



RIGOL

MHO98

Digital Oscilloscope

Quick Guide

Sept. 2025

Guaranty and Declaration

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If you have any problem or requirement when using our products or this manual, please contact RIGOL.

E-mail: service@rigol.com

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1 Safety Requirement

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



WARNING

Equipment meeting Class A requirements may not offer adequate protection to broadcast services within residential environment.



WARNING

This product is a non-isolated oscilloscope. The ground (GND) for each input and output interface is not isolated from the metal chassis or the digital interface grounds (such as USB and HDMI). Do not perform floating measurements without using isolated probes, nor connect any port's GND to a port with a voltage difference relative to earth ground. Otherwise, it may cause damage to this product or other devices (such as the DUT or a computer display) connected to the product and can even cause serious personal injury.

1.2 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:



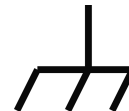
Hazardous
Voltage



Safety Warning



Protective Earth
Terminal



Chassis Ground



Test Ground

1.3 Measurement Category

Measurement Category

This instrument can make measurements in Measurement Category I.



WARNING

This instrument can only be used for measurements within its specified measurement categories.

Measurement Category Definitions

- **Measurement category I** is for measurements performed on circuits not directly connected to MAINS. Examples are measurements on circuits not derived from MAINS, and specially protected (internal) MAINS derived circuits. In the latter case, transient stresses are variable. Thus, you must know the transient withstand capability of the equipment.
- **Measurement category II** is for measurements performed on circuits directly connected to low voltage installation. Examples are measurements on household appliances, portable tools and similar equipment.
- **Measurement category III** is for measurements performed in the building installation. Examples are measurements on distribution boards, circuit-breakers, wiring (including cables, bus-bars, junction boxes, switches and socket-outlets) in the fixed installation, and equipment for industrial use and some other equipment. For example, stationary motors with permanent connection to a fixed installation.
- **Measurement category IV** is for measurements performed at the source of a low-voltage installation. Examples are electricity meters and measurements on primary overcurrent protection devices and ripple control units.

1.4 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.

1.5 Working Environment

Temperature

Operating: 0°C to +50°C

Non-operating: -30°C to +60°C

Humidity

- **Operating:**
 - Below +30°C: ≤90%RH (without condensation)
 - +30°C to +40°C: ≤75% RH (without condensation)

+40°C to +50°C: ≤45%RH (without condensation)

- **Non-operating:**

Below +60°C: ≤90%RH (without condensation)



WARNING

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

Altitude

- **Operating:** below 3 km
- **Non-operating:** below 15 km

Protection Level Against Electric Shock

ESD ±8kV

Installation (Overvoltage) Category

This product is powered by mains conforming to installation (overvoltage) category II.



WARNING

Ensure that no overvoltage (such as that caused by a bolt of lightning) can reach the product. Otherwise, the operator might be exposed to the danger of an 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

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. To be found in industrial

environment or construction sites (harsh environments). 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 2

1.6 Care and Cleaning

Care

Do not store or leave the instrument where it may be exposed to direct sunlight for long periods of time.

Cleaning

Clean the instrument regularly according to its operating conditions.

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.

1.7 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.

2 Document Overview

This manual gives you a quick review about the front and rear panel of MHO98 digital oscilloscope, its user interface, and the basic operation method.



TIP

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

Publication Number

QGA45101-1110

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

The front panel key is denoted by the menu key icon. For example, indicates the "DEFAULT" key.



2. Menu

The menu item is denoted by the format of "Menu Name (Bold) + Character Shading" in the manual. For example, **Setup** indicates clicking or tapping the **Setup** sub-menu under the "Utility" function menu to view the basic setting configuration items.

3. Operation Procedures

The next step of the operation is denoted by ">" in the manual. For example,



> **Storage** indicates that first clicking or tapping the icon , then clicking or tapping **Storage**.

4. Connector

The connectors on the front or rear panel are denoted by the format of "Connector Name (Bold) + Square Brackets (Bold)". For example, **[AUX OUT]**.

Content Conventions in this Manual

The bandwidth and channels of MHO98 are as follows: This manual mainly introduces its basic operation.

Model	Max. Analog Bandwidth	No. of Analog Channels
MHO98	1 GHz (single-channel ^[1]) 800 MHz (half-channel ^[2]) 400 MHz (all-channel ^[3])	4

**NOTE**

[1]: Single-channel mode: If any one of the channels is enabled, it is called single-channel mode.

[2]: Half-channel mode: If two of the channels are enabled, it is called half-channel.

[3]: All-channel mode: If all of the channels are enabled or any three of the channels are enabled, it is called all-channel mode.

3 General Inspection

1. Inspect the packaging

If the packaging has been damaged, do not dispose the damaged packaging or cushioning materials until the shipment has been checked for completeness and has passed both electrical and mechanical tests.

The consigner or carrier shall be liable for the damage to the instrument resulting from shipment. RIGOL would not be responsible for free maintenance/rework or replacement of the instrument.

2. Inspect the instrument

In case of any mechanical damage, missing parts, or failure in passing the electrical and mechanical tests, contact your RIGOL sales representative.

3. Check the accessories

Please check the accessories according to the packing lists. If the accessories are damaged or incomplete, please contact your RIGOL sales representative.

Recommended Calibration Interval

RIGOL suggests that the instrument should be calibrated every 18 months.

