JOY-iT

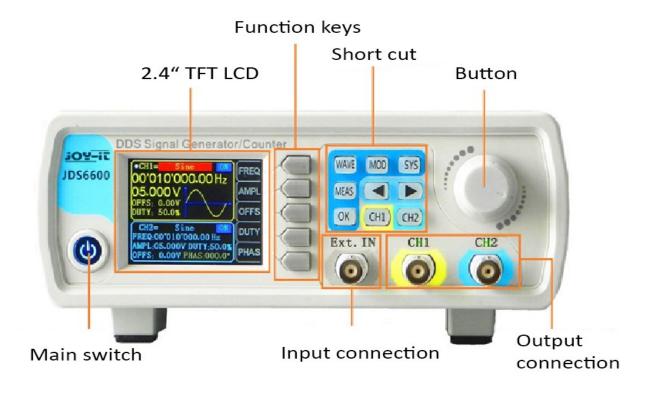# JDS6600
Dual-Channel Signal Generator

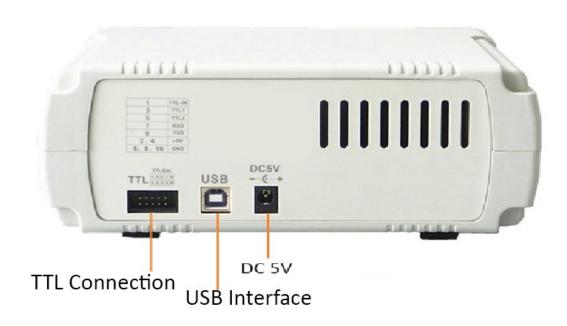# TABLE OF CONTENTS

1.   INTRODUCTION

Dear customer,
Thank you very much for choosing our product. In the following we have listed what you have to consider during commissioning.

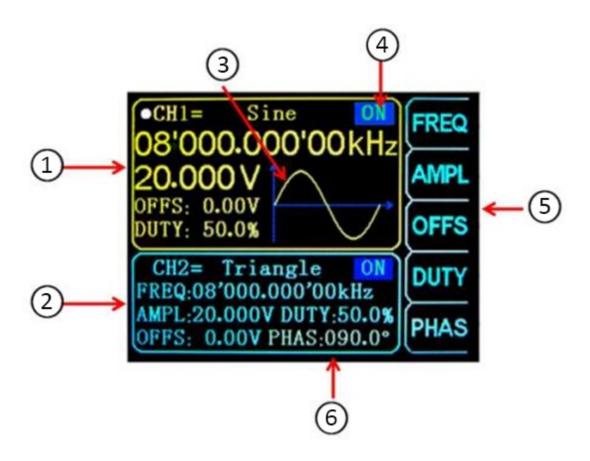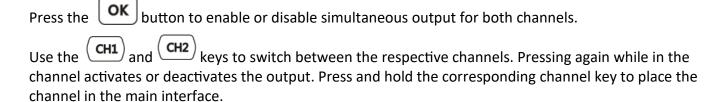# 2.   DEVICE OVERVIEW

TTL Connection

USB Interface

DC 5V

1	CH1 Parameter
2	CH2 Parameter
3	waveform display
4	Channel output status
5	menu bar
6	Phase difference between CH1 and CH2

3.   SHORTCUT OVERVIEW

WAVE	Configuration of the waveform
MEAS	Configuration of the measuring mode
MOD	Activating the modulation mode
SYS	system settings
OK	Control the output of CH1 and CH2. Used in other menus for control and confirmation (On/Off).
◀ ▶	Moving the cursor position
CH1	Press and hold to select channel 1 as the main display.
CH2	Press and hold to select channel 2 as the main display.

4. PARAMETER SETTINGS IN THE MAIN INTERFACE

Press the **OK** button to enable or disable simultaneous output for both channels.

Use the **CH1** and **CH2** keys to switch between the respective channels. Pressing again while in the channel activates or deactivates the output. Press and hold the corresponding channel key to place the channel in the main interface.

Press the **WAVE** button to activate the waveform. While the waveform is active, the shape can be changed quickly using the main button. The arrow keys can be used to switch between the waveforms and the presets.

Use the **FREQ** button to highlight the frequency parameter. Then use the direction keys to move the cursor to the value you want to edit. Then press the Main button to edit the respective value. Then press and hold the Frequency button to change the unit (MHz, KHz, Hz, MHz).

5. MEASURING AND COUNTING FUNCTIONS

Press [MEAS] and then the [FUNC] button in the measuring mode to switch between the measuring function and the counting function.

