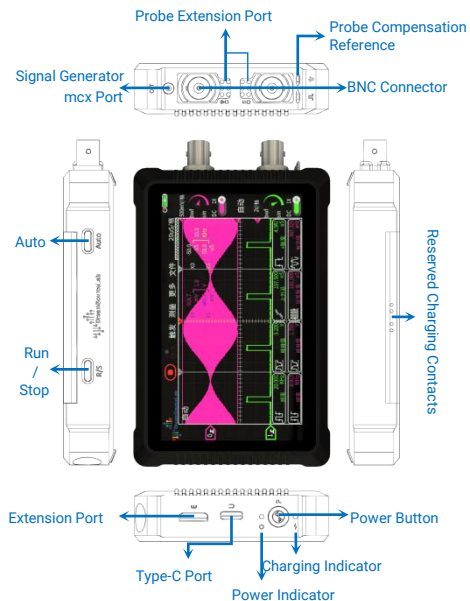


DSTouch

Ultra-portable Touchscreen Oscilloscope Quick Start Guide



0. Introduction

DSTouch oscilloscope combines the high performance of a desktop oscilloscope with the touch screen experience of a smartphone. In terms of performance, it utilizes FPGA-based hardware waveform engine architecture, and a large storage depth based on DRAM. In terms of operation, it creatively designed a set of "single-finger touch" methods, simplifying all functions into 1-3 tap and swipe operations

DSTouch oscilloscope is equipped with a built-in high-capacity lithium battery, making it an ideal palm-sized portable instrument.

1. Power On/Off

To prevent accidental power on/off caused by touching the power button, DSTouch provides a long press power button to switch on/off and touch screen shutdown function

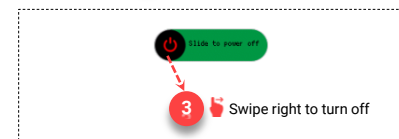
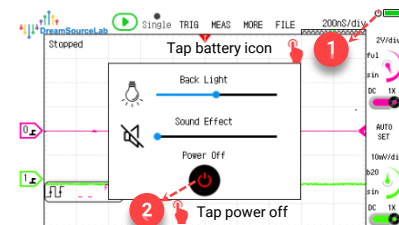
• Button Power On/Off:

Press & hold 1s to power on



Press & hold 3s to power off

• Touch Power Off (👉👉👉):



2. Run/Stop

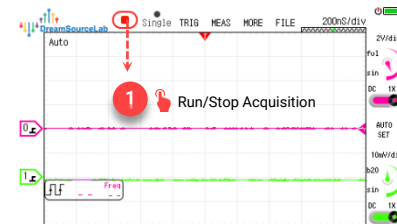
DSTouch oscilloscope has physical and touch buttons for easy run/stop control, meeting common usage needs.

• Button Run/Stop:

Run/Stop Acquisition



• Touch Run/Stop (👉):



3. Probe

BNC interface on DSTouch allows compatibility with all standard BNC probes, expanding usability.

• Probe compensation:

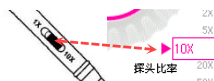
Connect probe to oscilloscope's compensation reference signal.

Adjust probe compensation capacitor until waveform matches desired display.



• Probe attenuation

Match probe attenuation with oscilloscope channel probe ratio during use.

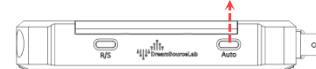


4. Autoset

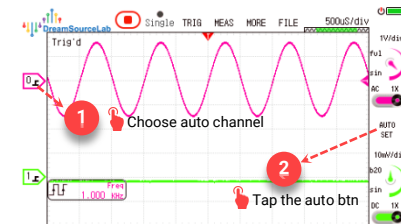
DSTouch Oscilloscopes offer powerful autoset features for convenient and stable display of measured waveforms with a single button press.

