SDG6000X Series pulse/Arbitrary Waveform Generator

Quick Start

EN01E

Copyright Information

Declaration

SIGLENT products are protected by patent law in and outside of P.R.C.

SIGLENT reserves the right to modify or change parts of or all the specifications or pricing policies at the company's sole decision.

Information in this publication replaces all previously corresponding material.

Contents

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.

To Avoid Fire or Personal Injure

Use the 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 Terminal 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.
Equipment Maintenance and Service.
In the event of an equipment failure, please do not dismantle the machine for maintenance. The equipment contains capacitors, power supply, transformers and other energy storage devices which may cause high voltage damage. The internal devices of the equipment are sensitive to static electricity and direct contact can easily cause irreparable damage to the equipment. It is necessary to return to the factory or to the company's designated maintenance organization for maintenance. Be sure to pull out the power cord before repairing the equipment. Live line operation is strictly prohibited. The equipment can only be powered on when the maintenance is completed and the maintenance is confirmed to be successful.

Identification of Normal State of Equipment

After the equipment is started, there will be no alarm information and error information at the interface under normal conditions. The curve of the interface will scan from left to right freely; if there is a button in the scanning process or there is alarm or error prompt, the device may be in an abnormal state. You need to view the specific prompt information. You can try to restart the setting. If the fault information is still in place, do not use it for testing. Contact the manufacturer or the maintenance department designated by

the manufacturer to carry out maintenance to avoid the wrong test data caused by the use of the fault or endanger the personal safety.

Do Not Operate with Suspected Failures

If you suspect that there is damage to the instrument, please let only qualified service personnel check it.

Avoid Exposed Circuits, Wire, or Components

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

Do not operate in wet/damp conditions

Do not operate in an explosive atmosphere.

Keep the surface of the instrument clean and dry

Only lithium batteries with the same specification could be used to replace the battery on the main board.

The responsible body or operator should refer to the instruction manual to preserve the protection afforded by the equipment. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Any parts of the device and its accessories are not allowed to be changed or replaced, other than authorized by the manufacturer or agent.

Safety Terms and Symbols

Terms in this manual. Terms may appear in this manual:

⚠ WARNING Warning statements indicate the conditions and behaviors that could result in injury or loss of life.

⚠ CAUTION Caution statements indicate the conditions and behaviors that could result in damage to this product or other properties.

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

Warning

Protective Earth Ground

Terminal 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 warden.

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

Warning

Protective Earth Ground

Terminal 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.

To avoid damage 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.

1. Disconnect the instrument from all power sources and then clean it with a soft damp cloth.
2. Clean the loose dust on the outside of the instrument and probe with a soft cloth.

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

- **Inspect the shipping container**

Keep the original shipping container and 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 will not provide free maintenance or replacement if the instrument has been damaged in shipment.

- **Inspect the instrument**

If there are instruments found damaged, defective, or have failed any electrical and / or mechanical tests, please contact SIGLENT.

- **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.

First steps

Delivery Checklist

First, verify that all items listed on the packing list have been delivered. If you note any omissions or damage, please contact your nearest **SIGLENT** customer service center or distributor as soon as possible. If you fail to contact us immediately in case of omission or damage, we will not be responsible for replacement.

Quality Assurance

The instrument has a 3-year warranty (1-year warranty for probe attachments) from the date of shipment, during normal use and operation. **SIGLENT** can repair or replace any product that is returned to the authorized service center during the warranty period. We must first examine the product to make sure that the defect is caused by the process or material, not by abuse, negligence, accident, abnormal conditions or operation.

SIGLENT shall not be responsible for any defect, damage, or failure caused by any of the following:

a) Attempted repairs or installations by personnel other than **SIGLENT**.

b) Connection to incompatible devices/incorrect connection.

c) For any damage or malfunction caused by the use of non-**SIGLENT** supplies. Furthermore, **SIGLENT** shall not be obligated to service a product that has been modified. Spare, replacement parts, and repairs have a 90-day warranty.

