

TAO3000 Series 4CH 8/14bit Tablet Oscilloscope

- + Max 100MHz Bandwidth, 1GS/s sample rate
- + Max 14-bit high resolution ADC
- + Max 40M record length; max 45000 wfms/s waveform refresh rate
- + low back ground noise
- + 8 inch 800 x 600 high resolution LCD, multi-touch screen, more user-friendly operation experience
- + SCPI, and LabVIEW supported
- + multi- trigger, and bus decoding function
- + multi-interface integration - USB host, USB device, LAN, Wifi(optional)



TAO3000

Tablet Digital Oscilloscope

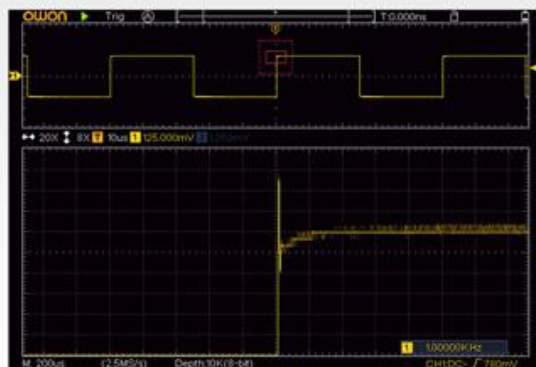


- + Four channels, 70 MHz – 100 MHz bandwidth, 1GSa/s sample rate
- + 14-bit high-resolution hardware optional
- + Excellent measurement performance:
40M record length, 45000 wfms/s waveform refresh rate, low background noise
- + Multiple advanced trigger and bus decoding function
- + Built-in 8000 mAh 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

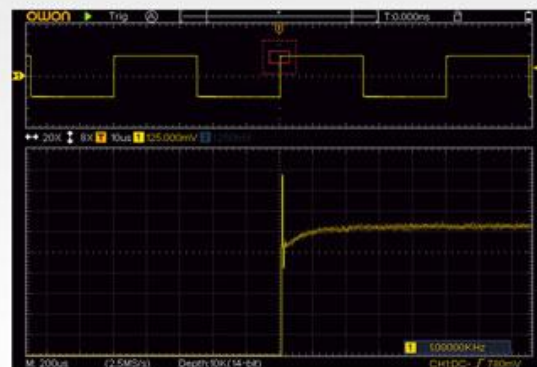




14-bit hardware ADC, high measurement accuracy



Magnifier view of 8 bits sampling

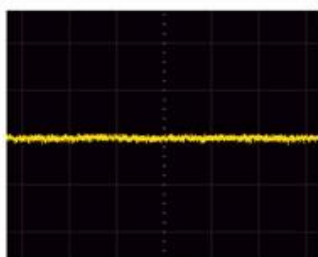


Magnifier view of 14 bits sampling

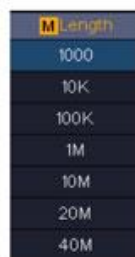
TA03000 series is equipped with 14-bit high-resolution hardware ADC, the precision is 64 times against other oscilloscope on market. You can observe the waveform details more clearly, and measure the changes of small voltage signals more accurately.

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

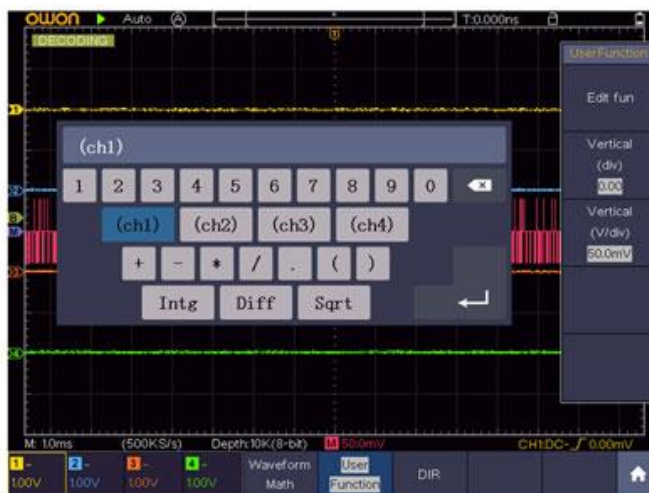
Multiple trigger and bus decoding function

M Single
Edge
Video
Pulse
Slope
Runt
Windows
Timeout
Nth Edge

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

M Bus Type
UART
I2C
SPI
CAN

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 Micro USB Cable | 5 Probe x 4 |
| 6 BNC-SAM | 7 Probe Adjust | 8 Stand Holder | 9 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	TAO3074	TAO3104	TAO3074A	TAO3104A
Bandwidth	70MHz	100MHz	70MHz	100MHz
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	4			
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;			
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, I2C, SPI, UART(RS232), and CAN (optional)			
Bus Decoding(optional)	I2C, SPI, UART(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→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, USB port for PictBridge,LAN, and WIFI (optional)			
Frequency Counter	available			
Battery	7.4V, 8000mAh, 5 hours operation			
Dimension(WxHxD)	270x191x48			
Device Weight	About 1.7kg			
Support				
 APP for TAO3000 series digital oscilloscope				

- ▶ [PC software for OWON TAO3000 Series digital oscilloscope](#)
- ▶ [User Manual for TAO3000 Series 4CH Oscilloscopes](#)
- ▶ [Quick Guide for TAO3000 Series 4CH Oscilloscopes](#)