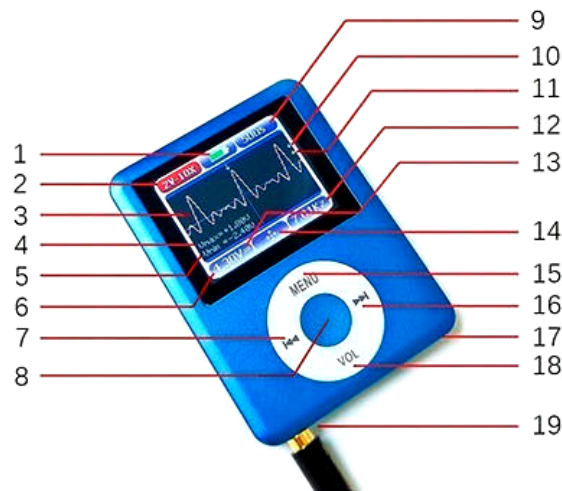# DSO NANO3

20MHz
50MS/s

Combination button usage description

In any mode, the oscilloscope is suspended for one second with "MODE", and the oscilloscope continues to run after one second of "MODE".

In any mode, press and hold "MODE" and "on", into the level of baseline correction (baseline level interface refers to the oscilloscope in no signal input of a signal waveform, usually the oscilloscope is a straight line, in the absence of input signal and the line in 0V (yellow arrow The location of the arrow indicates that if the location is offset, it is necessary to correct the 0V baseline to the direction indicated by the 0V arrow, and the OK key is the MODE key. For better correction, please pull out the MINI USB line so that the interference is minimal and the correction will be more accurate. After pressing "MODE", the system will self - adjust. If the screen is successful, the "successful" will be popped up and the correction is completed.

Hold "MODE" and "left" at the same time in any mode, open or hide the display of Vmax and Vmin

In any mode, hold "MODE" and "down" at the same time, and the screen appears "Power Off?" The system hints "turn off the machine?" Shut down according to "MODE" and press "down". Open the machine by "MODE" in the shutdown state

In any mode, press and hold "MODE" and "right", switching probe 1X and 10X input, note that if you switch to the 1X input, please switch on the dial wave probe to 1X, if set to 10X, the probe also want to make a call to 10X, otherwise the waveform display and measurement data is not accurate. In the 10X input mode, the vertical sensitivity of the top left corner of the screen will be displayed with the "-10X" suffix, with the "-1X" suffix in the 1X mode

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① The battery power shows the green part of the battery

② Vertical sensitivity, which eliminates the "/div" unit here, can be set to 1X mode

Note that the highest pressure 40V in 1X probe mode, so do not enter the voltage signal higher than 40V under 1X, because this may damage the oscilloscope. The signal under test in 1X mode is 0~40V and 10X mode to test 40~800V, so when the measured signal is below 40V, dial the probe to 1X and 40V~ 800V and dial the probe to 10X

③ Measured signal waveform

④ The maximum value Vmax of the measured waveform signal is for reference only (can be displayed and hidden by key settings)

⑤ The minimum voltage of the measured waveform signal is Vmin for reference only (can be displayed and hidden by key settings)

⑥ The peak and peak value of the measured waveform signal is Vpp for reference only. Note: only when the full 1~5 full cycle waveform is displayed, the peak and peak data are reliable

⑦ Button "left"

⑧ Button "MODE"

⑨ Time base, used to adjust the sampling rate, where the "/div" unit is omitted

⑩ Trigger voltage line indicator arrow

⑪ The horizontal baseline of the waveform indicates that the voltage is 0V here

⑫ The frequency of the measured waveform, in which Kz represents KHz, and Mz represents MHz, and the data is for reference only. Note: only when the full 1~5 full cycle waveform is displayed on the screen, the frequency value is reliable

⑬ The coupling icon is input, the transverse line represents the DC coupling, and the triangle wave icon represents the AC coupling

⑭ Pattern indicator icons can be switched on three modes in three modes: waveform zoom, wave motion, and trigger control

⑮ Button "up"

⑯ Button "right"

⑰ MINI USB charging port, 0.5C fast charging

⑱ Button "down"

⑲ 3.5mm special probe socket

Clicking the "MODE" key can turn the current keyboard on and down. At the bottom of the screen, there will be a display of the corresponding function icons, which are divided into three modes:

⊕ For the scaling function of the waveform, that is to adjust the vertical sensitivity and time base. In this mode, the upper and lower keys regulate the vertical sensitivity (signal amplification or attenuation), and the left and right keys adjust the time base (sampling rate)

✥ For the movement of the waveform, the waveform moves along with the direction indicated by the key

⌐ 或 ⌐ To trigger the voltage adjustment function, the "up" button increases the trigger voltage value, "down" button reduces the trigger voltage value, "left" switching coupling mode, and "right" switch triggers the edge.

Start: start with the "MODE" key

Shutdown: press "MODE" + "down" into the shutdown prompts page, then press "MODE" or press "down" to cancel the shutdown

Vertical or narrow waveforms: amplify or reduce the waveform vertically or down in the zoom mode.

Horizontal amplification or reduction of waveform: enlarging or narrowing the waveform at the "left" or "right" levels in the zoom mode

Wave movement: in the mobile mode, press the key of the corresponding direction, the waveform will move accordingly

Waveform fixation (capture): in the trigger mode, the trigger voltage line is adjusted to fix the waveform between the waveforms.

Set the trigger edge: in the trigger mode, trigger the edge by "right" switch

Set the input coupling: in the trigger mode, switch coupling by "left" or "right"

Baseline offset calibration: if the baseline is offset, enter the baseline calibration interface according to "MODE" + "up", pull out the probe and USB charge line first, and then press "MODE" to determine the calibration

Display Vmax and Vmin: press "MODE" + "left" and open or close its display

Set 1X or 10X mode: in any mode, press "MODE" + "right" to switch between 1X mode and 10X mode. When set to 1X mode, the probe is also allocated to 1X. When set to 10X mode, the probe is also set to 10X.

Charging requirements: use the mobile phone general 5V/1A or 2A or 4A charger The power of the computer USB is too small to be dissatisfied

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parameter	
Model	DSO NANO3
Display	1.8 Inch
Channels	1
Input	1MΩ
Bandwidth	20MHz
Sampling rate	50MS/s
Rise time	≤20nS
Storage depth	384KB
Vertical	50mV/div ~ 200V/div
Time base	100mS/div ~ 100nS/div
Trigger	Rising / Falling
Coupling	AC / DC
Voltage	1X : 40V , 10X : 600V
Battery	800mAH (6 hours of continuous use)
Charge	5V/1A , 5V/2A , 5V/4A , Do not use the computer USB
Size	73mm * 55mm * 10mm
Shipping list	Host + 60M probe + charging line + instructions

Strong warning: when the signal >40V is measured, do not forget to move the switch on the probe handle to the 10X position, otherwise the oscilloscope may burn out !