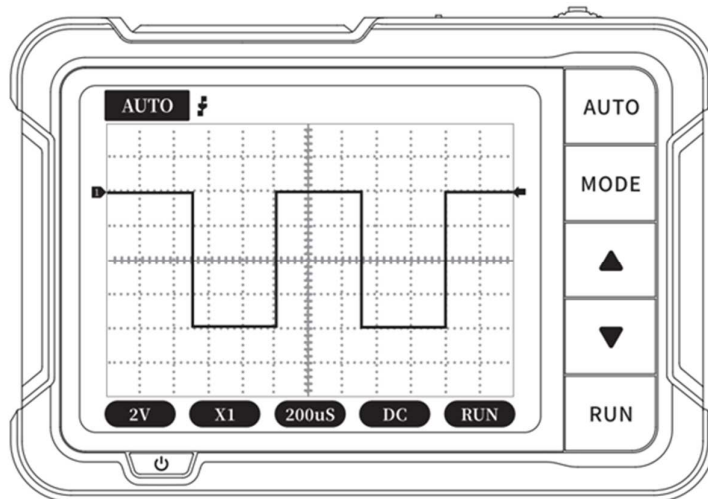


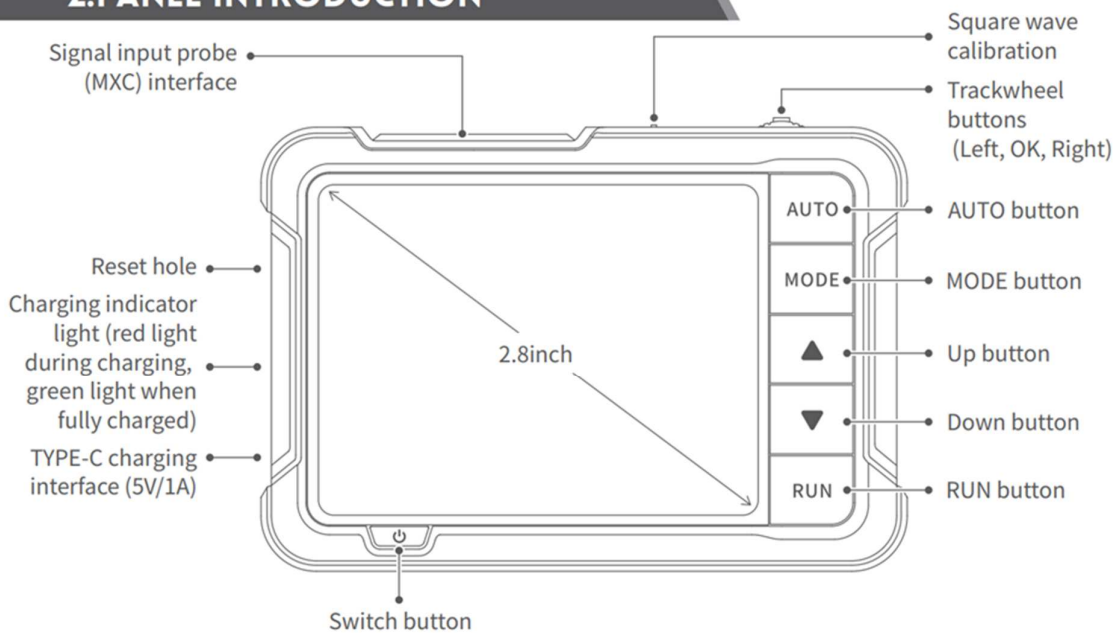
# DSO152

## DIGITAL OSCILLOSCOPE INSTRUCTION MANUAL









2.8-inch 320\*240 resolution high-definition LCD screen. Built-in 1000mAh high-quality lithium battery, can be used continuously for about 4 hours after fully charged.