4 Product Overview

MHO98 is RIGOL's new launched economical oscilloscope. Compact in size, it features 1,000,000 wfms/s^[1] capture rate (in fast recording mode), up to 500 Mpts memory depth, 12-bit high resolution and low noise.

This chapter introduces the appearance and dimensions of MHO98, its front and rear panel, as well as its user interface.



NOTE

[1]: Single-channel mode, recording mode, 20 ns/div, 1 kpts memory depth (or Auto memory depth).

4.1 Appearance and Dimensions

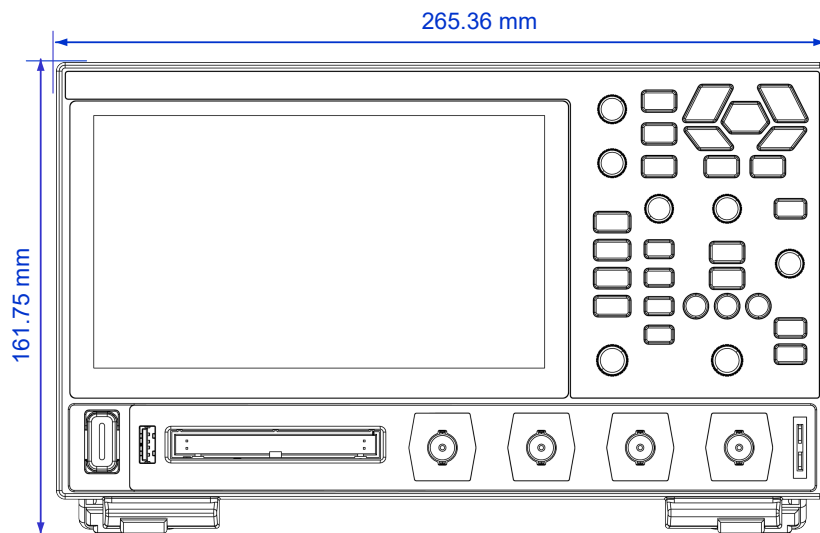


Figure 4.1 Front View

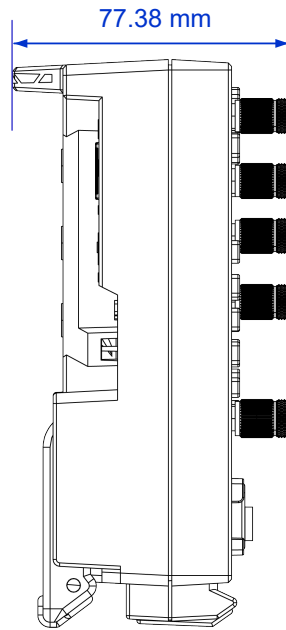


Figure 4.2 Side View

4.2 Front Panel

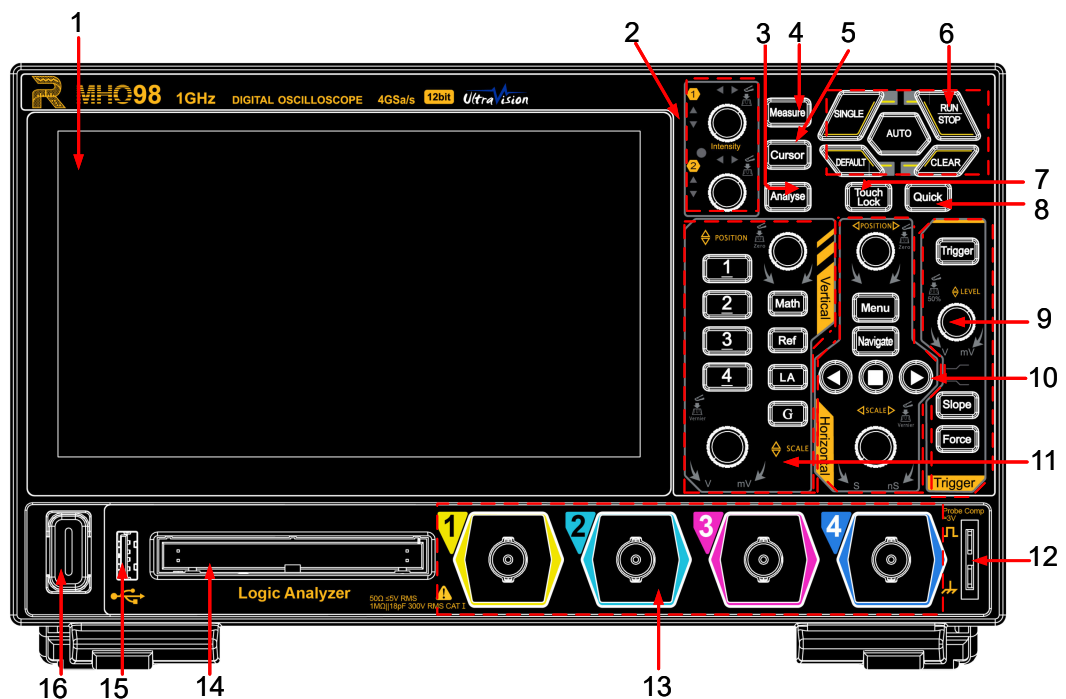


Figure 4.3 Front Panel

- | | | | |
|---|----------------------------------|----|-------------------------|
| 1 | 7" Capacitive Multi-touch Screen | 9 | Trigger Control Area |
| 2 | Multifunction Knob | 10 | Horizontal Control Area |

3	Analyse Key	11	Vertical Control Area ^[1]
4	Measure Key	12	Probe Compensation Signal Output Terminal/Ground Terminal
5	Cursor Key	13	Analog Channel Input Terminals
6	Common Operation Key	14	Digital Channel Input Terminal
7	Touch Screen Lock Key	15	USB HOST Interface
8	Quick Operation Key (Related to quick operation setting)	16	Power Key

**NOTE**

[1]: In the vertical control area, **G** indicates the Function/Arbitrary Waveform Generator (AFG) key. GI and GII connectors are standard hardware configuration. This instrument has a standard configuration of two-channel, 100 MHz, 1 GSa/s Function/Arbitrary Waveform Generator (Bode plot function supported).