• Button Autoset:

Press this btn to autoset



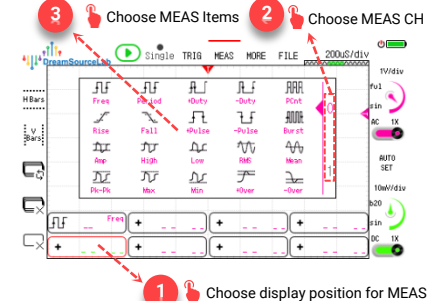
• Touch Autoset (👉👉👉):



5. Auto measurement

DSTouch oscilloscope simplifies adding/removing measurement on traditional scopes. Just a few taps to add/delete auto measurements from a menu of 20 commonly used options.

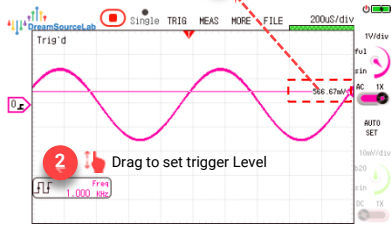
• Measurement Selection (👉👉👉):



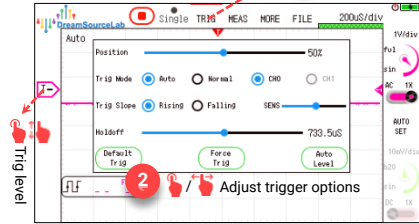
6. Trigger

DSTouch oscilloscope has reliable hardware triggering and adjustable sensitivity and hold-off time.

- Trigger level** (👉 → 👉): 1 👉 Tap to hit trig level



- Trigger Options** (👉 → 👉): 1 👉 Open options



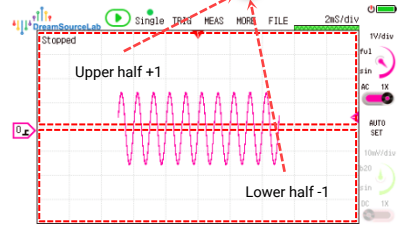
Trigger Sensitivity: Adjust the trigger level hysteresis window. Smaller values provide more sensitive triggering, while larger values increase stability in noisy signals.

Hold-off time: Delay period after each trigger before the trigger circuit resumes operation. It prevents triggering during this interval, even if the trigger conditions are met. Setting a reasonable hold-off time allows stable capture and analysis of burst signal waveforms, commonly seen in communication signals with alternating "idle" and "transmission" patterns.

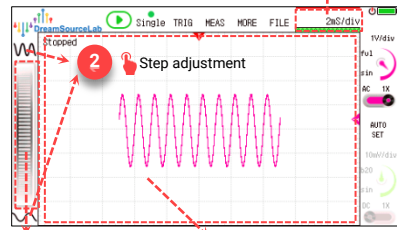
7. Horizontal System.

- Horizontal Timebase:**

Meth 1: Default Win (👉 → 👉): 1 👉 Click waveform area

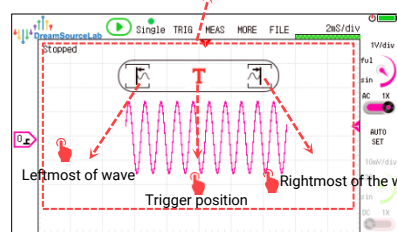


Meth 2: Hori Adjust (👉 → 👉): 1 👉 On/Off Hori Adjust



2 👉 Scroll wheel 2 👉 Scroll wave area up/down

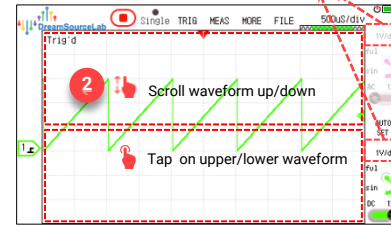
- Hori Position** (👉 → 👉): 1 👉 Scroll wave area horiz.



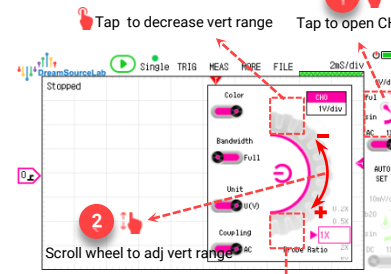
8. Vertical System and Channel Options

- Vertical Sensitivity:**

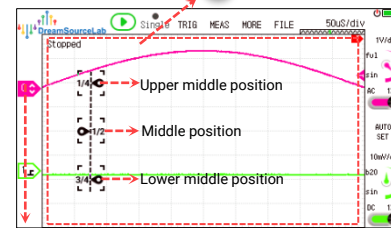
Meth 1: Default Win (👉 → 👉): 1 👉 Select channel to adjust



