

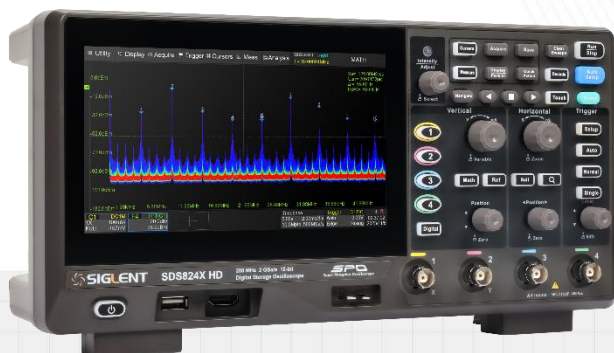
# SDS800X HD Series

## Digital Storage Oscilloscope

### Quick Start EN01B



01189 786911 TELONIC.CO.UK



SIGLENT TECHNOLOGIES CO.,LTD



## Copyright Information

### Declaration

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# Contents

|                                       |    |
|---------------------------------------|----|
| General Safety Summary .....          | 3  |
| Safety Terms and Symbols .....        | 4  |
| Allgemeine Sicherheitsübersicht.....  | 5  |
| Sicherheitsbegriffe und Symbole ..... | 8  |
| General Care and Cleaning .....       | 9  |
| General Inspection.....               | 10 |
| Quick Start.....                      | 11 |
| Front of Oscilloscope .....           | 13 |
| Back of Oscilloscope .....            | 14 |
| Probe Compensation .....              | 15 |
| User Interface .....                  | 16 |
| Basic Operations .....                | 22 |

## General Safety Summary

Carefully read the following safety precautions to avoid any personal injury or damage to the instrument and any products connected to it. To avoid potential hazards, please use the instrument as specified.

### Use Proper Power Cord

Only the power cord designed for the instrument and authorized by local government regulations should be used.

### Ground the Instrument

The instrument is grounded through the protective earth conductor of the power cord. To avoid electric shock, please make certain the instrument is grounded correctly before connecting its input or output terminals.

### Connect the Signal Cable Correctly

The potential of the signal cable ground is equal to the earth ground. Do not connect the signal wire to a high voltage.

### Look Over All Terminals' Ratings

To avoid fire or electric shock, please look over all ratings and sign instructions of the instrument. Before connecting the instrument, please read the manual carefully to gain more information about the ratings.

### Use Proper Overvoltage Protection

Make sure that no overvoltage (such as that caused by a thunderstorm) can reach the product, or else the operator might be exposed to the danger of electrical shock.

### Electrostatic Prevention

Operate in an electrostatic-protected area environment to avoid damages induced by static discharge. Always ground both the internal and external conductors of the cable to release a static charge before connecting.

### Maintain Adequate Ventilation

Inadequate ventilation may cause an increase in temperature, which may eventually damage the instrument. Maintain suitable ventilation and inspect the fan and intake regularly.

## Avoid Exposed Circuits and Components

Do not touch exposed contacts or components when the instrument's power is on.

## Use Only the Specified Fuse

## Do Not Operate Without Covers

Do not operate the instrument with covers or panels removed.

## Safety Terms and Symbols

**Terms used in this product.** These terms may appear in the product:

- DANGER** Indicates direct injury or hazards that may happen.
- WARNING** Indicates potential injury or hazards that may happen.
- CAUTION** Indicates potential damage to the instrument or other property that may happen.

**Symbols used in this product.** These symbols may appear on the product:



Hazardous  
Voltage



Protective  
Earth Ground



Warning



Earth  
Ground



Power  
Switch

## Allgemeine Sicherheitsübersicht

Lesen Sie die folgenden Sicherheitshinweise sorgfältig durch, um Verletzungen oder Schäden am Gerät und an den daran angeschlossenen Produkten zu vermeiden. Um mögliche Gefahren zu vermeiden, verwenden Sie das Gerät bitte wie angegeben.

### Verwenden Sie ein geeignetes Netzkabel

Verwenden Sie nur das für das Gerät vorgesehene und im jeweiligen Land zugelassene Netzkabel.

### Erden Sie das Gerät

Das Gerät ist über den Schutzleiter der Netzleitung geerdet. Um einen elektrischen Schlag zu vermeiden, vergewissern Sie sich bitte, dass das Gerät korrekt geerdet ist, bevor Sie die Eingangs- oder Ausgangsklemmen des Geräts anschließen.

### Schließen Sie das Messkabel richtig an

Die Kabelschirmung (Masse) des Messkabels ist gleich dem Potential der Erde, schließen Sie das Messkabel also nicht an eine hohe Spannung an.

### Überprüfen Sie die Nennwerte aller Klemmen

Um Feuer oder einen elektrischen Schlag zu vermeiden, beachten Sie bitte alle Angaben und Hinweise auf dem Gerät. Bevor Sie das Gerät anschließen, lesen Sie bitte das Handbuch sorgfältig durch, um weitere Informationen über die Nennwerte zu erhalten.

### Verwenden Sie einen ordnungsgemäßen Überspannungsschutz

Stellen Sie sicher, dass keine Überspannung (z. B. durch ein Gewitter) an das Gerät gelangen kann, da sonst die Gefahr eines elektrischen Schlages besteht.