4.3 Rear Panel

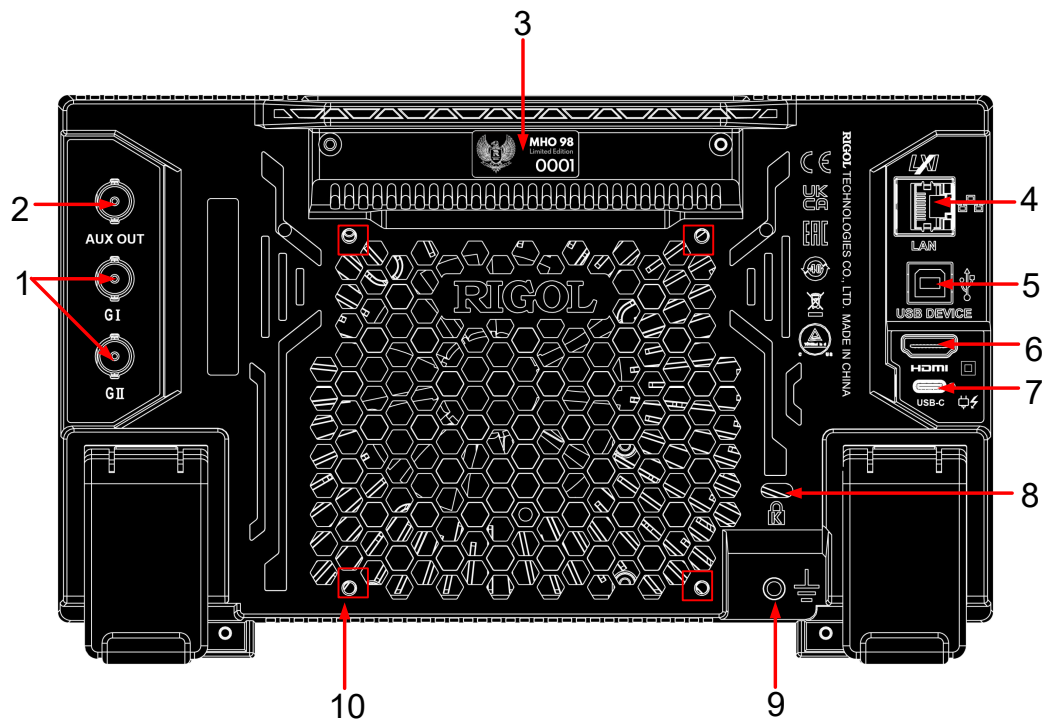


Figure 4.4 Rear Panel

- 1 Function/Arbitrary Waveform Generator Output Interface GI/GII
- 2 AUX OUT Output Interface
- 3 Limited Edition Nameplate
- 4 LAN Interface
- 5 USB DEVICE Interface

- 6 HDMI Video Output Interface
- 7 USB Type-C Power Interface
- 8 Security Lock Hole
- 9 Ground Terminal
- 10 Bracket Mounting Hole (VESA 100x100)