The instrument's firmware has been thoroughly tested and is presumed to be functional. Nevertheless, it is supplied without warranty of any kind covering detailed performance. Products not made by **SIGLENT** are covered solely by the warranty of the original equipment manufacturer.

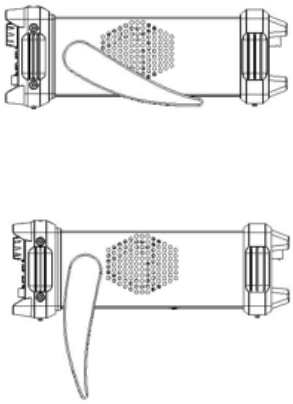
Maintenance Agreement

We provide various services on the basis of maintenance agreements. We offer extended warranties as well as installation, training, enhancement and on-site maintenance and other services through specialized supplementary support agreements. For details, please consult your local **SIGLENT** customer service center or distributor.

Preparation before Use

Adjust the Supporting Legs

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



Horizontal Position

Carrying Position

Adjust the Handle

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.

Panel Introduction

The Front Panel

1. Power Key

This key is used to turn on/off the AWG. When the power key is off, the AWG is in the power off state.

2. USB Host

SDG6000X supports USB memory devices (U-Disks) using the FAT format. An external USB memory device can be used to store and recall waveforms or state files for use with the instrument. Users can also update the firmware using U-Disks.

3. Touch Screen Display

SDG6000X has a 4.3 inch TFT-LCD touch screen, which displays current function menu, parameter settings, system state, prompts, etc. For detailed information, please refer to “Touch Screen Display”.

4. Numeric Keyboard

Consists of numbers from 0 to 9, radix points “.” and symbol keys “+/-”, which are used to input parameters.

Note: To enter a negative number, you need to enter a symbol “-” at first.

5. Knob

It is used to increase (clockwise) or decrease (counterclockwise) the current numerical value when setting parameters.

It is also used to switch characters in the soft keyboard when inputting a file name.

When saving or reading files, rotate the knob to choose a position to save a file or choose a file to be read; press the knob to open a selected folder or file.

When choosing Waveforms → Page 1/2 → Arb → Arb Type → Built-in rotate the knob to select a desired built-in or stored waveform.

Long press the knob to take a screenshot and save it to a local directory or USB drive.

6. Arrow Keys

When using the knob to set parameters, the arrow keys can be used to select the digit to be modified.

When using the numeric keyboard to set parameters, the left arrow key is used as a Backspace function.

When inputting a file name, they are used to move the position of the cursor.

7. Channel Control Area

CH1 Control/Output Key

The Output key on the left is used to turn on/off the CH1 output.

The nominal output impedance of the BNC connector is 50Ω.

When pressing Output (the key backlight turns on), the connector outputs the waveform according to the current configuration of CH1.

CH2 Control/Output Key

The Output key on the right is used to turn on/off the CH2 output.

The nominal output impedance of the BNC connector is 50Ω.

When pressing Output (the key backlight turns on), the connector outputs the waveform according to the current configuration of CH2.

A long press of the output key (>2 s) switches the output load setting between 50Ω and HiZ.

⚠ CAUTION

Overvolltage protection of CH1 and CH2 will take effect once any of the following conditions is met.

When overvoltage protection occurs, a message will be displayed and the output is disabled.

- The absolute value of input voltage is higher than 11V±0.5V when the amplitude of the generator is higher than or equal to 3.2Vpp or the DC offset is higher than or equal to |2VDC|.
- The absolute value of input voltage is higher than 4V±0.5V when the amplitude of the generator is lower than 3.2Vpp and the DC offset is lower than |2VDC|.

If an overvoltage protection occurs, a message will be displayed and the output will be disabled.

Choose Utility → Page 1/3 → OverVoltage Protection to turn on/off the function.

8. Channel Select Key

This key is used to switch the current selected channel between CH1 and CH2.

9. Function Keys

Mod -- Modulation

This key is used to enable the modulation screen and allow for several types of modulation. It generates AM, DSB-AM, FM, PM, ASK, FSK and PWM modulated signals.