### Schutz vor Elektrostatik

Betreiben Sie das Gerät in einer Umgebung, die vor elektrostatischer Entladung geschützt ist, um Schäden durch statische Entladung zu vermeiden. Erden Sie vor dem Anschließen immer sowohl den Innen- als auch den Außenleiter des Kabels, um statische Aufladung abzubauen.

### **Für gute Belüftung sorgen**

Eine unzureichende Belüftung kann zu einem Temperaturanstieg führen, der schließlich das Gerät beschädigt. Sorgen Sie daher für eine gute Belüftung und überprüfen Sie regelmäßig die Ansaugung und den Lüfter.

### **Vermeiden Sie freiliegende Schaltkreise oder Komponenten**

Berühren Sie keine freiliegenden Kontakte oder Bauteile, wenn das Gerät eingeschaltet ist.

### **Richtige Sicherung verwenden**

Verwenden Sie nur die angegebene Sicherung.

### **Betreiben Sie das Gerät nicht ohne Abdeckungen**

Betreiben Sie das Gerät nicht, wenn Abdeckungen oder Verkleidungen entfernt sind.

### **Betreiben Sie das Gerät nicht bei vermuteten Defekten**

Wenn Sie vermuten, dass das Gerät beschädigt ist, lassen Sie es vor dem weiteren Betrieb von qualifiziertem Servicepersonal überprüfen. Jegliche Wartung, Einstellung oder Austausch, insbesondere von Schaltkreisen oder Zubehör, muss von SIGLENT autorisiertem Personal durchgeführt werden.

### **Nicht in feuchter Umgebung betreiben**

Um einen Kurzschluss im Geräteinneren oder einen elektrischen Schlag zu vermeiden, betreiben Sie das Gerät nicht in feuchter Umgebung.

### **Betreiben Sie das Gerät nicht in explosionsgefährdeten Umgebungen**

Um Schäden am Gerät oder Personenschäden zu vermeiden, ist es wichtig, das Gerät nicht in explosionsgefährdeter Umgebung zu betreiben.

### **Halten Sie die Produktoberflächen sauber und trocken**

Um den Einfluss von Staub und/oder Feuchtigkeit in der Luft zu vermeiden, halten Sie die Oberfläche des Geräts bitte sauber und trocken.

### **Sicherheit bei der Handhabung**

Bitte behandeln Sie das Gerät während des Transports vorsichtig, um Schäden an Tasten, Drehknopfschnittstellen und anderen Teilen auf den Bedienfeldern zu



vermeiden.

**Es dürfen nur Tastköpfe verwendet werden, die den Spezifikationen des Herstellers entsprechen**

Bei Verwendung von 2X/.../10000X-Sondenbaugruppen müssen die Sondenbaugruppen durch eine doppelte oder verstärkte Isolierung von den gemessenen Stromkreisen isoliert sein.

Alle Sondenbaugruppen sollten die Anforderungen von UL 61010-031 und CAN/CSA-C22.2 Nr. 61010-031-07 erfüllen.

Das Gerät darf nicht so positioniert werden, dass es schwierig ist, die Trennvorrichtung (abnehmbarer Stecker) zu bedienen.

Wenn das Gerät auf eine Weise verwendet wird, die nicht vom Hersteller angegeben ist, kann der Schutz, den das Gerät bietet, beeinträchtigt werden.

## Sicherheitsbegriffe und Symbole

**Begriffe in diesem Handbuch. Diese Begriffe können in diesem Handbuch vorkommen:**



### **WARNUNG**

Warnhinweise weisen auf Bedingungen oder Praktiken hin, die zu Verletzungen oder zum Verlust des Lebens führen können.



### **VORSICHT**

Vorsichtshinweise weisen auf Bedingungen oder Praktiken hin, die zu Schäden an diesem Produkt oder anderen Gegenständen führen können.

**Begriffe auf dem Produkt. Diese Begriffe können auf dem Produkt erscheinen:**

### **GEFAHR**

Weist auf direkte Verletzungen oder Gefahren hin, die auftreten können.

### **WARNUNG**

Weist auf mögliche Verletzungen oder Gefährdungen hin, die auftreten können.

### **VORSICHT**

Weist auf mögliche Schäden am Gerät oder an anderen Gegenständen hin, die eintreten können.

**Symbole auf dem Produkt. Diese Symbole können auf dem Produkt erscheinen:**



Hazardous  
Voltage



Protective  
Earth Ground



Warning



Earth  
Ground



Power  
Switch

Wenn Sie solche Symbole auf dem Produkt finden, ziehen Sie das Handbuch zu Rate, um die Art der potenziellen Gefahr und die zu ergreifenden Maßnahmen zu erfahren

## General Care and Cleaning

### Care

Do not store or leave the instrument in direct sunshine for extended periods of time. To avoid damages to the instrument or probes, please do not expose them to fog, liquid, or solvents.

### Cleaning

Please perform the following steps to clean the instrument and probes regularly in accordance with its operating conditions.

1. Disconnect the instrument from all power sources and then clean with a soft wet cloth.
2. Clean the loose dust on the outside of the instrument and probe with a soft cloth. When cleaning the LCD, take care to avoid scratching it.

To avoid damage to the surface of the instrument and probe, please do not use any corrosive liquid or chemical cleansers.