The input signal frequency, period, positive pulse width, duty cycle and other parameters can be measured. The measuring frequency range is between 1 Hz and 100 MHz. The measuring signal amplitude range is between 2 MVpp and 20 Vpp. The input interface is Ext.IN.

Coupling setting: Press the [COUP] button to switch between AC and DC mode.

Gate Time Setting: Press the button [GATE] to set the gate time (0.01 - 10S). Move the cursor with the arrow keys to select the value to be edited. Use the Skin button to adjust the value.

Measuring mode: Press the [MODE] button to switch between the counting frequency and the counting period.

Measurement parameters: Frequency, period, positive pulse width, negative pulse width, duty cycle.

After you have set all parameters, you can use the key to [▶] start the counting function. Use the [❚❚] key to stop the function.

6.   MODULATION MODE

Press the button [MOD] to start the modulation mode. Press the [FUNC] button to switch between the sweep function (channel CH1/CH2), the pulse function (channel CH1) and the burst function (channel CH1).

Sweep function: Here you can set any start and end frequency of the signal generator. The possible time is between 0.1 and 999.9s.

In sweep mode (channel CH1), press the [▲] [▼] buttons to set the start and end frequency, time, direction and mode. Once the setting has been selected, you can use the direction buttons and the main knob to adjust it.

Pulse function: With this option you can set the pulse wave width and the pulse time.

Within the pulse function (channel CH1), press the keys to select the pulse width, period, offset and amplitude. Once a parameter is highlighted, you can adjust it with the direction [▲] [▼] keys. The pulse width and period can be set using the key. You can switch between ns and us.

Burst function: The pulse sequence can be set to output 1-108575 periods. Burst mode is divided into internal CH2 channel bursts, external input bursts and manual bursts. The period time of the burst is less than the period time of the burst signal.

Within the burst function (channel CH1), press the buttons to select the pulse number and burst mode. Use the direction keys to set the respective parameters. [▲] [▼]

After you have made all the settings, you can use the button [ON] to start the corresponding function. Press [OFF] to exit.

7.   SYSTEM SETTINGS

Press the SYS button to open the setup menu. Use the buttons ▲ ▼ to navigate. The following settings can be made:
In/Out position, sound settings, brightness configuration, language settings, synchronization, setting the arbitrary wave display.

After you have opened a corresponding setting, you can configure it with the main button. Now press the corresponding button to save the settings.

Sound settings: The tones can be activated or deactivated with the ON and OFF buttons.

Brightness configuration: Here you can adjust the brightness in 12 different levels.

Language settings: The English and Chinese languages are available here.

Synchronization: Channel CH1 is used as target during synchronization. The parameters of the CH2 channel change according to the CH1 parameters. When the synchronization point is highlighted, press the ◀ ▶ keys to select the point to be synchronized.

Then use the button ON to select or the OFF button to cancel the operation.

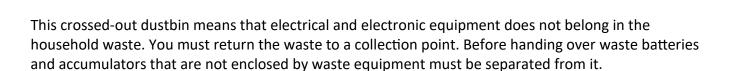**Setting the arbitrary wave display:** The number of waveforms in the main interface can be quickly adjusted by turning the knob (1-60).

8.   OTHER INFORMATION

Our information and take-back obligations according to the Electrical and Electronic Equipment Act (ElektroG)

Symbol on electrical and electronic equipment:

This crossed-out dustbin means that electrical and electronic equipment does not belong in the household waste. You must return the waste to a collection point. Before handing over waste batteries and accumulators that are not enclosed by waste equipment must be separated from it.

Return options:
As an end user, you can return your old device (which essentially performs the same function as the new device purchased from us) for disposal free of charge when you purchase a new device.
Small appliances with no external dimensions greater than 25 cm can be disposed of in normal household quantities independently of the purchase of a new appliance.

Possibility of return at our company location during opening hours:
Simac GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn, Germany

Possibility of return in your area:
We will send you a parcel stamp with which you can return the device to us free of charge. Please contact us by e-mail at Service@joy-it.net or by telephone.

Information on packaging:
If you do not have suitable packaging material or do not wish to use your own, please contact us and we will send you suitable packaging.

9.   SUPPORT

We are also there for you after the purchase. If you still have questions or problems, we are also available by e-mail, telephone and ticket support system.

E-Mail: service@joy-it.net

Ticket-System: http://support.joy-it.net

Phone: +49 (0)2845 98469 – 66 (9:30 - 17:00 o'clock)

For further information please visit our website:

www.joy-it.net