Meth 2: CH Opt Win (👉 → 👉): 1 👉 Tap to decrease vert range

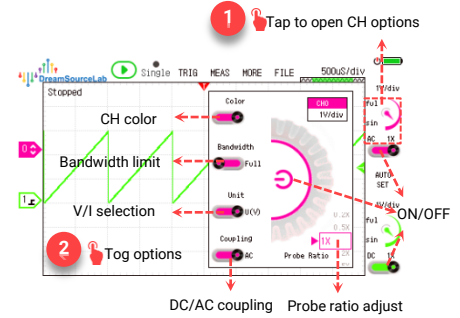


- Vertical pos.** (👉 → 👉): 2 👉 Drag up/down



- 1 👉 Select channel

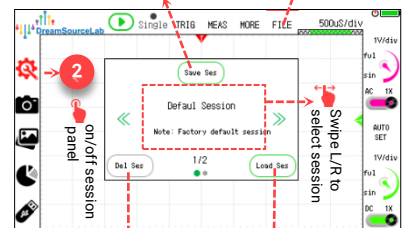
- Channel options** (👉 → 👉):



9. Save/Load session and file operations

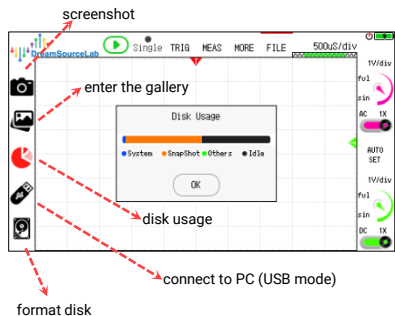
DSTouch oscilloscope offers 9 one-click switching sessions for different testing scenarios, eliminating the need to repeatedly adjust oscilloscope parameters.

1 👉 On/off file menu



The internal disk provided by the DSTouch oscilloscope can be used for screenshots and connected to a computer as a U-disk function. Firmware upgrades and other operations can be completed through U-disk mode.

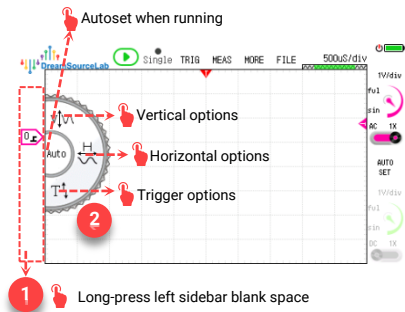
Other file-related operations are shown in the following figure. "format disk" will not affect the function of the oscilloscope, but all user-related personalized settings will be cleared.



10. Quick Menu

DSTouch oscilloscope provides Quick Menu. Most operations can be completed with the thumb while holding the oscilloscope with the left hand, freeing up the other hand to fix the probe and test points.

Long-press on left can bring up the Quick Menu. Switch settings for vertical, horizontal, and trigger options. Adjust settings by sliding in the waveform area.

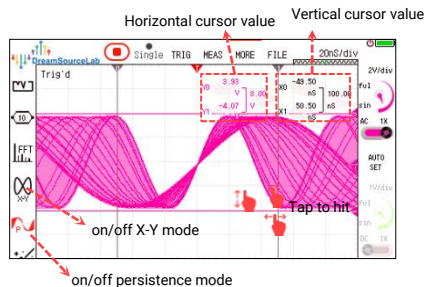


11. More Features

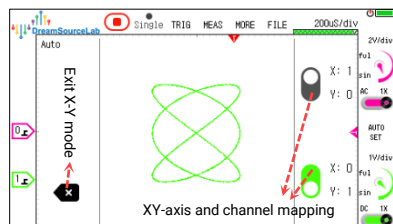
DSTouch oscilloscope offers additional practical features including FFT, protocol decoders, cursor measurements, X-Y mode, persistence function, auto calibration, and signal generator, etc.

Check user manual and other docs for more on DSTouch.

• Persistence & cursors



• X-Y mode



• Signal generator

