

# TAO3000

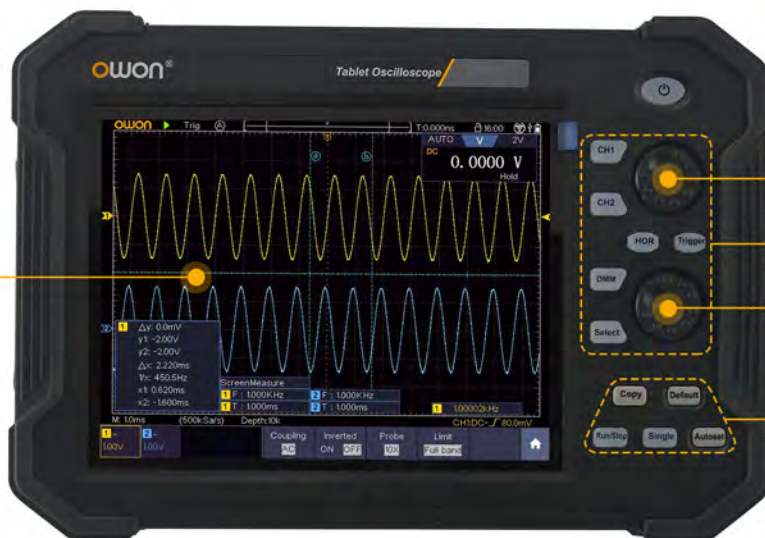
## Tablet Digital Oscilloscope



- + Dual channels, 70 MHz – 120 MHz bandwidth, 1GSa/s sample rate
- + Oscilloscope + 4½ digits multimeter + data logger (dual-channel model)
- + 14-bit high-resolution hardware optional
- + Excellent measurement performance:
  - 40M record length, 45000 wfms/s waveform refresh rate, low background noise
- + Multiple advanced trigger and bus decoding function
- + Built-in 8000 mAh large capacity battery, can work continuously for 5 hours
- + 8-inch multi-point capacitive touchscreen
- + Multiple communication interfaces:
  - USB Device&Host (USBTMC supported), LAN, SCPI supported



8-inch (800 x 600) multi-point touchscreen



Knob to adjust vertical position, horizontal position and trigger level

Channel selection, horizontal and vertical control areas, and multimeter control area

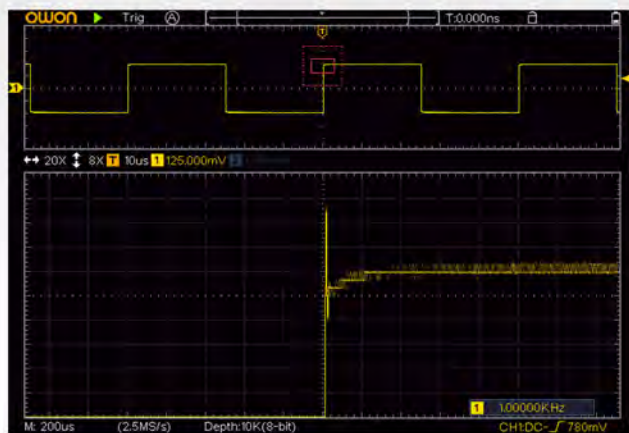
Knob to adjust voltage scale and time base

Common function shortcut keys (including Copy, Default, Autoset, Run/Stop, etc.)