Make sure that the instrument is completely dry before restarting it to avoid potential short circuits or personal injury.

## General Inspection

### 1. Inspect the shipping container

Keep the damaged shipping container or cushioning material until the contents of the shipment have been completely checked and the instrument has passed both electrical and mechanical tests.

The consigner or carrier will be responsible for damages to the instrument resulting from shipment. **SIGLENT** would not provide free maintenance or replacement if the instrument has been damaged in shipment.

### 2. Inspect the instrument

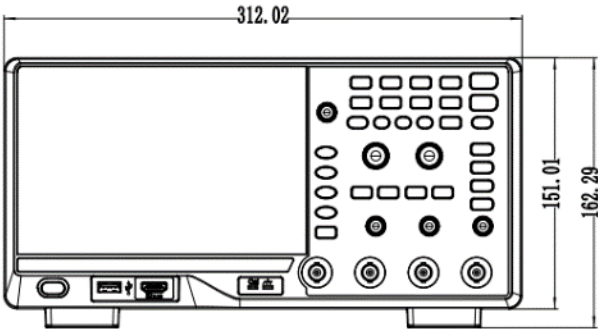
If there are instruments found damaged, defective or failure in electrical and mechanical tests, please contact **SIGLENT**.

### 3. Check the accessories

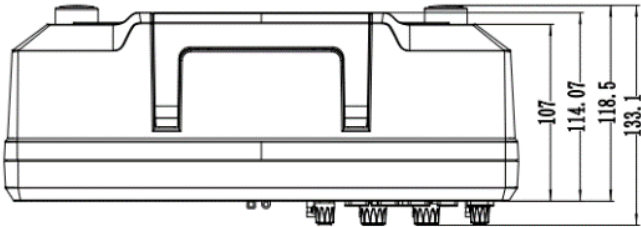
Please check the accessories according to the packing list. If the accessories are incomplete or damaged, please contact your **SIGLENT** sales representative.

# Quick Start

## Mechanical Dimension



Front View



Top View

## **Adjust the Supporting Legs**

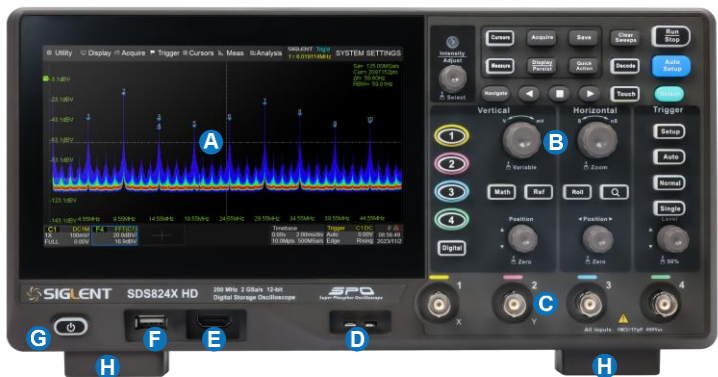
Adjust the supporting legs properly to use them as stands to tilt the oscilloscope upwards for stable placement as well as easier operation and observation of the instrument.



## **Connecting to Power Supply**

The standard power supply for the instrument is 100~240 V, 50/60 Hz. Please use the power cord provided with the instrument to connect it to AC power.

# Front of Oscilloscope



- A Touch Screen Display**  
The display and major functions area. See "User Interface" for more details

**B Front Panel**  
Includes knobs and buttons. See "Front Panel" for more details

**C Analog Input Connectors**

**D Probe Compensation / Ground Terminal**
- E SBUS Digital Input®**

**F USB 2.0 Host Ports**  
Connect to USB storage devices for data transfer or USB mouse/ keyboard for control

**G Power Switch**

**H Supporting Legs**

① WARNING: Non-standard HDMI interface, Siglent device ONLY, or you will damage your device.

## Back of Oscilloscope



**A 10M/100M LAN Port**

Connects the port to the network for remote control

**B USB 2.0 Device**

Connects with a PC for remote control

**C USB 2.0 Host**

Connects with a USB storage device or USB mouse / keyboard

**D Auxiliary Out**

Outputs the trigger indicator. When Mask Test is enabled, outputs the pass / fail signal