4.4 User Interface

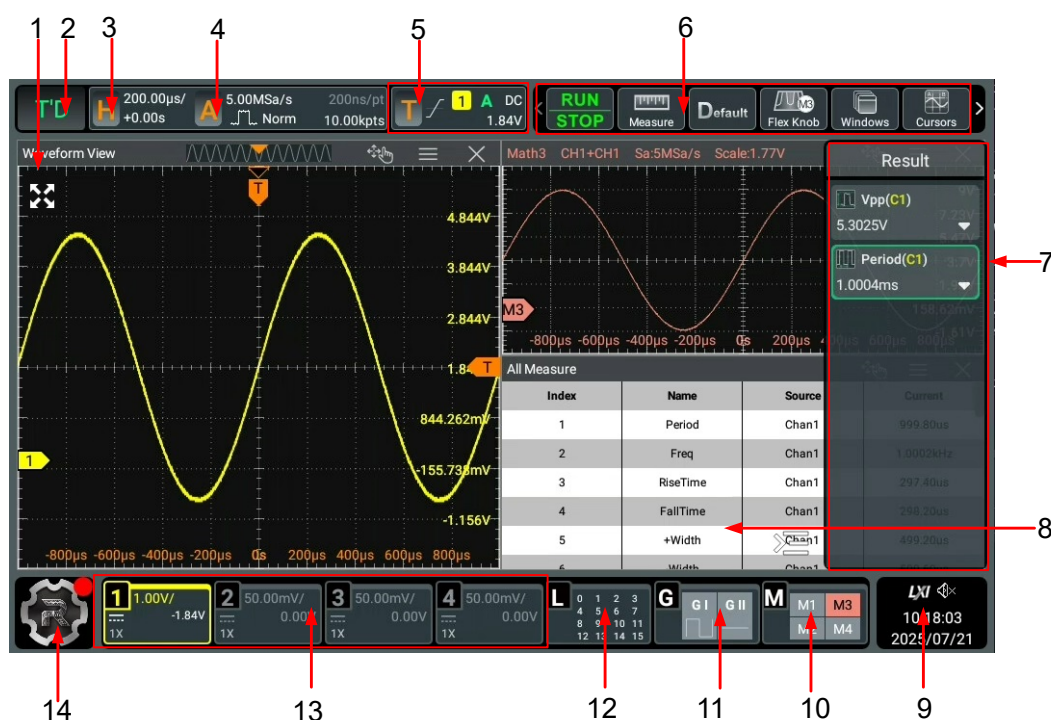


Figure 4.5 User Interface

- | | | | |
|---|---|----|---|
| 1 | Waveform View | 8 | Multi-pane Windowing Display Area |
| 2 | Operating Status | 9 | Notification Area |
| 3 | Horizontal Timebase and Horizontal Position Label | 10 | Math Operation Label |
| 4 | Sample Rate & Memory Depth Label | 11 | Function/Arbitrary Waveform Generator (AFG) Label |
| 5 | Trigger Information Label | 12 | Digital Channel Label |
| 6 | Quick Operation Toolbar | 13 | Channel Status Label |
| 7 | Result List | 14 | Function Navigation Icon |

5 To Prepare for Use

5.1 To Adjust the Supporting Legs

Adjust the supporting legs properly to use them as stands to tilt the oscilloscope upwards for stable placement of the oscilloscope, making it easy to operate and better to observe waveforms. You can also fold the supporting legs when the instrument is not in use for easier storage or shipment, as shown in the following figure.

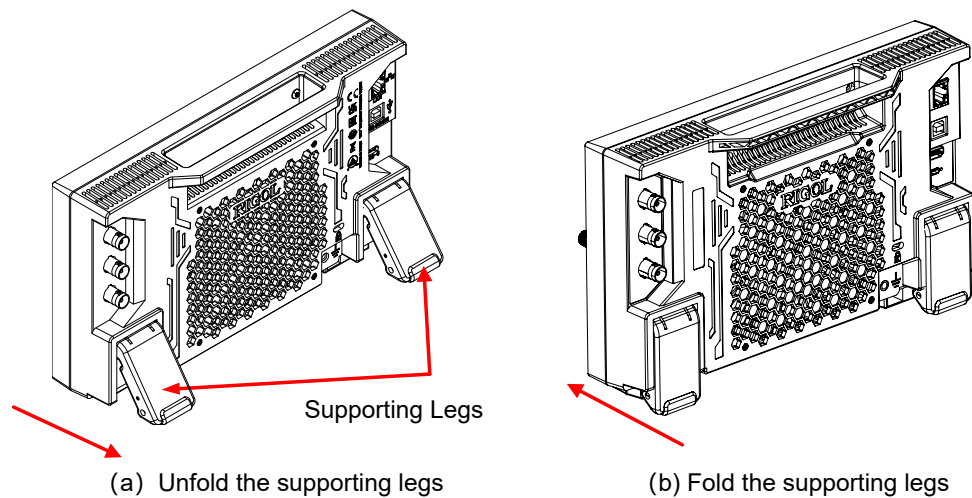


Figure 5.1 To Adjust the Supporting Legs

5.2 To Connect to AC Power

The power requirements of the oscilloscope are DC, 20 V, 5 A. Please use the power adapter provided in the accessories to connect the oscilloscope to the AC power source (100 V to 240 V, 50 Hz to 60 Hz), as shown in the following figure.

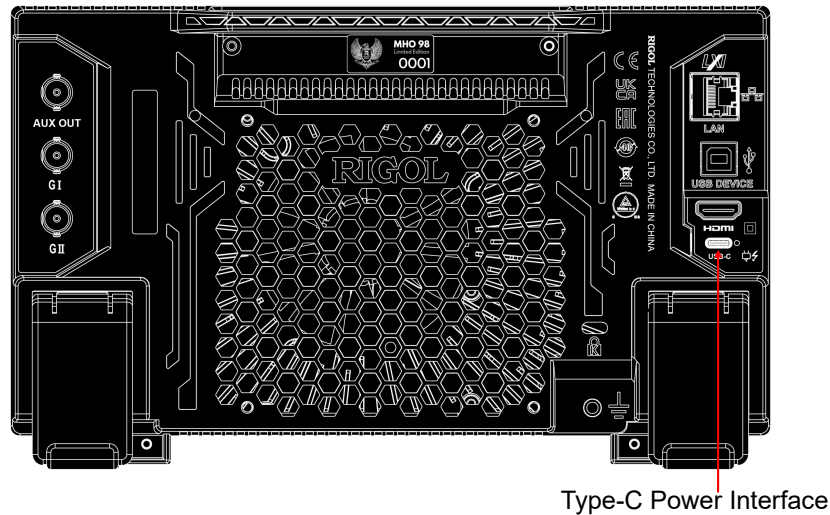


Figure 5.2 Connect to AC Power

Table 5.1 Power Adapter Specification

Parameter	Remarks
Input	100 V to 240 V, 50 Hz to 60 Hz, 1.6 A Max
Output	DC, 20 V, 5 A, 100 W

**CAUTION**

The power adapter provided in the accessories can only be used for RIGOL specified products. Do not use it to charge the mobile phone or other devices.

