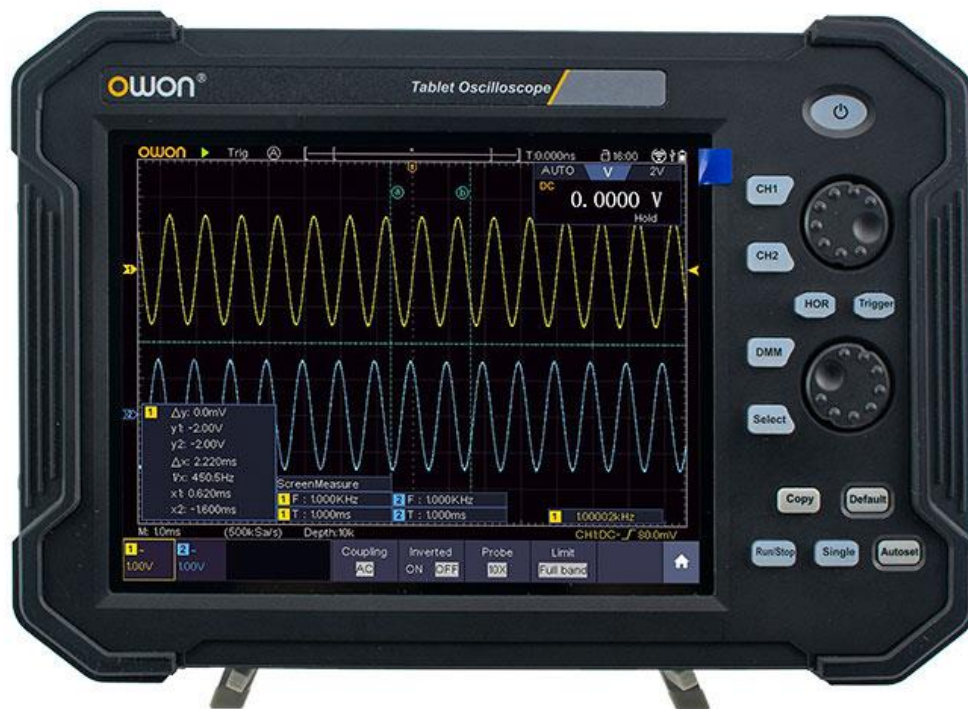


TAO3000 Series 2CH 8/14bit Tablet Oscilloscope

- + Dual channels, 70MHz-120MHz bandwidth, 1GS/s sample rate
- + Oscilloscope+ 4 1/2 digits multimeter+data logger
- + Optional 14-bit high resolution ADC
- + Max 40M record length; max 45,000 wfms/s waveform refresh rate
- + Built-in 8000mAh large capacity battery, can work continuously for 5 hours
- + 8 inch multi=point capacitive touchscreen
- + SCPI, and LabVIEW supported
- + multi- trigger, and bus decoding function
- + multi-interface integration - USB host, USB device, LAN, WIFI(optional)





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

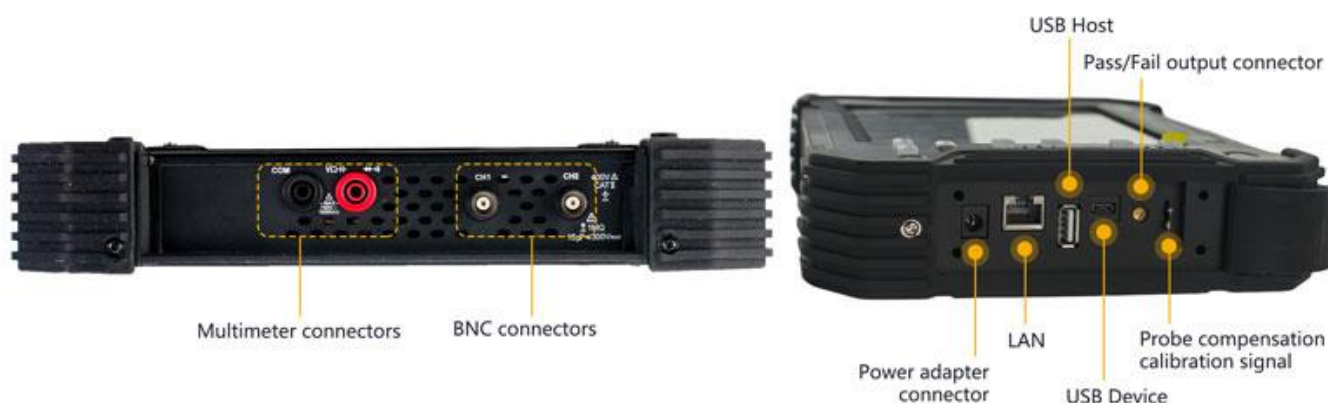


Knob to adjust vertical position,
horizontal position and trigger level

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

Knob to adjust voltage scale and
time base

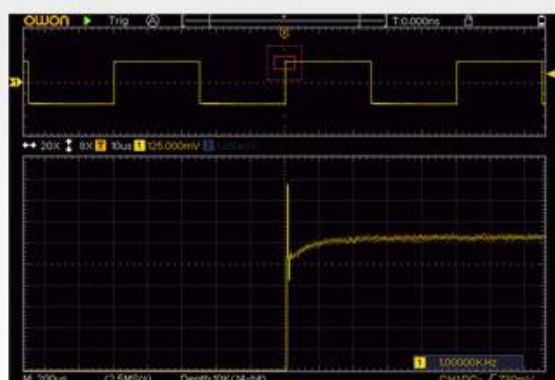
Common function shortcut keys
(including Copy, Default, Autoset,
Run/Stop, etc.)