**E AC Power Input**

**F Keyhole**

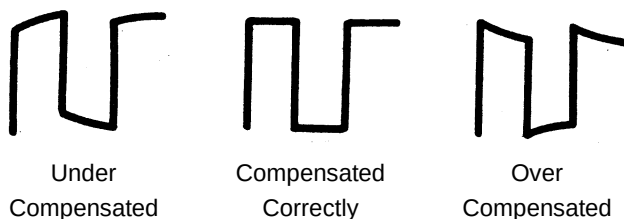
**G Handle**



## Probe Compensation

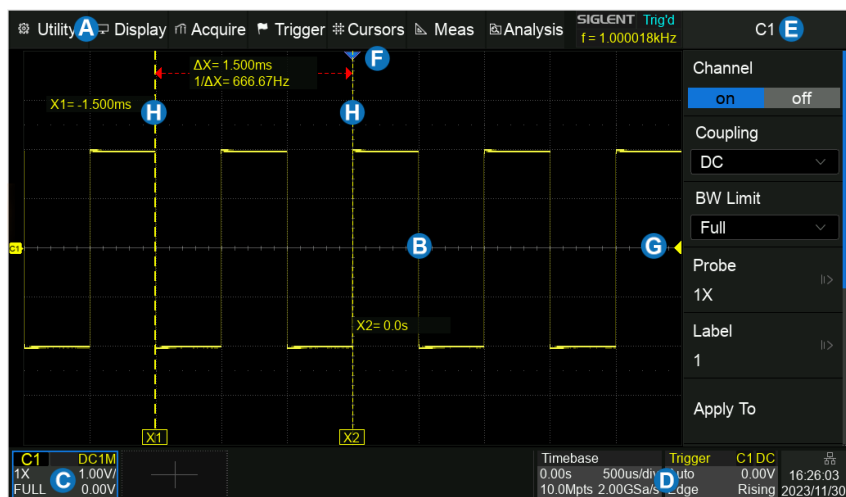
All oscilloscope probes should be properly compensated before their first use with the oscilloscope. A non-compensated or inadequately compensated probe may cause inaccurate measurement. The following steps illustrate the proper probe compensation procedure.

1. Use the probe to connect the CH1 Input Terminal and the Compensation Signal Output Terminal  on the front panel. Connect the ground alligator clip of the probe to the “Ground Terminal” under the compensation signal output terminal.
2. Check the displayed waveforms and compare them with the following figure.



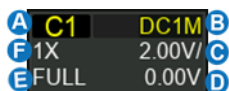
3. Use a nonmetallic flat-head screwdriver to adjust the low-frequency compensation adjustment hole on the probe until the waveform matches the “Compensated Correctly” waveform above.

## User Interface



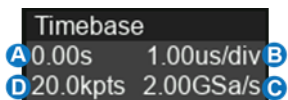
- A** Menu Bar
- B** Grid Area displays the waveform traces. Traces can be moved by dragging them and re-scaled by pinch and spread
- C** Channel Descriptor Boxes include analog channels (C1~C4 or C1~C2), digital channels (D), math (F1-F4) and reference (Ref). They show the parameters of the corresponding traces. Touching the boxes creates a dialog box
- D** Timebase and Trigger Descriptor Boxes show the parameters of timebase and trigger respectively. Touching the boxes creates a dialog box
- E** Dialog Box is the main area to select the parameters for a chosen specific function
- F** Trigger Delay Indicator locates where the trigger is on the horizontal axis
- G** Trigger Level Indicator shows the level where the waveform triggers
- H** Cursors show where measurement points have been set

## Channel Descriptor Box

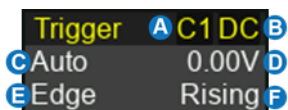


- A** Channel index
- B** Coupling and input impedance
- C** Vertical scale
- D** Vertical offset
- E** Bandwidth information
- F** Probe attenuation factor

## Timebase and Trigger Descriptor Boxes



- A** Trigger delay
- B** Horizontal scale (timebase)
- C** Sample rate
- D** Samples

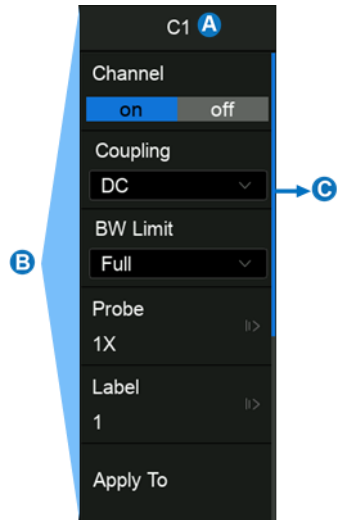


- A** Trigger source
- B** Trigger coupling
- C** Trigger mode
- D** Trigger level
- E** Trigger type
- F** Trigger slope

## Dialog Box

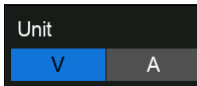
The dialog box on the right side of the screen is the main area for setting the parameters of the selected function.

- A** Title bar. Touching the bar can hide the dialog box, and touching again can open the dialog box
- B** Parameter setting area
- C** Scroll bar. When parameters are more than the displayed range, the blue scrollbar will be displayed. By sliding the dialog area up and down, or rolling the mouse wheel, it can scroll to the area not displayed

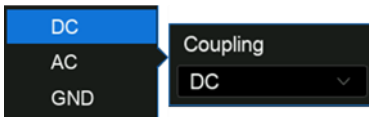


## To Set Parameters

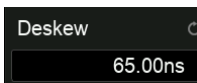
Several different ways are provided to set parameters:



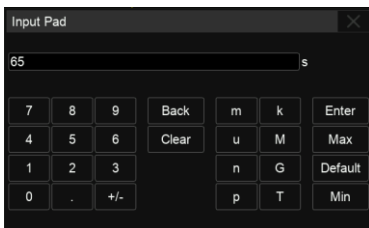
**Switch** – Sets parameters with two states, such as to enable or disable a function. Touch the switch region to change from one state to the other.



**List** – Sets parameters with more than two options, such as the coupling mode of channels. Touch the parameter region, and then select the expected option from the pop-up list.