**WARNING**

To avoid electric shock, use the ground cable provided in the accessories to connect the instrument to the ground properly.

5.3 Turn-on Checkout

After the instrument is connected to the power source, press the power key  at the lower-left corner of the front panel to power on the instrument. During the start-up process, the instrument performs a series of self-tests. After the self-test, the splash screen is displayed.

- **Restart:** Click or tap the function navigation icon  at the lower-left corner of the screen to enter the function navigation. Click or tap **Power** > **Restart** to restart the instrument.

- **Shutdown:**

- Click or tap the function navigation icon  at the lower-left corner of the screen to enter the function navigation. Click or tap **Power** > **Shutdown** to shut down the instrument.
- Press down the power key , then the power state switching window is displayed. Click or tap **Shutdown** to shut down the instrument.
- Press the power key  continuously for two times to turn off the instrument.
- Long press the power key  for three seconds to turn off the instrument.

- **Low Power Mode:**

Click or tap the function navigation icon  at the lower-left corner of the screen to enter the function navigation. Click or tap **Power** > **Low Power Mode** to enter the low power mode.

In the low power mode, the instrument has the following characteristics.

- **It can start quickly with low power consumption.** The instrument can be waken up in just a few seconds. Then it automatically recovers all of its configurations prior to the low power mode.
- **Low power consumption:** In this mode, the screen is off. Most of the measurement hardware (e.g. ADC, front-end amplifier) will be powered off or enter the low power consumption mode. At this time, the power consumption of the instrument is far less than that in its normal operating state.
- **Many ways to wake up the instrument:** To wake up the instrument, press any key on the front panel or rotate the knob. You can also send the SCPI command :SYSTem:LOWPower 0 via the communication interface to wake up the instrument.

NOTE

Note that once it enters the low power mode, the last captured waveform data will not be saved when you wake it up from the low mode mode. If necessary, please remember to save the data manually before it enters the low power mode.

TIP

You can also click or tap  > **Utility** > **Setup**. Then select "Switch On" for the "Power status" menu. After the instrument is connected to power source, it will start directly.

5.4 To Set the System Language

This oscilloscope supports multiple languages. You can click or tap  > **Utility** > **Setup** > **Language** to select the system language.

5.5 To Connect the Probe

RIGOL's MHO98 oscilloscope provides the passive probe and the logic analyzer probe. For specific probe models, please refer to *MHO98 DataSheet*. For detailed technical information of the probes, please refer to the corresponding Probe User Guide.

Connect the Passive Probe

1. Connect the BNC terminal of the probe to the front-panel analog channel input terminal of the oscilloscope, as shown in the figure below.
2. Connect the ground alligator clip or spring of the probe to the circuit ground terminal, and then connect the probe tip to the circuit point to be tested.

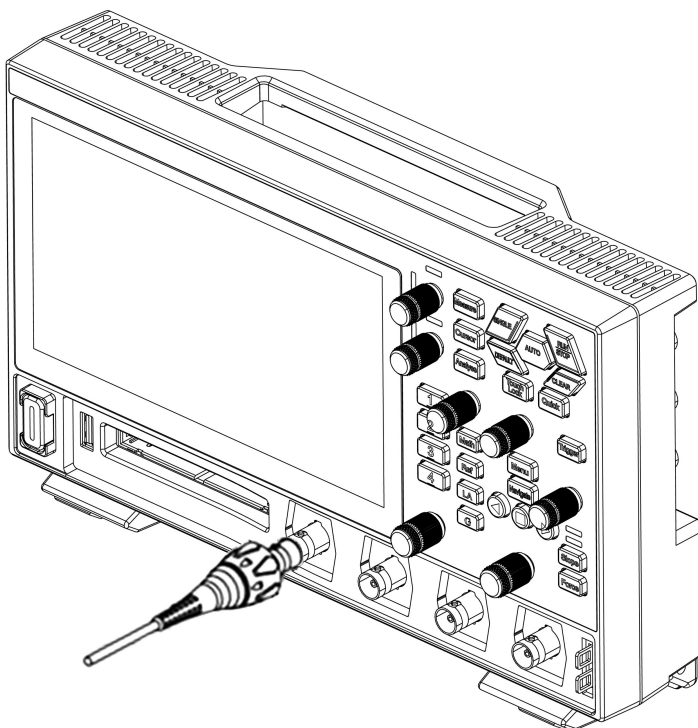


Figure 5.3 Connect the Passive Probe

After you connect the passive probe, check the probe function and probe compensation adjustment before making measurements. For detailed procedures, refer to *Function Inspection* and *Probe Compensation*.

Connect the Logic Probe

1. Connect the output terminal of the logic probe to the front-panel digital channel input terminal of the oscilloscope in the correct direction, as shown in the figure below.
2. Connect the input terminal of the logic probe to the signal terminal under test. MHO98 has a standard configuration of PLA2216 active logic analyzer probe. To apply to different application scenarios, PLA2216 provides two connection methods to connect the signal under test. For details, refer to *PLA2216 Active Logic Probe User Guide*.