- It supports “Internal”, “External” and “CH1/2” modulation sources.
- The corresponding key backlight will turn on when this function is selected.

Sweep -- Sweep

This key is used to generate sweeping frequency signals of Sine, Square, Ramp and Arbitrary.

- It supports “Linear” and “Log” sweep profiles.
- It supports “Internal”, “External” and “Manual” trigger sources.
- The corresponding key backlight will turn on when this function is selected.

Burst -- Burst

This key is used to generate burst signals of Sine, Square, Ramp, Noise and Arbitrary.

- It supports “NCycle”, “Gated” and “Infinite” burst modes.
- Noise can only be used to generate gated burst.
- It supports “Internal”, “External” and “Manual” trigger sources.
- The corresponding key backlight will turn on when this function is selected.

Parameter -- Parameter Setting

Users can switch directly to the parameter setting interface by pressing the key.

- The corresponding key backlight will turn on when this function is selected.

Utility -- Utility Functions and System Settings

This key is used to set system parameters and check version information.

- Press this key and then press the help softkey to obtain built-in help information about the product.
- The corresponding key backlight will turn on when this function is selected.

Store/Recall -- Store and Recall

Through this key, users can store/recall the instrument’s state or arbitrary waveform data edited by users.

- Perform general file operations, such as Save, Save As, Delete, and others.

- In addition to the built-in nonvolatile memory (C disk), an external USB memory device can also be used.
- The corresponding key backlight will turn on when this function is selected.

10. Waveform Option

Waveforms -- Sine

Provide sine waveform output with a frequency ranging from 1 μHz to 500 MHz.

Enabling the "harmonic" function permits adding sinewave harmonics up to the 16th order to the basic frequency.

- The backlight of Waveforms will turn on when this function is selected.
- “Frequency/Period”, “Amplitude/High level”, “Offset/Low level” and “Phase” of the sine waveform can be adjusted.

Waveforms -- Square

Provide square waveform output with a frequency ranging from 1 μHz to 120 MHz.

The backlight of Waveforms will turn on when this function is selected.

- “Frequency/Period”, “Amplitude/High level”, “Offset/Low level”, “Phase” and “Duty” of the square waveform can be adjusted.

Waveforms -- Ramp

Provide ramp waveform output which ranges from 1 μHz to 5 MHz.

- The backlight of Waveforms will turn on when this function is selected.
- “Frequency/Period”, “Amplitude/High level”, “Offset/Low level”, “Phase” and “Symmetry” of the ramp waveform can be adjusted.

Waveforms -- Pulse

Provide pulse waveform output with frequencies that range from 1 μHz to 150 MHz.

- The backlight of Waveforms will turn on when this function is selected.
- “Frequency/Period”, “Amplitude/High level”, “Offset/Low level”, “Pulse width/Duty”, “Rise/Fall” and “Delay” of the pulse waveform can be adjusted.

Waveforms -- Noise

Provide White Gauss Noise output with a bandwidth of 500 MHz.

- Enabling the "BandSet" function permits setting the bandwidth between 1mHz ~ 500 MHz.
- The backlight of Waveforms will turn on when this function is selected.

- “Stdev” and “Mean” of the noise signal can be adjusted.

Waveforms -- Arb

Provide arbitrary waveform output with frequencies that range from 1 μHz to 50 MHz.

- The backlight of Waveforms will turn on when this function is selected.
- Support two output modes: “DDS” and “TrueArb”. In "TrueArb" mode the interpolation can be set as "Zero-order hold" or "Linear".
- Built-in waveforms include Cardiac, Gauspuls, ExpRise and ExpFall, etc. In addition, the output waveform stored on the U-Disk can be sourced.
- Users can edit arbitrary waveforms through EasyWaveX and download them to the instrument.
- “Frequency/Period”, “Amplitude/High level”, “Offset/Low level” and “Phase” of the arbitrary waveform can be adjusted.

Waveforms -- IQ

Provide IQ waveform output with center frequencies ranging from 0 Hz to 500 MHz.