14-bit hardware ADC, high measurement accuracy



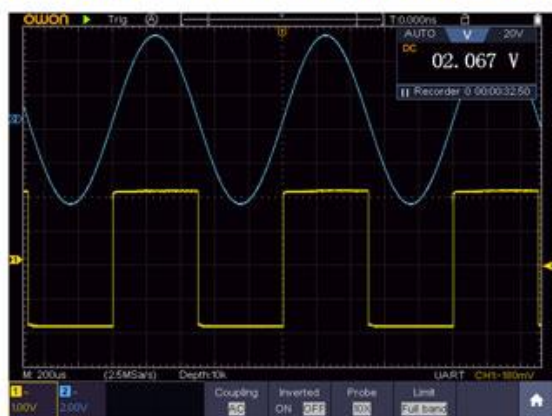
Magnifier view of 8 bits sampling



Magnifier view of 14 bits sampling

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

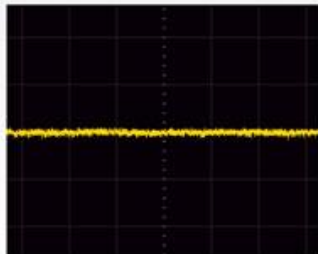


The data logging function of multimeter

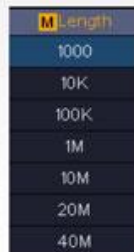
Built-in 4½ digits multimeter, the multimeter interface shows on the same screen with oscilloscope. The data logging function of multimeter can record data for a long time, and export to CSV file.

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

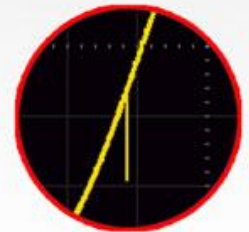
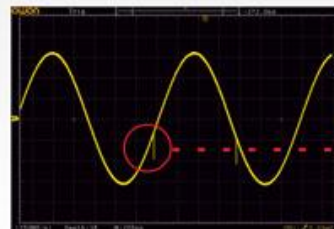
Low background noise allows the oscilloscope to have better small signal measurement capabilities. High storage allows the oscilloscope to acquire longer signals. High refresh rate allows the oscilloscope to capture waveform details and exceptional events.



Low background noise

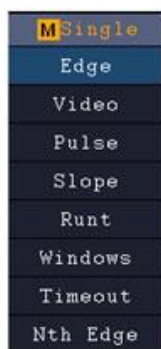


40M record length

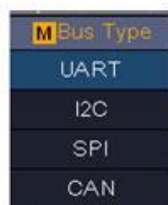


45000 wfms/s refresh rate, easily capturing exceptional, and low probability events

Multiple trigger and bus decoding function



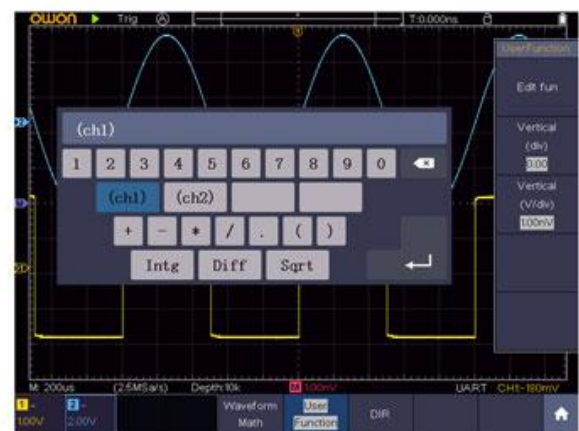
TAO3000 series handheld oscilloscopes support multiple trigger modes, including Edge, Video, Pulse, Slope, Runt, Windows, Timeout, I2C, SPI, RS232/UART, CAN, and Nth Edge.



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.



PRODUCT COMPARISON



- | | | | | |
|----------------------|---------------------------|-------------------|----------------|-------------------|
| 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)

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	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	1M Ω $\pm$ 2%, in parallel with 15pF $\pm$ 5pF					
Max Input Voltage	1M Ω $\leq$ 300Vrms;					
DC Gain Accuracy	$\pm$ 3%					
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5					
Sample Rate / Relay Time Accuracy	$\pm$ 2.5ppm					
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, I2C, SPI, RS232, and CAN (optional)					
Bus Decoding(optional)	I2C, SPI, RS232, CAN					
Trigger Mode	Auto, Normal, and Single					
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Week RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase A $\rightarrow$ B $\uparrow$, Phase A $\rightarrow$ B $\downarrow$, Preshoot, Rise Time, Fall Time,+Width, -Width, +Duty, -Duty, Duty Cycle, Delay A $\rightarrow$ B $\uparrow$, Delay A $\rightarrow$ B $\downarrow$, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edges Count, Area, Cycle Area					
Waveform Math	+, -, $\times$, $\div$, FFT, FFTrms,Intg,Diff,Sqrt, User Defined Function, Digital Filter					
Waveform Storage	100 waveforms					
Communication Interface	USB host, USB device, USB port for PictBridge,LAN, and WIFI (optional)					
Frequency Counter	available					
Battery	7.4V, 8000mAh, 5 hours operation					
Dimension(WxHxD)	270x191x48 (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	200.00 Ω - 100.00M Ω	$\sqrt{}$	$\sqrt{}$

Support

- ▶ [APP for TAO3000 series digital oscilloscope](#)
- ▶ [Quick Guide for TAO3000 Series 2CH Oscilloscopes](#)
- ▶ [User Manual for TAO3000 Series 2CH Oscilloscopes](#)
- ▶ [PC software for OWON TAO3000 Series digital oscilloscope](#)

Accessories

The accessories subject to final delivery.

Power Cord

CD Rom

Quick Guide

USB Cable

2x Probe

Probe Adjustment

Multimeter Lead

AC Adapter

Current Extension Module