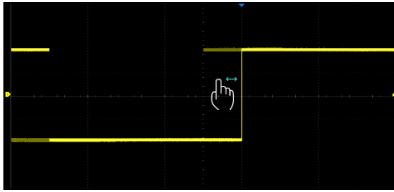
**Virtual Keypad** – Sets parameters with a numerical value. Touch the parameter region, and the parameter can be adjusted by the universal knob on the front panel; touch the region again, then the virtual keypad appears;



To use the operation of setting “Deskew” of the channel as an example: If the expected value is 65 ns, input “65” on the virtual keypad, and then choose the unit **n** to complete the operation. On the virtual keypad, touching the button **Max**, **Min**, and **Default** quickly sets the parameter to its maximum, minimum and default values.

## Touch Gestures

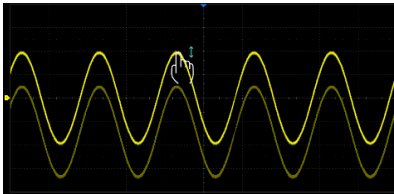
Waveforms, cursors and trigger level can be adjusted by touch gestures in the grid area.



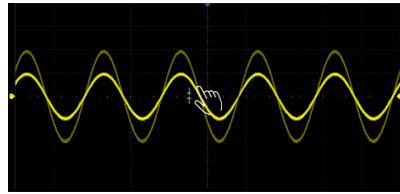
Drag the waveform left and right to move it on the horizontal axis



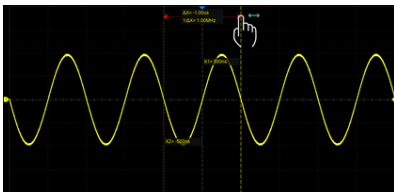
Pinch and spread the waveform horizontally to re-scale the timebase



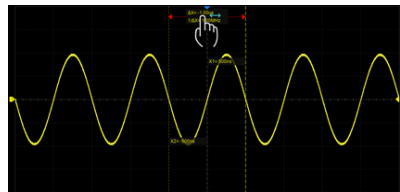
Drag the waveform up and down to move it on the vertical axis



Pinch and spread the waveform vertically to re-scale the vertical gain



Touch and drag the cursor to move it



Touch and drag the cursor information region to move the pair of cursors simultaneously

## Front Panel



The front panel is designed to operate the basic functions without having to open the software menu. Most of the front panel controls duplicate functionality available through the touch screen display but the operation is more quickly achieved.



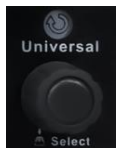
Automatically sets the waveform to adapt the display according to its frequency and amplitude.



Resets the oscilloscope to the default configuration.



Enables or disables the touch screen. When it is lighted the functionality is enabled.



Rotate the universal knob to set the value of the activated parameter, or to move the selected cursor. Push to select a different cursor.

## Choosing the Language

Utility > Menu > System setting > Language

## Basic Operations

### Turn On / Disable a Channel

#### From the Front Panel

Push the channel button (1-4 or 1-2, Digital, Math, Ref) to turn on the corresponding channel. Its channel descriptor box and dialog box will appear on the display.



If a channel is already on but not activated, push the button to activate it. If a channel is already on and activated, push the same button again to disable the channel.

#### From the Touch Screen

Touch the  button and then select the expected channel to turn it on, and its channel descriptor box and the dialog box will appear on the display. Touch the channel descriptor box and then touch the  button to disable it.

### Vertical System

- A** Analog channel on/off
- B** Digital channels on/off
- C** Math on/off
- D** Reference on/off
- E** Rotate the knob to adjust the vertical scale (volts / div). Push to switch to alternate between coarse and fine adjustments
- F** Rotate the knob to adjust the vertical position of the channel. Push to set the offset to zero





## Channel Setup

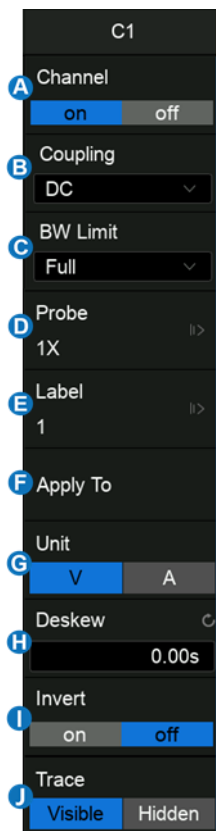
Touch the channel descriptor box, a quick dialog will pop up. Vertical scale and offset can also be set from this dialog box.



- A** Touch the region to set the vertical scale with the universal knob or virtual keypad
- B** ▲ to increase the vertical scale and ▼ to decrease
- C** Check to coarsely adjust the vertical scale and uncheck to enable fine adjustment
- D** Touch the region to set the offset with the universal knob or virtual keypad
- E** ▲ to increase the offset and ▼ to decrease
- F** Set the offset to zero
- G** Copy the setting of the current channel to another channel
- H** Quickly select the current channel as the source of a specified operation (Trigger, FFT, Simple Measure, Cursor, Search and Counter)
- I** Disable the channel
- J** Hide the trace

Activating a channel in the quick dialog of the channel recalls the channel dialog box, displaying more parameters:

- A** Turn channel on/off
- B** Coupling (DC, AC or GND)
- C** Bandwidth limit (Full or 20 MHz)
- D** Probe attenuation (1X, 10X, 100X or custom)
- E** Set the label text. Click to recall the label setting. Users can customize the text and display of the label
- F** Quickly apply a specified operation (Cursor, Simple Measure, Counter, FFT, Search and Mask Test) to the current channel
- G** Units for the channel
- H** Deskew
- I** Enable / disable invert
- J** Trace visible / hidden

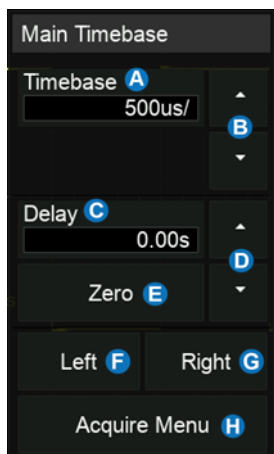


## Horizontal System



- A** Rotate to adjust the horizontal scale (time / div); When Zoom is enabled, push to switch between the main window and zoom window
- B** Push to enable horizontal Roll; push again to exit Roll mode. At timebase settings larger than 50 ms/div, it is recommended to set the oscilloscope to Roll mode so that the waveform is displayed in real-time
- C** Push to enable / disable Zoom
- D** Rotate to adjust trigger delay; push to set trigger delay to zero

Touch the timebase descriptor box to display a quick dialog box. Timebase and Trigger Delay can also be set in this dialog box.

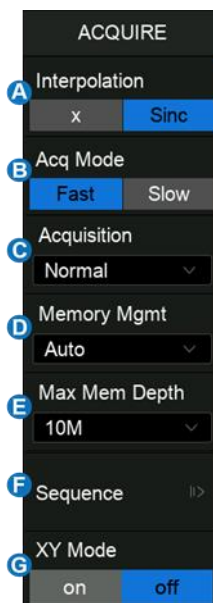


- A** Set the horizontal scale (timebase) by the virtual keypad
- B** ▲ to increase and ▼ to decrease the horizontal scale
- C** Set the trigger delay by the virtual keypad
- D** ▲ to increase and ▼ to decrease the trigger delay
- E** Set the trigger delay to zero
- F** Set the trigger point to the left part of the screen
- G** Set the trigger point to the right part of the screen
- H** Open the Acquire dialog box

## Acquisition System

Touch the **Acquire** button on the front panel, or touch the menu bar **Acquire** > **Menu** to recall the Acquire dialog box on the right side.

- A** Select the interpolation mode
- B** Select the Acq mode
- C** Select the acquisition mode (Normal / Peak Detect)
- D** Select the memory management mode (Auto / Fixed Smpl Rate)
- E** Select the maximum memory depth
- F** Enter the sequence menu
- G** XY mode on / off



## Zoom

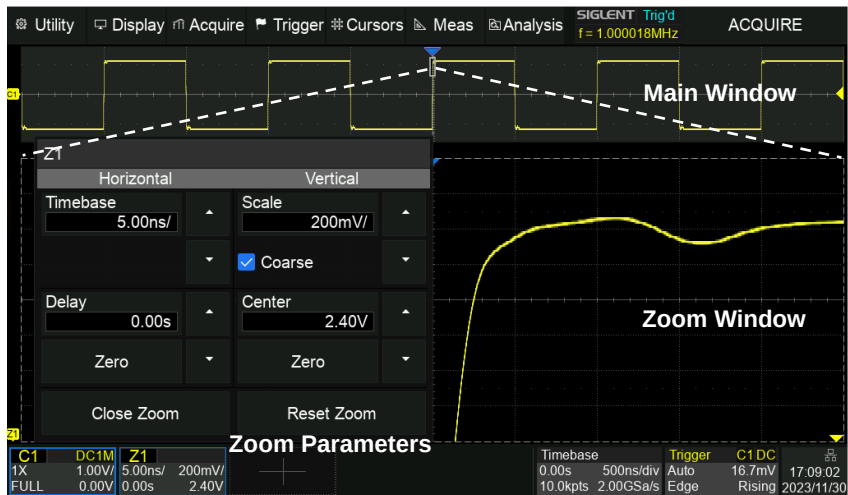


Waveform zoom in the horizontal and vertical directions is supported. Push the  button on the front panel to enable Zoom mode



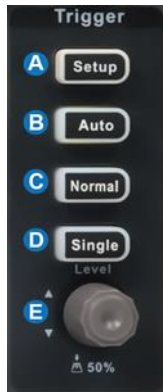
When the Zoom mode is enabled, press down the horizontal knob to switch between the main window and zoom window. Currently activated window is high-lighted by dash line.

In Zoom mode the grid area is divided into two areas. The main window appears on the top and the zoom window on the bottom. The region without the gray background in the main window is the portion of trace that is magnified in the zoom window. Please refer to the User Manual for detailed operation instructions of Zoom mode.



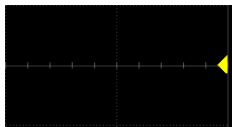
## Trigger

The trigger system supports multiple powerful triggering modes including serial bus triggering. Refer to the User Manual for more details.