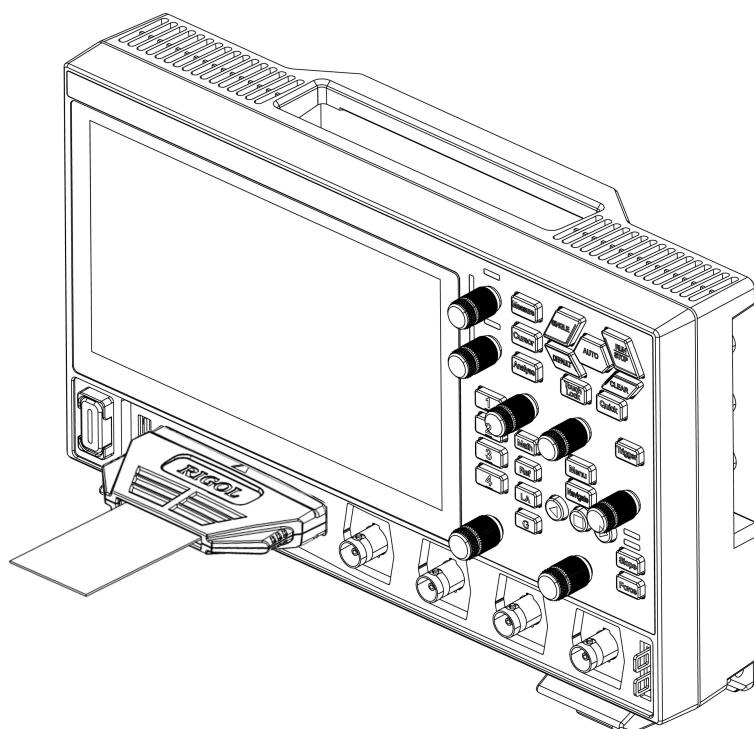


Figure 5.4 Connect the Logic Probe



CAUTION

The digital channel input terminal does not support hot plugging. Please do not insert or pull out the logic probe when the instrument is in power-on state.



TIP

- For ground connection of high-speed signals, the ground lead shall be connected to the ground test point near the measured signal, and the ground lead shall be kept as short as possible.
- If there are a large number of input signal channels, please connect each signal to a ground signal as far as possible. If there is only one ground test point, connect all ground leads on the probe to the ground test point.

- Set a proper threshold value for the logic probe according to the actual level range of the signal under test. Set the threshold value to the middle of the level range.

5.6 Function Inspection

- Press  on the front panel, then a prompt message displaying "Restore default settings?" appears on the screen. Click **OK** to restore the instrument to its factory default settings.
- Connect the ground alligator clip of the probe to the "Ground Terminal" as shown in *Figure 5.5* below.
- Use the probe to connect the input terminal of CH1 of the oscilloscope and "Compensation Signal Output Terminal" shown in *Figure 5.5*.

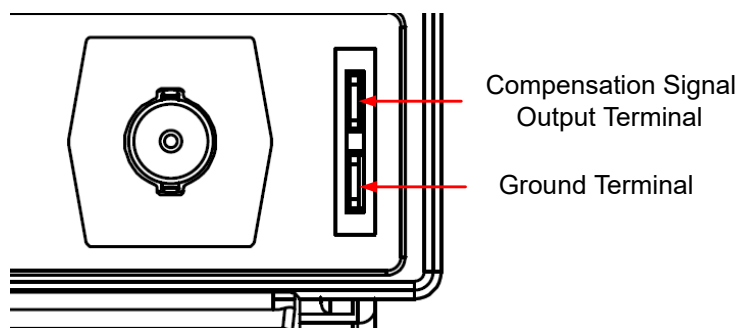


Figure 5.5 Use the Compensation Signal

- Set the probe ratio based on the attenuation of the probe, and then click  > **Auto**.
- Observe the waveform on the display. In normal condition, the square waveform as shown in the figure below should be displayed.



Figure 5.6 Square Waveform Signal

6. Use the same method to test the other channels. If the signal appears but not properly displayed or deformed, please perform the instructions specified in *Probe Compensation*. If no signal appears, please perform the above steps again.

**WARNING**

To avoid electric shock when using the probe, please make sure that the insulated wire of the probe is in good condition. Do not touch the metallic part of the probe when the probe is connected to high voltage source.

5.7 Probe Compensation

When used for the first time, the oscilloscope probe must be compensated to match the input characteristics of the oscilloscope channel to which it is connected. The non-compensated or poorly compensated probe may cause measurement errors. The compensation procedure is as follows:

1. Perform Step 1, 2, 3 and 4 in **Function Inspection**.
2. Check the displayed waveforms and compare them with the waveforms shown in *Figure 5.7*.

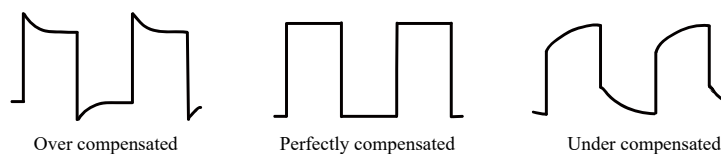


Figure 5.7 Probe Compensation

3. Use the probe compensation adjustment tool provided in the accessories to adjust the low-frequency compensation adjustment hole on the probe until the displayed waveform is consistent with the "Perfectly compensated" waveform shown in the above figure.

6 Touch Screen Gestures

The instrument provides a super large capacitive touch screen, which is convenient for users to operate and make configurations. It has strong waveform display capacity and excellent user experience. It features great convenience, high flexibility, and great sensitivity. The actions supported by the touch screen controls include tapping, pinching&stretching, and dragging.