- Support modulation types including 2ASK, 4ASK, 8ASK, BPSK, QPSK, 8PSK, DBPSK, DQPSK, D8PSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 2FSK, 4FSK, 8FSK, 16FSK, MSK, Multi-tone.
- Support data patterns including PN7, PN9, PN15, PN23, User file and Custom.
- Built-in waveforms can be recalled by pressing I/Q Data .
- Users can edit IQ waveforms through EasyIQ and download them to the instrument.
- “Fsymb/Fs”, “Amplitude” and “Center Frequency” of the IQ waveform can be adjusted.

Waveforms -- PRBS

Provide PRBS output which ranges from 1μbps to 300Mbps.

- Support patterns from PRBS3 to PRBS32
- Supports setting the logic level quickly to TTL/CMOS, LVTTL/LVCMOS, ECL, LVPECL, LVDS.
- Supports setting the two channels to differential mode quickly.
- “Bit Rate/Period”, “Amplitude/High level”, “Offset/Low level” and “Length” of the PRBS waveform can be adjusted.

11. Menu Keys

These keys correspond to the menu displayed above them on the display. Press any key to activate the corresponding menu.

The Rear Panel

1. Counter

BNC connector. The input impedance is 1MΩ. This connector is the input connection to the frequency counter.

2. Aux In/Out

BNC connector. The function of this connector is determined by the current operating mode of the instrument

- Sweep/Burst trigger signal input port of external trigger.
- Sweep/Burst trigger signal output port of internal/manual trigger.
- Burst gating trigger input port.
- ASK/FSK external modulation signal input port.
- Synchronization output port. When synchronization is on, the port can output a CMOS signal with the same frequency as basic waveforms (except Noise and DC), arbitrary waveforms, and modulated waveforms (except external modulation).
- AM, DSB-AM, FM, PM and PWM external modulation signal input port.

3. 10 MHz Clock Input Port

BNC connector. If the instrument uses external clock source, the connector accepts an external 10MHz clock source.

4. 10 MHz Output Port

BNC connector. If the instrument uses internal clock source, the connector outputs the 10 MHz clock signal generated by the crystal oscillator inside the generator. If an external clock is being used as a clock input,

the instrument will pass-through the external clock.

5. Earth Terminal

Used to ground the instrument.

6. AC Power Supply Input

SDG6000X can accept two different types of AC input power.

AC power: 100-240V, 50/60Hz or 100-120V, 400Hz

Fuse: 1.25A, 250V

7. USB Device

Used when connecting the instrument to an external computer to allow waveform editing (such as EasyWaveX and EasyIQ) and remote control.

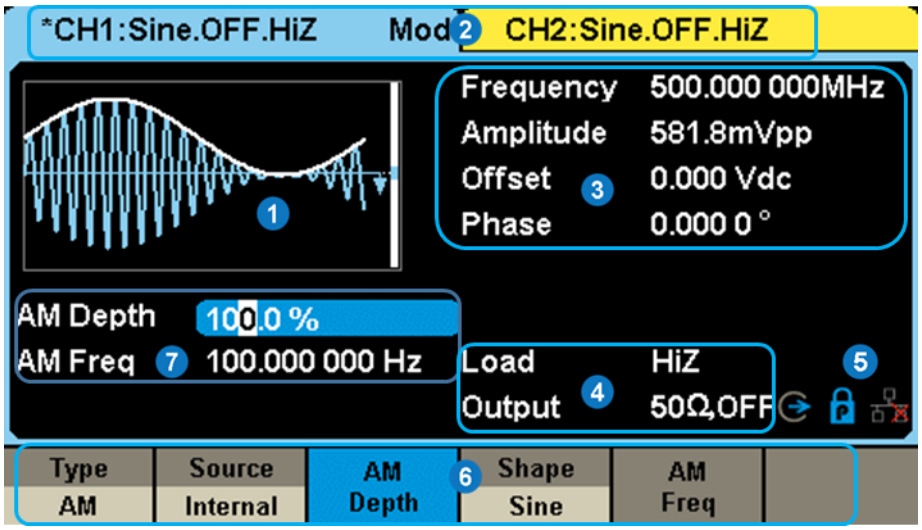
8. LAN Interface

Through this interface, the generator can be connected to your computer or network for remote control. An integrated testing system may be built, as the generator conforms to the VXI-11 class standard of LAN-based instrument control, and supports remote control commands using open sockets or Telnet.

