

# TAO3000

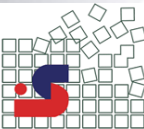
Tablet Digital Oscilloscope



شرکت صانن

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- + 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

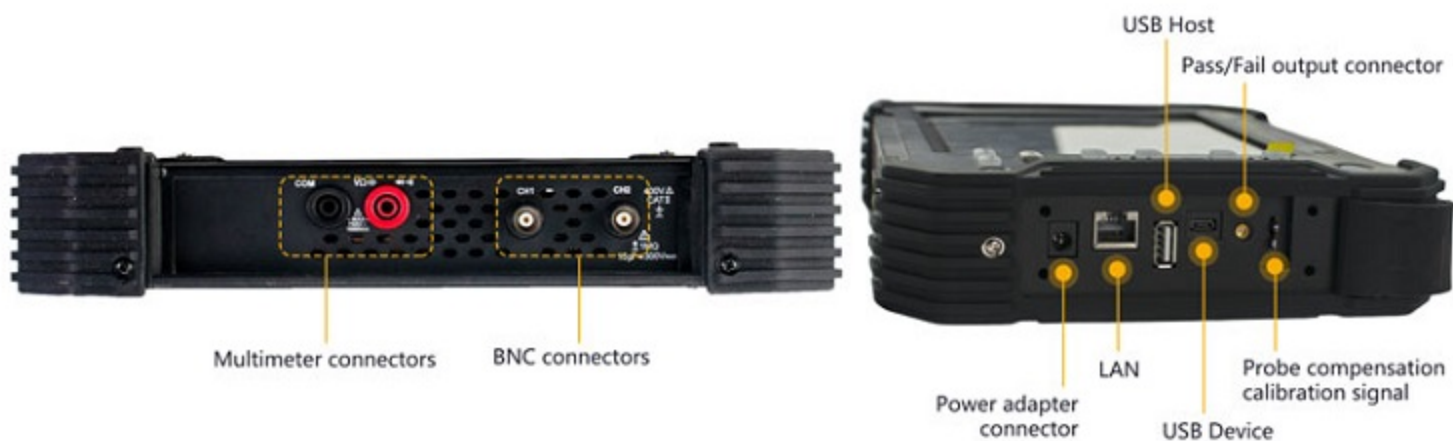


Knob to adjust vertical position,  
horizontal position and trigger level

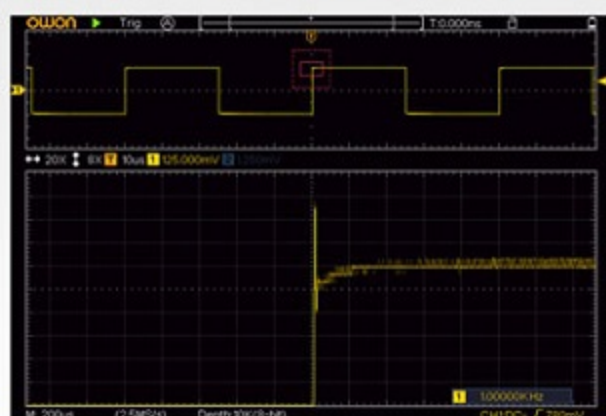
Channel selection, horizontal and  
vertical control areas, and multimeter  
control area

Knob to adjust voltage scale and  
time base

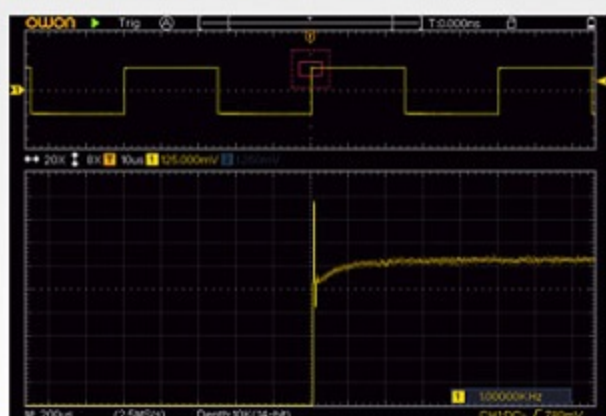
Common function shortcut keys  
(including Copy, Default, Autoset,  
Run/Stop, etc.)