6.1 Tap

Use one finger to tap the symbol or characters on the screen slightly, as shown in *Figure 6.1*. With the Tap gesture, you can perform the following operations:

- Tap the menu displayed on the screen to operate on the menu.
- Tap the function navigation icon at the lower-left corner of the touch screen to enable the function navigation.
- Tap the displayed numeric keypad to set the parameters.
- Tap the virtual keypad to set the label name and the filename.
- Tap the close button at the upper-right corner of the message box to close the prompt window.
- Tap other windows on the touch screen and operate on the windows.



Figure 6.1 Tap Gesture

6.2 Drag

Use one finger to select the object, and then drag the object to a destination place, as shown in the figure below. With the drag gesture, you can perform the following operation:

- Drag the waveform to change its position or scale.
- Drag the window controls to change the position of the window (e.g. numeric keypad).
- Drag the cursor to move the cursor.
- Drag the trigger cursor to change the trigger level.
- In multi-window display, drag one of the displayed windows to change its position on the display.

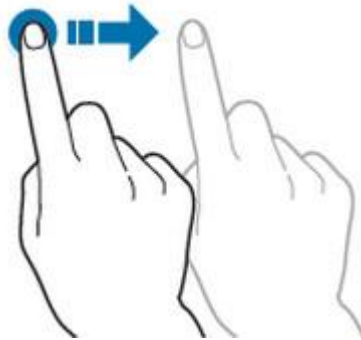


Figure 6.2 Drag Gesture

6.3 Pinch&Stretch

Pinch or stretch two points on the screen with two fingers to zoom in or out the waveform. To zoom in the waveform, first pinch the two fingers and then stretch the fingers; to zoom out the waveform, first stretch the two fingers, and then pinch the fingers together, as shown in the figure below. With the pinch&stretch gesture, you can perform the following operation:

- Pinching&stretching in the horizontal direction can adjust the horizontal time base of the waveform.
- Pinching&stretching in the vertical direction can adjust the vertical scale of the waveform.



Figure 6.3 Pinch&Stretch Gesture

7 To Use the Built-in Help System

The built-in help file provides information about the functions and menu

introductions of the instrument. Click or tap  > **Help** to enter the help system.

In the help system, you can get its help information by clicking on or tapping the link for the specified chapter.

8 Parameter Setting Method

For this instrument, you can use the knob and touch screen to set parameters. The common parameter setting methods are as follows:

- **Method 1:** Some parameters can be adjusted by rotating the knob on the front panel.
- **Method 2:** Click or tap the input field of a specified parameter, then a virtual keypad is displayed. Complete the parameter setting with the keypad.

Input a Value

When setting or modifying a parameter, input an appropriate value with the numeric keypad.

- Click or tap the value or unit in the numeric keypad to complete the input.
- Rotate the multipurpose knob (1/2) to move the cursor to select the desired value and unit. Press the knob to confirm the input.

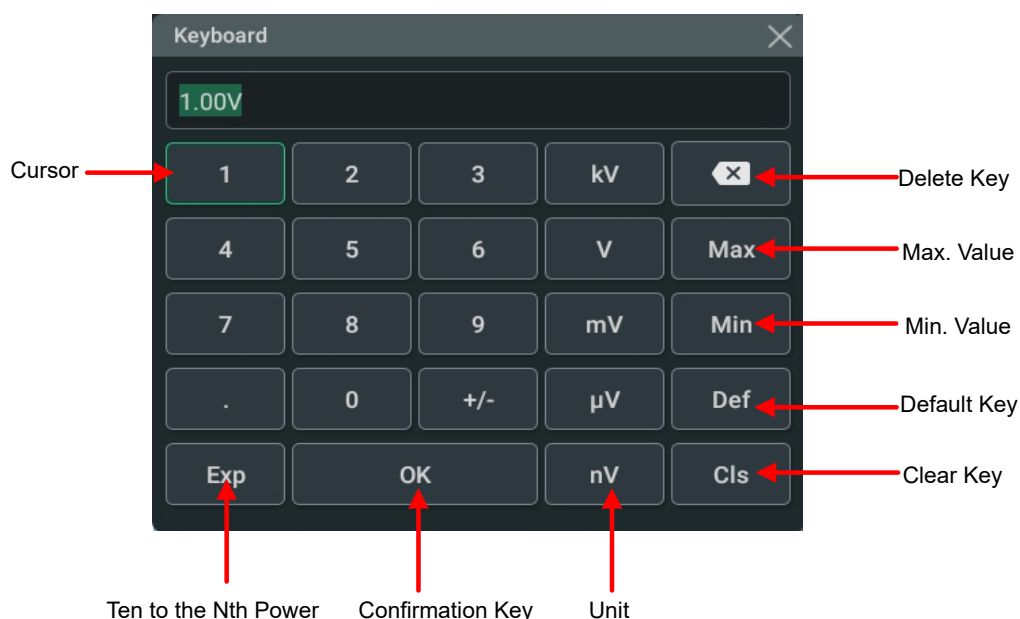


Figure 8.1 Numeric Keypad

After you input all the values and select the desired units, the numeric keypad is turned off automatically. This indicates that you have completed parameter setting. Besides, after you have input the values, you can also click or tap "OK" directly to close the numeric keypad. At this time, the unit of the parameter is the default unit. In the numeric keypad, you can perform the following operations:

- Modify the parameter value that has been input;

- Set the parameter value to a maximum or minimum value;
- Set the parameter to a default value;
- Clear the parameter input field.

