of the screen to enter the instrument remote control interface.

You can use the mouse to remotely control the instrument in real time, with the same effect as operating the instrument directly.

4. Click **Print Screen** Print Screen to take a screenshot of the current screen interface, or record the screen. Select Take Screenshot or Record Screen.

5. Click **Web Disk** to manage files stored in the instrument's internal memory, and upload or download files via the network.

6. Click **Network Settings** to configure the network. Note that login is required when changing the network configuration. When you first log in to the Web Control, use the user name "admin" and the password "rigol".

7. SCPI Panel Control allows users to send SCPI Commands through the Web interface directly to the instrument. Click **SCPI Panel Control**. In the SCPI input box, enter a command and click SCPIPanel Control, in the SCPI Command input box, enter a command and click Send&Read to send the command.

Users can program and control the instrument through standard SCPI (Standard Commands for Programmable Instruments) commands. For detailed descriptions of commands and programming, refer to the Programming Guide of this product series.

8. Close the browser to exit the instrument remote control interface.

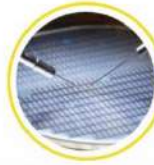
Only one user can access the instrument IP address for remote control operation at a time. First come, first served. Concurrent logins are not allowed. If the connection is interrupted, you can refresh the browser to load the page.

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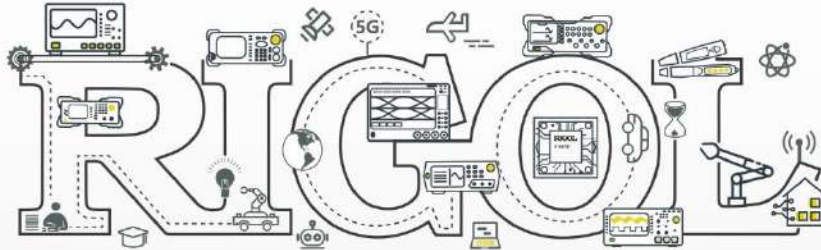
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