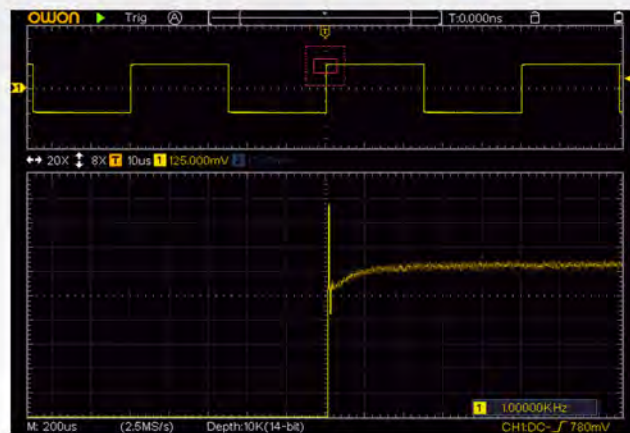




## 14-bit hardware ADC, high measurement accuracy



Magnifier view of 8 bits sampling



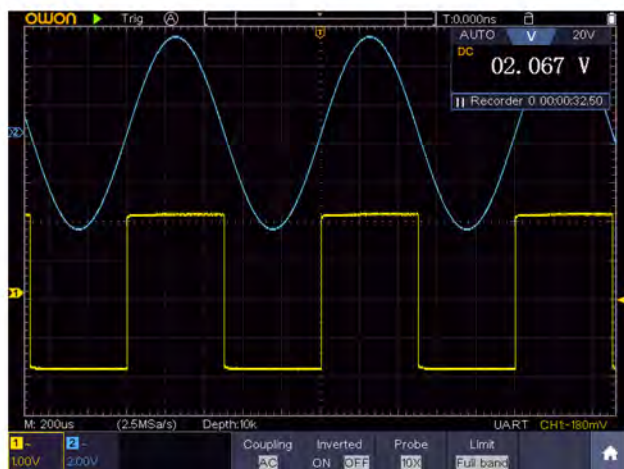
Magnifier view of 14 bits sampling

Original view

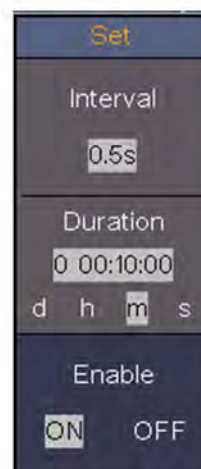
Magnifier view

TAO3000 series is equipped with 14-bit high-resolution hardware ADC, the precision is 64 times against other oscilloscope on market. You can observe the waveform details more clearly, and measure the changes of small voltage signals more accurately.

## Multiple functions in one, make testing more convenient



the multimeter interface shows on the same screen with oscilloscope



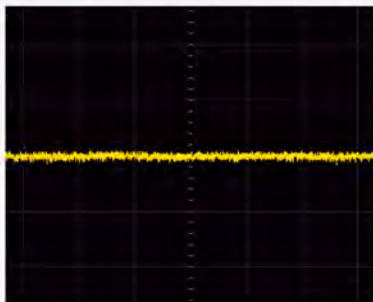
The data logging function of multimeter

Built-in 4½ digits multimeter, the multimeter interface shows on the same screen with oscilloscope. The data logging function of multimeter can record data for a long time, and export to CSV file.

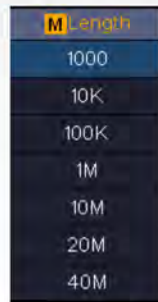


## Excellent oscilloscope performance, low background noise, high storage, high refresh

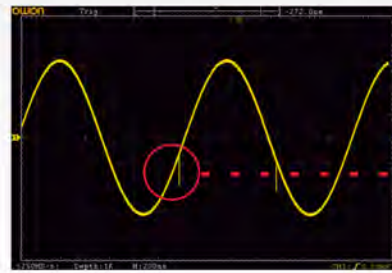
Low background noise allows the oscilloscope to have better small signal measurement capabilities. High storage allows the oscilloscope to acquire longer signals. High refresh rate allows the oscilloscope to capture waveform details and exceptional events.



Low background noise



40M record length



45000 wfms/s refresh rate, easily capturing exceptional, and low probability events