9 Bluetooth Setting

In the **Utility** menu, click or tap **Bluetooth** to enter the Bluetooth setting menu. You can connect the oscilloscope to the mouse and keyboard via bluetooth, enabling the mouse control or keyboard input for the oscilloscope.

Click or tap the **Bluetooth** switch to select ON to enable the bluetooth function. Click or tap the **Search** button and the search device menu will pop up. In the pop-up search device menu, the oscilloscope will scan for available Bluetooth devices within range. The paired devices are displayed at the top of the search device menu.

After pairing successfully, devices are saved in the "Paired Device" list. In the Paired Device menu, click or tap **Unpair** to unpair the Bluetooth connection of the device from the oscilloscope.



NOTE

Connect the WIFI& Bluetooth adapter to the USB port on the front panel of the oscilloscope first. WLAN and Bluetooth function are only available when the WIFI& Bluetooth adapter is recognized by the oscilloscope.

10 WLAN Setting

In the **Utility** menu, click or tap **WLAN** to enter the WLAN setting menu. You can connect the oscilloscope to a wireless network.

Click or tap the **WLAN** switch to select ON to enable the WLAN function. Click or tap **Search** and the WIFI list menu is displayed. Available WLANs are displayed in the list, and you can select a desired network for connection. When a secured wireless network is selected, a password input field is displayed. Enter the password and click or tap the **Connect** button, then the oscilloscope connects to this wireless network.

Click or tap the **Saved** button and the saved menu is displayed. In this menu, you can view previously connected wireless networks. Click or tap the **Remove** button of the specified network to remove the previously connected wireless network.



NOTE

- Connect the WIFI& Bluetooth adapter to the USB port on the front panel of the oscilloscope first. WLAN and Bluetooth function are only available when the WIFI& Bluetooth adapter is recognized by the oscilloscope.
- The WLAN of the oscilloscope does not support connecting to SSIDs that require network authentication.

11 Remote Control

The following ways of remote control are supported:

- **User-defined Programming**

Users can program and control the instrument by using the SCPI (Standard Commands for Programmable Instruments) commands. For details about the SCPI commands and programming, refer to Programming Guide of this product series.

- **Web Control**

The instrument supports the Web Control function. Web Control is a browser-based remote control technology that allows the user to remotely access and control the instrument over the network without additional software installation. By using the web browser to remotely access the networked instrument, the control terminals (e.g. PC, Mobile, iPad, and other smart terminals) display the instrument interface in real time. Users can view device information, adjust the oscilloscope's timebase and vertical sensitivity, configure trigger conditions, and more. Operation Procedures are as follows:

1. Connect the instrument to the network

First ensure that the rear-panel LAN interface is connected to the network. Note that the instrument must be connected to and accessed through the network that located in the same network domain as the control terminal.

2. Obtain the instrument IP address

Click or tap the function navigation icon  at the lower-left of the screen. Click or tap **Utility**, and view the instrument IP address under the IO menu.

3. Type the instrument IP address into the browser address bar and press Enter, and the following interface will be displayed.

RIGOL Web Control	
Welcome	
Web Control	
Print Screen	
Network Status	
Network Settings	
SCPI Panel Control	
Security	
RIGOL Web	

Instrument Model:	
Manufacturer:	
Serial Number:	
Description:	
LXI Extended Functions:	
LXI Version:	
Host Name:	
MAC Address:	
IP Address:	
Firmware Revision:	
VISA TCP/IP String:	
Auto-MDIX Capable:	
VISA USB Connect String:	
SCPI Socket Port:	
Current Time:	

4. 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.
5. Click **Print Screen**, and you can select "Take Screenshot" or "Record Screen" to capture the current display content.
6. Click **Network Settings** to configure the network. Note that login is required when changing the network configuration. The default username and password for first-time Web Control login are "admin" and "rigol".
7. The SCPI Panel Control function allows the user to send SCPI commands through the web interface for remote programming control of the instrument. Click **SCPI Panel Control** and enter the commands in the SCPI Command input field. After entering the commands, click the **Send&Read** button to control the instrument remotely. For details about the SCPI commands and programming, refer to Programming Guide of this product series.
8. Close the browser to exit the instrument remote control interface.

The instrument IP address allows only one user to log in for remote login control. Concurrent logins are not allowed. If the connection is interrupted, you can refresh the browser to load the page.

**CAUTION**

Before connecting the communication cable, please turn off the instrument to avoid causing damage to the communication interfaces.

12 More Product Information

Click or tap  > **Utility** > **About** to obtain the information of the instrument, such as the model, serial number, and hardware version number.

For more information about this instrument, refer to the relevant manuals by logging in to the official website of RIGOL (<http://www.rigol.com>) to download them.

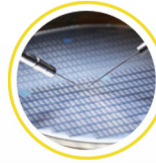
- *MHO98 User Guide* introduces the functions of the instrument and the operation methods, remote control methods, possible failures and solutions in using the instrument, the technical specifications, and order information.
- *MHO98 Programming Guide* provides detailed descriptions of SCPI commands and programming examples of the instrument.
- *MHO98 Data Sheet* provides the main features and technical specifications of the instrument.

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