## 14-bit hardware ADC, high measurement accuracy



Magnifier view of 8 bits sampling



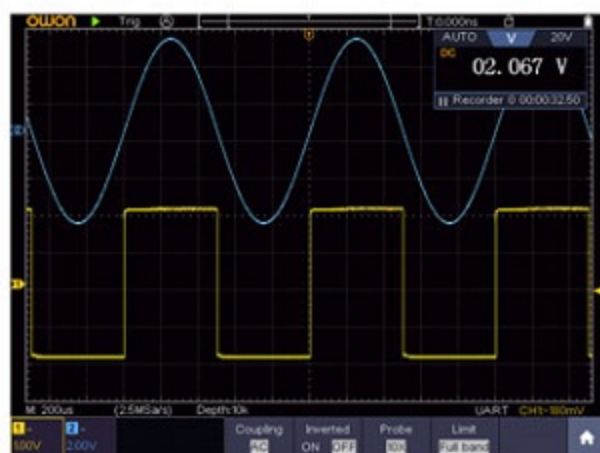
Magnifier view of 14 bits sampling

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



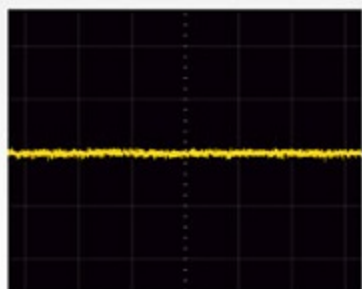
The data logging function of multimeter

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.

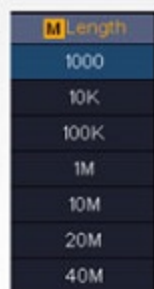


## Excellent oscilloscope performance, low background noise, high storage, high refresh

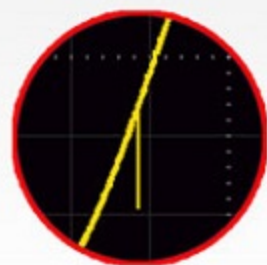
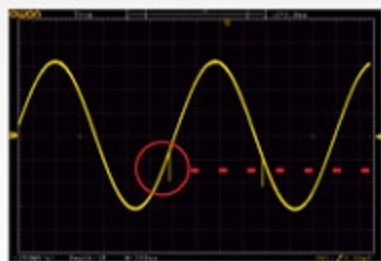
Low background noise allows the oscilloscope to have better small signal measurement capabilities. High storage allows the oscilloscope to acquire longer signals. High refresh rate allows the oscilloscope to capture waveform details and exceptional events.



Low background noise

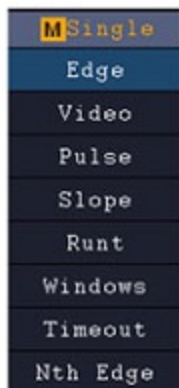


40M record length



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

## Multiple trigger and bus decoding function



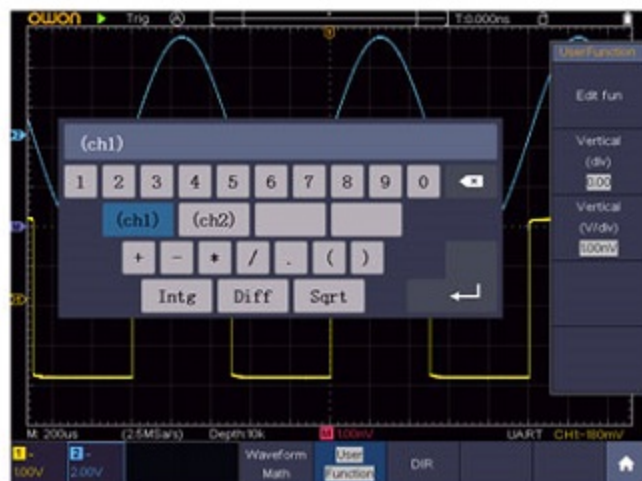
TAO3000 series handheld oscilloscopes support multiple trigger modes, including Edge, Video, Pulse, Slope, Runt, Windows, Timeout, I2C, SPI, RS232/UART, CAN, and Nth Edge.

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

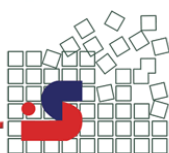
Built in Wi-Fi module, the user can connect with TAO3000 through mobile device, realize the same screen display and control, store and view waveform data through app, share with friends, realize collaborative analysis and successfully complete the work.



Model	TAO3072	TAO3102
Bandwidth	70MHz	100MHz
Sample Rate	1GS/s	
Record length	40M	
Waveform Refresh Rate	45,000 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, and 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, and CAN (optional)	
Bus Decoding(optional)	I <sup>2</sup> C, SPI, RS232, CAN	
Trigger Mode	Auto, Normal, and Single	
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Weok 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	
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 Wi-Fi (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 1/2 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)



small bag (free)