## Multiple trigger and bus decoding function



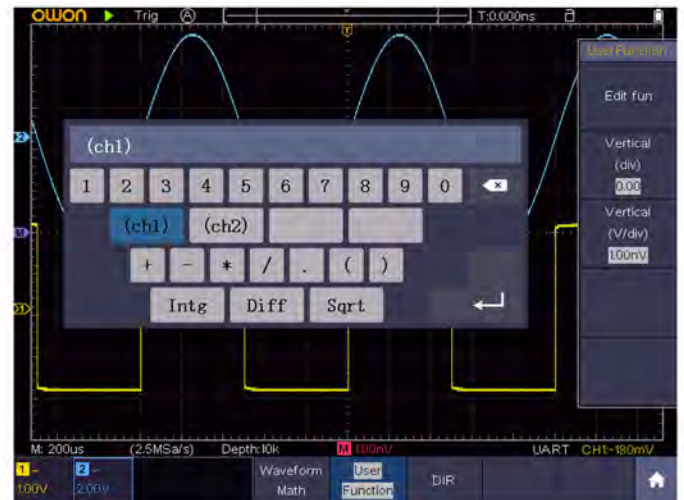
TAO3000 series handheld oscilloscopes support multiple trigger modes, including Edge, Video, Pulse, Slope, Runt, Windows, Timeout, I2C, SPI, RS232/UART, CAN, and Nth Edge.



Serial bus coding available in I2C, SPI, RS232/UART, and CAN.

## Multiple waveform math operations

Support +, -, \*, /, FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)



## Built-in Wi-Fi module

Built in Wi-Fi module, the user can connect with TAO3000 through mobile device, realize the same screen display and control, store and view waveform data through app, share with friends, realize collaborative analysis and successfully complete the work.





# Multiple operation methods, make field testing more convenient



## handheld Type

The back is equipped with anti falling elastic belt.



## Bracket Type

With bracket, it can be placed on the table



## Knapsack Type

Optional outdoor Backpack

## PRODUCT SPECIFICATIONS

Model	TAO3072	TAO3102	TAO3122	TAO3072A	TAO3102A	TAO3122A
Bandwidth	70MHz	100MHz	120MHz	70MHz	100MHz	120MHz
Sample Rate	1GS/s					
Vertical Resolution (A/D)	8 bits			8bits/12bits/14 bits		
Record length	40M					
Waveform Refresh Rate	45000 wfms/s					
Horizontal Scale (s/div)	1ns/div - 1000s/div, step by 1 - 2 - 5					
Channel	2					
Display	8" color LCD, 800 x 600 pixels display, multi-touch screen					
Input Impedance	1MΩ ± 2%, in parallel with 15pF ± 5pF					
Max Input Voltage	1MΩ ≤ 300Vrms;					
DC Gain Accuracy	±3%					
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5					
Input Coupling	DC, AC, GND					
Vertical Sensitivity	1mV/div - 10V/div (at input)					
Trigger Type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I <sup>2</sup> C, SPI, RS232/UART, and CAN (optional)					
Bus Decoding(optional)	I <sup>2</sup> C, SPI, RS232/UART, CAN					
Trigger Mode	Auto, Normal, and Single					
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Peak RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase A→B ↑, Phase A→B↓, Preshoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Duty Cycle, Delay A→B ↑, Delay A→B↓, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edges Count, Area, Cycle Area, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF					
Waveform Math	+, -, ×, ÷, FFT, FFTrms,Intg,Diff,Sqrt, User Defined Function, Digital Filter					
Waveform Storage	100 waveforms					
Communication Interface	USB host, USB device, Pass/Fail, LAN, and WIFI (optional)					
Frequency Counter	available					
Battery	7.4V, 8000mAh, 5 hours operation					
Dimension(WxHxD)	270 x 191 x 48 (mm)					
Device Weight	About 1.7kg					

### + Multimeter Specifications (only apply for 2 channels model)

Display	Voltage	Current	Impedance	Diode	Auto Ranging
4 ½ digitals	mV: 20.000mV - 200.00mV DCV: 2.0000V - 1000.0V ACV: 2.0000V - 750.0V	ACD: 20.00A ACA:20.00A	200.00Ω - 100.00MΩ	√	√





- 1 TAO3000
- 2 Power Cord
- 3 Adapter
- 4 Probe x2
- 5 Micro USB Cable
- 6 Current Ext Module
- 7 BNC-SAM
- 8 Multimeter Lead
- 9 Probe Adjust
- 10 Stand Holder
- 11 CD Rom and Quick Guide

**Dimension (W×H×D):** 270 x 191 x 48 (mm)

**Device Weight:** Approx. 1.7kg

**Packaging Size (W×H×D):** 370 x 268 x 146 (mm)



Bag (optional)