

# Oscilloscope + Multimeter + Signal Generator

Multi-function oscilloscope multimeter,  
25,000 words/four-and-a-half digits high precision.  
With multimeter function,  
oscilloscope function and signal generator;



# Core strengths

Oscilloscope  
+ Multimeter  
+ Signal Generator



Rechargeable  
Lithium Battery



Chinese and English  
Language  
Switching



wideband



Full Waveform  
Measurement



Intelligent  
anti-burn



TFT true  
colour screen



true rms



Data retention



AC and DC  
Voltage



AC and DC  
current



resistive



capacitors



thyristor



on-off buzzer



frequency



# Full View True Colour

3.5-inch colour screen  
320\*240 resolution



# Double injection moulded body

## Reinforced structure



Drop-proof case



# More Oscilloscope Functions Make measurements more efficient



Overclocking Mode



afterglow mode



MY Mode





## Charge/Transfer 2-in-1

Support fast charging

Data Visualisation Design

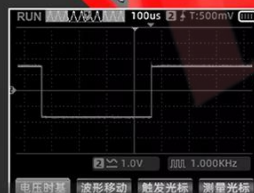
## Waveform Save Screenshot Save

Long press the SAVE button for 2 seconds to take a screenshot and save it in order to view the full screen picture and to make a secondary analysis of the saved waveform data for secondary analysis, or connect it to PC via USB cable, access to the stored waveforms;

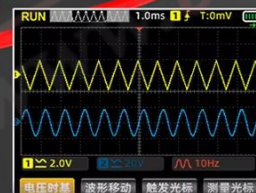


## Dual channel input

Dual channel 2x50MHz wideband  
Signal comparison for better  
judgement and analysis of problems



VS



### single channel

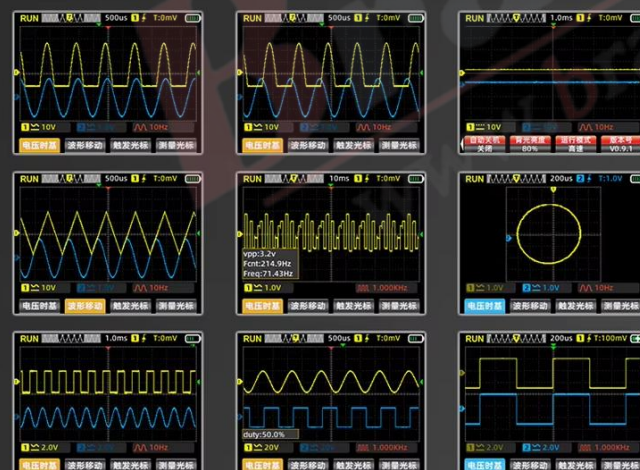
Lack of comparison, repeated  
measurements to judge the problem

### dual channel

Signal comparisons are better  
for determining and analysing  
problems

## Arbitrary waveforms Measurement display

Multiple waveform measurements for your daily needs



# OSCILLOSCOPE MULTIMETER

## PARAMETER TECHNICAL INDICATORS



## MULTIMETER TECHNICAL INDICATIONS

| functionality                 | range             | resolution            | accurate        |
|-------------------------------|-------------------|-----------------------|-----------------|
| DC Voltage V                  | 2.5000v~1000.0V   | 0.0001V~0.1V          | ± (0.05%+3)     |
| DC voltage mV                 | 25.000mV~250.00mV | 0.001mV~0.01mV        |                 |
| AC Voltage V                  | 2.5000v~750.0V    | 0.0001V~0.1V          | ± (0.5%+3)      |
| AC voltage mV                 | 25.000mV~250.00mV | 0.001mV~0.01mV        |                 |
| DC current A                  | 2.5000A~10.000A   | 0.0001A~0.001A        | ± (0.5%+3)      |
| DC current mA                 | 25.000mA~250.00mA | 0.001mA~0.01mA        |                 |
| AC current A                  | 2.5000A~10.000A   | 0.0001A~0.001A        | ± (0.8%+3)      |
| AC current mA                 | 25.000mA~250.00mA | 0.001mA~0.01mA        |                 |
| AC current frequency response | 40Hz~1kHz         |                       |                 |
| Resistance                    | 0~250.0MΩ         | 0.01Ω~0.1MΩ           | ± (1%+3)        |
| Capacitance                   | 0~99.99mF         | 0.001nF~0.01mF        | ± (2.0%+5)      |
| Frequency                     | 0~999.9kHz        | 0.01Hz~0.1kHz         | ± (0.1%+3)      |
| Diode                         | √                 | Low battery indicator | √               |
| Buzzer                        | √                 | Screen Backlight      | √               |
| Display                       | 25000 words       | Language              | Chinese/English |
| Range                         | Auto+Manual       | Screen Size           | 3.5 inch        |
| Material                      | ABS+TPE           | Screen Resolution     | 320*240         |
| Sampling Rate                 | 3 times/second    | Battery               | 18650 Battery*1 |
| True RMS                      | √                 | Battery               | 380g            |
| Data Hold                     | √                 | Size                  | 177*89*40mm     |
| Backlighting                  | √                 |                       |                 |

## Oscilloscope Technical Indications

| characterisation |                         | clarification      |
|------------------|-------------------------|--------------------|
| wideband         | 50MHz                   | Dual Channel       |
| sample           | Sampling Method         | Real-time sampling |
|                  | Real-time sampling rate | 200M/280MSa/s      |
| switching mode   | 2                       | Dual Channel       |

|                                                |                                                              |                                                                              |
|------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------|
| importation                                    | Input Coupling                                               | DC, AC                                                                       |
|                                                | Input Impedance                                              | 1M $\Omega$ , @16pf                                                          |
|                                                | Probe Attenuation                                            | X1, X10                                                                      |
|                                                | Maximum Input Voltage                                        | x1 <150V, x10 <300V (DC+AC peak)                                             |
| level                                          | Sample Rate Range                                            | 1.5Sa/s-280MSa/s                                                             |
|                                                | Waveform interpolation                                       | (sinx)x                                                                      |
|                                                | Sweep Speed Range                                            | 10ns/div-20s/div                                                             |
|                                                | Time base accuracy                                           | 20ppm                                                                        |
|                                                | Record Length                                                | Up to 128Kbyte                                                               |
| perpen<br>-dicular                             | Sensitivity                                                  | 20mV/div-10V/div                                                             |
|                                                | Displacement range                                           | 4 cells (positive and negative)                                              |
|                                                | Analogue Broadband                                           | 50MHz                                                                        |
|                                                | Low Frequency Response                                       | Greater than 10Hz                                                            |
|                                                | Rise Time                                                    | Less than 10ns                                                               |
|                                                | DC Gain Accuracy                                             | $\pm 3\%$                                                                    |
| surveying                                      | Automatic measurement                                        | Period, frequency, peak-to-peak, max, Min, RMS, Duty Cycle, Number of Pulses |
| trig                                           | Trigger mode                                                 | Auto, Normal, Single                                                         |
|                                                | Trigger Edge                                                 | Rising Edge, Falling Edge                                                    |
| Signal Generator<br>Signal Generator<br>Output | Sine wave, square wave, sawtooth wave, half wave, full wave, |                                                                              |
| Operation Mode                                 | Normal mode 200MSa/s, high speed mode 280MSa/s               |                                                                              |
| Display Mode                                   | YT, XY, Rolling                                              |                                                                              |
| Afterglow mode                                 | Minimum, 500ms, 1s, 10s, Unlimited                           |                                                                              |