- A** Opens trigger setup dialog box
- B** Auto mode – triggers after preset period if no valid trigger occurs
- C** Normal mode – triggers repeatedly when all conditions are met
- D** Single mode – triggers once when all conditions are met
- E** Trigger level adjustment – push to set the level to 50% of the waveform

### Indicators Relative to Trigger



Trigger level Indicator



Horizontal 0 position Indicator

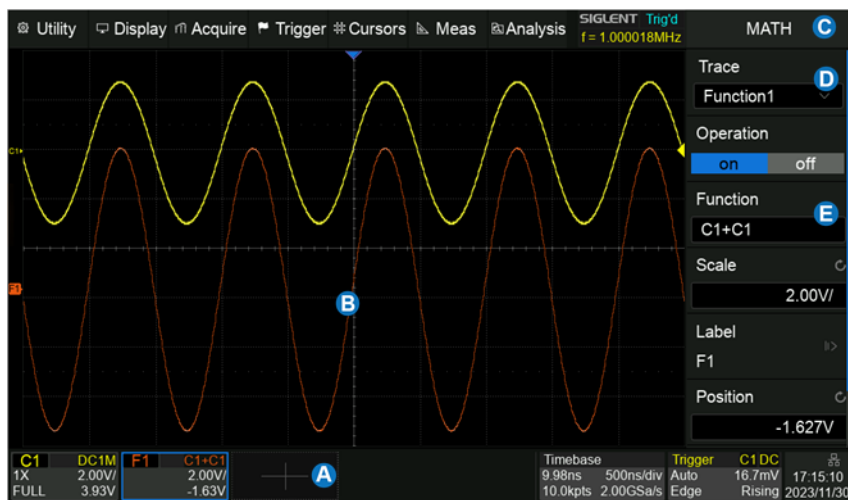


Horizontal 0 position (out of screen) Indicator

- A** Select trigger type
- B** Select the trigger source
- C** Select the trigger slope (When the trigger type is "Edge", "Slope" and other specific types)
- D** Set holdoff (None / Time)
- E** Set trigger coupling mode (DC / AC / LF Reject / HF Reject)
- F** Enable / disable noise rejection. When noise reject is on, the trigger hysteresis is increased, so the noise immunity of the trigger circuit is better. As a compromise, the trigger sensitivity degrades

| TRIGGER  |                                                                               |
|----------|-------------------------------------------------------------------------------|
| <b>A</b> | Type<br>Edge                                                                  |
| <b>B</b> | Source<br>C1                                                                  |
| <b>C</b> | Slope<br>Rising                                                               |
| <b>D</b> | Holdoff<br>None                                                               |
| <b>E</b> | Coupling<br>DC                                                                |
| <b>F</b> | Noise Reject<br><input type="radio"/> on <input checked="" type="radio"/> off |

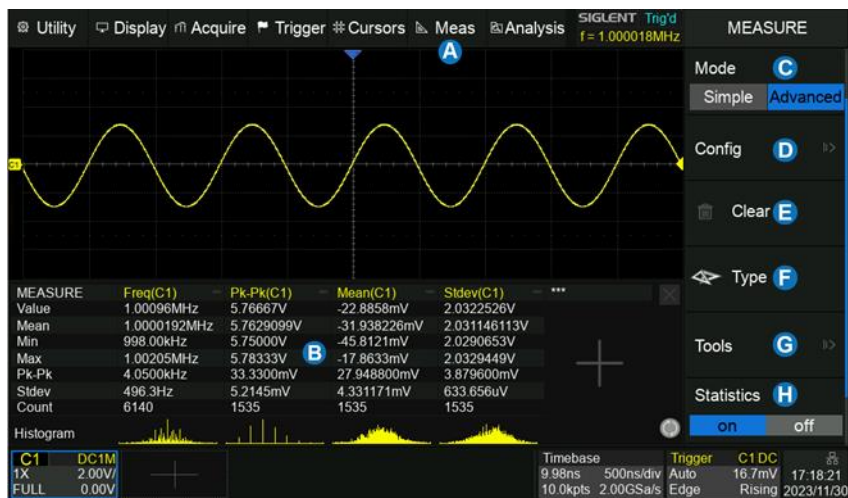
## Math



- A** Touch **+** > **Math** > **F1/F2/F3/F4** , or push the **Math** button on the front panel to create a math trace and open math setup dialog box **C**
- B** Math trace
- C** Math setup dialog box
- D** Selects the trace (F1 ~ F4)
- E** Selects the operator and source (C1~C4, Z1~Z4, F1~F4)



## Measure & Statistics



- A Touch **Meas** > **Menu** , or push the **Measure** button on the front panel to open measure setup dialog box
- B Measurement parameters and statistics display area. If select the mode as "Simple", the "Simple" parameter area is displayed. Touch the **Clear Sweeps** button on the front panel to reset the statistics
- C Set the mode of measure: Simple or Advanced. "Simple" shows the specified basic measurement parameters of the selected channel. In "Advanced" mode, the measurement parameters can be added one by one as needed
- D Measure configuration: gate, amplitude strategy, and threshold
- E Clear all the selected measurements
- F Select measurement parameters
- G Tools including Track, Measure Cursor, and Trend
- H Turn on or off statistics

## Cursors

Cursors set measurement points on the Vertical or Horizontal axis of a trace (or both). For more information, please refer to the User Manual.