## 2. PANEL INTRODUCTION



### 3.KEY FUNCTION

BUTTON	OPERATION	FUNCTION
	Short press	Control parameters function selection
	Short press	Exit auto calibration (Auto calibration page)
	Long press	Enter the automatic calibration page
	Short press	Control parameters function selection
AUTO	Short press	Automatic adjustment (frequency below 45Hz cannot be calibrated correctly)
MODE	Short press	AUTO/Single/Normal switching
	Long press	Rising edge/falling edge switching

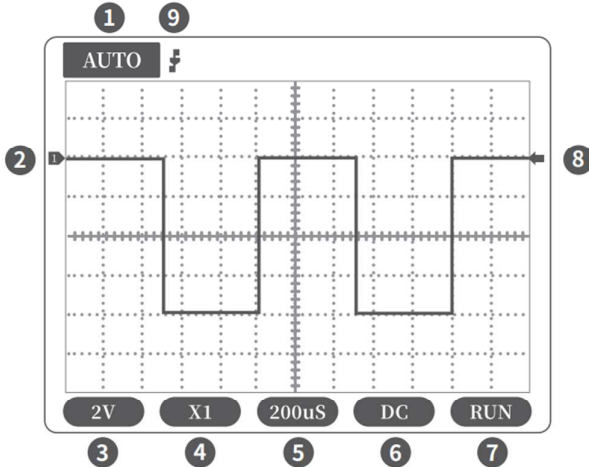
BUTTON	OPERATION	FUNCTION
	Short press	Parameter addition adjustment
	Short press	Parameter subtraction adjustment
RUN	Short press	Run/pause waveforms (other pages) Enter auto calibration (Auto calibration page)
	Long press	Show/close detailed parameters
	Short press	OFF
	Long press	On

## 4.PARAMETER INDEX

<b>Sampling rate</b>	2.5MS/s
<b>Bandwidth</b>	200K
<b>Vertical sensitivity</b>	10mV/Div-10V/Div(Progress according to the 1-2-5 way)
<b>Time base range</b>	10 $\mu$ s/Div-50s/Div(Progress according to the 1-2-5 way)
<b>Voltage range</b>	X1: $\pm$ 40V (Vpp:80V)
	X10: $\pm$ 400V (Vpp :800V)
<b>Trigger method</b>	Auto/Normal/Single
<b>Coupling method</b>	AC/DC
<b>Display</b>	2.8 inches/PPI:320*240
<b>USB charging</b>	5V/1A

<b>Lithium battery capacity</b>	1000mAh
<b>Square wave calibration</b>	Frequency: 1K      Duty cycle: 50%
<b>Size</b>	99x68.3x19.5mm
<b>Weight</b>	100g

## 5. SCREEN INSTRUCTIONS



① Trigger mode indicator icon, Auto means automatic trigger, Single means single trigger, Normal means normal trigger.

② Baseline indicator icon, this icon indicates the current position is 0V voltage.

③ Vertical sensitivity, which means the voltage represented by a large grid in the vertical direction.

④ 1X/10X mode indicator icon, this must be consistent with the 1X/10X switch setting on the probe handle, if the probe is in 1X mode, then the oscilloscope should also be set to 1X

mode, 1X measures  $\pm 40\text{V}$  voltage, 10X measures  $\pm 400\text{V}$  voltage.

⑤ Horizontal time base, indicating the length of time represented by a large grid in the horizontal direction.

⑥ Input coupling indicator icon, AC means AC coupling, DC means DC coupling.

⑦ Pause running indicator icon, RUN means running, STOP means pause.

⑧ Trigger voltage indicator icon      ⑨ Trigger edge indicator icon

## 6. FIRMWARE UPGRADE

**The device currently uses a USB analog U disk for firmware upgrade, and the upgrade steps are as follows:**

① Press the "OK" button after pressing the power button so that to enter the U disk upgrade mode.

② Use the Type-C cable to connect the Type-C port on the board to the computer. At this time, the computer will pop up a U disk named "DSO BOOT".

③ Pull the firmware into the U disk, and the firmware upgrade will complete.

### ! NOTE

The firmware upgrade is only supported on the computer Windows 10 system.

## 7. PRECAUTIONS

- After receiving the device, please use it after fully charged.
- When using the oscilloscope, pay attention to the selection of the gear, the gear of the oscilloscope should be consistent with the gear of the probe.
- When measuring high voltage, it is forbidden to touch any metal part of the oscilloscope to avoid the risk of electric shock.
- Try not to perform a high voltage test while charging.
  
- When calibrating, need to unplug the BNC probe, or short the positive and negative poles of the probe.
- The USB firmware upgrade only supports WIN10 or above, and it is forbidden to drag in files other than the released firmware, otherwise it may cause unrecoverable consequences.
- Please use the voltage within the specification range of the manual for charging.