Touch Scteen Display

SDG6000X can only display the parameters and waveform type of one channel at a time. The picture below shows the interface when CH1 has been configured to source an AM modulation of a sine waveform. The information displayed may vary depending on the function selected.

The entire screen of the SDG6000X is a touch screen. You can use your figure or touch pen to control the instrument. Most functions and selections can be chosen using the touch screen in a similar manner to the front panel keys and knob.



1. Waveform Display Area

Shows the currently selected waveform of each channel. The key backlight will turn on when this area of the touch screen is pressed.

2. Channel Status Bar

Indicates the selected status and output configuration of the channels. Touch this area of the screen to switch to the corresponding channel. If you touch again, the shortcut menus of function keys will be recalled: Mod, Sweep, Burst, Parameter, Utility and Store/Recall.

3. Basic Waveform Parameters Area

Shows the current waveform parameters of each channel. Touch this area of the screen to highlight the parameter you want to configure and use number keys or knob to change the parameter value.

4. Channel Parameters Area

Displays the currently selected channel's load and output settings.

Load -- Value of the output load, as selected by the user.

After choosing the parameter to highlight it, use the softkeys, number keys or knob to change the parameter value.

High Impedance: displays HiZ.

Load: displays the set impedance value (the default is 50Ω and the range is 50Ω to 100kΩ).

Note: This setting does not actually change the instrument's output load impedance of 50Ω but rather is used to maintain amplitude accuracy into different load values.

Output -- Channel output state.

After touching this area of the screen or pressing corresponding channel output control port, you can turn on/off the current channel.

5. Status Icon

LAN Status Icon

The SDG6000X will show different prompt messages based on the current network status.

 Indicates LAN connection is successful.

 Indicates there is no LAN connection or LAN connection is unsuccessful.

Phase Mode Icon

 Indicates "Phase Locked" mode, in which both DDS reset when changing frequency. Phase deviation between CH1 and CH2 is maintained.

 Indicates "Independent" mode, in which no DDS resets when changing frequency. Phase deviation between CH1 and CH2 is random.

The independent mode is recommended when the smoothest manual frequency transitions are required.

Choose Utility → Page 2/3 → Phase Mode to choose the mode.

Clock Source Icon

 Indicates the clock source is internal.

 Indicates the clock source is external.

 Indicates the clock source is external, but not available.

6. Menu

Touch here for the menu corresponding to the displayed function. For example, the picture above shows the parameters of "AM modulation". After touching the menu on the touch screen to choose the corresponding parameter, use number keys or knob to change the parameter value.

7. Modulation Parameters Area

Shows the parameters of the current modulation function. After touching this area of the screen or pressing corresponding menu, use number keys or knob to change the parameter value.

Use Built-In Help System

To obtain built-in help information of the product, please press Utility → Systerm → Page1/2 → help , use the knob to choose the help item you want, finally press Select to obtain help information.

Introduction of EasyWaveX

The SDG6000X series includes arbitrary waveform editing software called EasyWaveX. This software is a platform for easily creating, editing, and transferring waveforms to the generator. It provides 12 standard waveforms such as Sine, Square, Ramp, Pulse, Noise, DC and Multi Pulse, which meets most engineers' basic needs. In addition, it provides several ways of manual drawing, point-to-point line drawing and arbitrary point drawing. EasyWaveX allows for fast and easy creation of complex waveforms.

The main interface of EasyWaveX is shown in the following figure.

Introduction of EasyIQ

The IQ waveform editing software EasyIQ supports generating IQ data with 2ASK, 4ASK, 8ASK, BPSK, QPSK, 8PSK, DBPSK, DQPSK, D8PSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 2FSK, 4FSK, 8FSK, 16FSK, MSK, Multi-tone modulation, and custom data to the instrument.

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