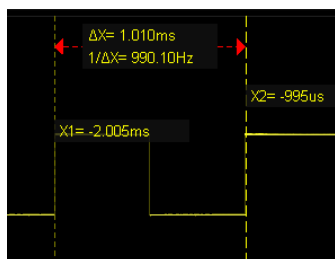
### Cursors

Push the button to open the cursors setup dialog box

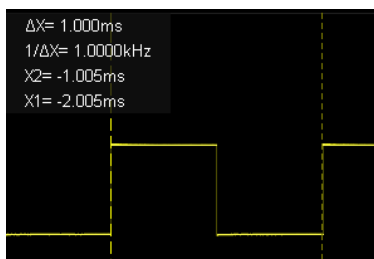


Rotate the knob to move the selected cursor; push to select different cursor

The display mode of cursors



Following



Fixed

## Reference Waveforms

Reference waveforms (REFA, REFB, REFC, and REFD) are analog or math traces stored in the non-volatile memory. They can be recalled to the display for comparison with other traces. Press the **Ref** button on the front panel to set the reference waveforms.

- A** Select the location of the reference (REFA / REFB / REFC / REFD)
- B** Select the source (C1~C4 and Math)
- C** Enable/disable display of the reference waveform
- D** Set the label text of the reference trace
- E** Save the waveform specified in **B** to the specified location in **A**

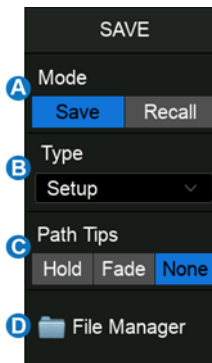


The reference waveforms (.ref) can be saved to an external storage device. See “Save / Recall” for details.

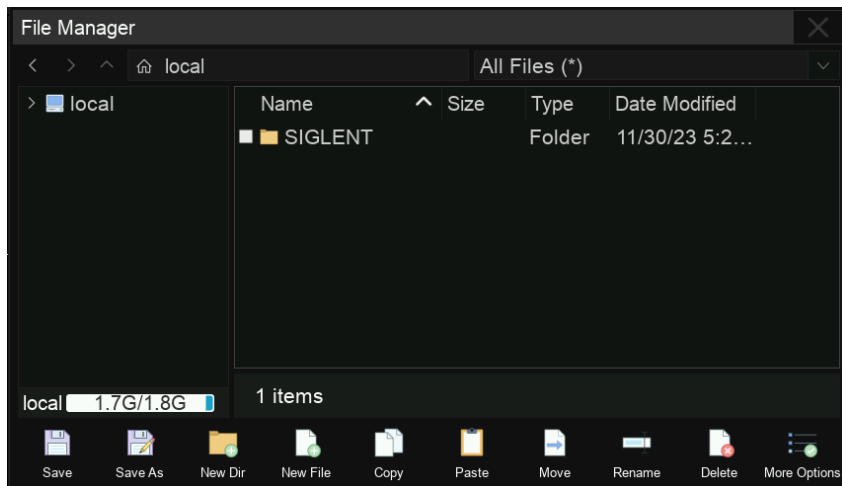
## Save/Recall

Touch **Utility** > **Save/Recall** to save / recall a setup, picture, waveform data or reference waveform.

- A** Choose save or recall operation
- B** Select the object type
- C** Select the path tips mode
- D** Recall the file manager for further operations



## File Manager



## Quickly Save

Push the **Save** button on the front panel to perform specified save action. The default is to save a screenshot as a picture (.bmp/.png/.jpg). Touch **Utility** > **Save Button** to set the file type and path.

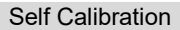
## Quick Action

Push the  button on the front panel to perform a specified action. Touch  >  to open the Quick Action menu and set the action mapping to the button. By default, Quick Action is disabled, and pushing the button for the first time will open the Quick Action menu.

## Calibration

### Self Calibration

The oscilloscope is calibrated at the factory prior to being shipped. The calibration is run at 23°C ( $\pm 2^\circ\text{C}$ ) and is valid for temperatures  $23 \pm 5^\circ\text{C}$ . Within this temperature range, the oscilloscope will meet all specifications once warmed up.

Touch  >  >  > 

Warm up the oscilloscope for at least 20 minutes prior to each use or calibration in order for it to reach a stable operating temperature. Specifications are not guaranteed during the warm-up period.

Whenever the oscilloscope is used in an environment outside  $23 \pm 5^\circ\text{C}$ , or when it has been more than one month since the previous calibration, a self-calibration is recommended.

### Quick Cal

When Quick Cal is enabled, the oscilloscope will initiate an ADC calibration procedure when the ADC temperature changes by over  $3^\circ\text{C}$  to avoid performance drift. This procedure is quick enough not to affect the user experience but will interrupt the acquisition procedure. It is recommended to disable it when capturing long-duration waveforms or monitoring rare events without interruption. The default status of Quick Cal is disabled.

Changing vertical scale or channel interleaving mode will initiate the same ADC calibration procedure in the background. This is always enabled, regardless of the status of Quick Cal.

Touch  >  >  >  to set Quick Cal.

## **Software Option**

### **Installing a Software Option**

Follow the steps below to install a software option (see the data sheet for details) after purchasing it and obtaining the Option Key:

1. **Utility** > **Menu** > **Software Options**
2. Select the correct option type
3. Input the option key in the text box
4. Touch **Install** and then restart the oscilloscope



## About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, RF/MW signal generators, spectrum analyzers, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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