

2CH / 4CH Tablet Digital Storage Oscilloscope

- TAO3000 Series



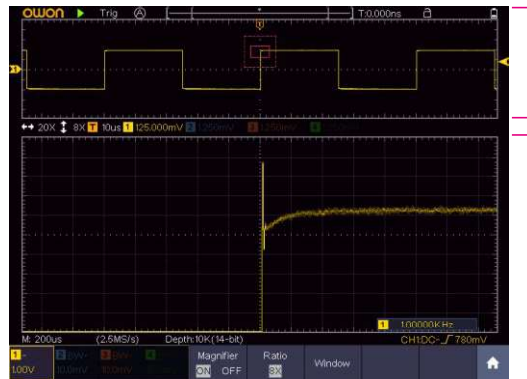
- + Oscilloscope + Multimeter(2CH type)
- + Max 120MHz Bandwidth, 1GS/s sample rate
- + 14-bit high resolution ADC
- + 40M record length; 45,000 wfms/s waveform refresh rate
- + low background noise
- + 8-inch 800 x 600 high resolution LCD, multi-touch screen, more user-friendly operation experience
- + SCPI and LabVIEW supported
- + multi-trigger, and bus decoding function
- + multi-interface integration - USB host, USB device, LAN, Wi-Fi (optional)

14-bit hardware ADC, high measurement accuracy

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.



Magnifier view of 8 bits sampling



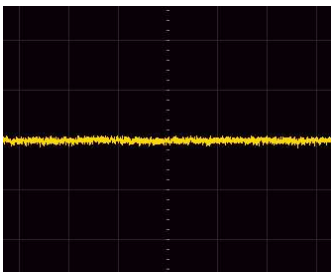
Magnifier view of 14 bits sampling

Original view

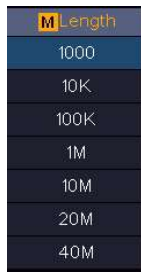
Magnifier view

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

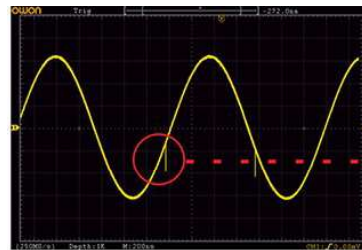
Low background noise allows the oscilloscope to have better small signal measurement capabilities. High storage allows the oscilloscope to acquire longer signals. High refresh rate allows the oscilloscope to capture waveform details and exceptional events.



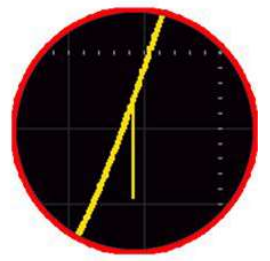
Low background noise



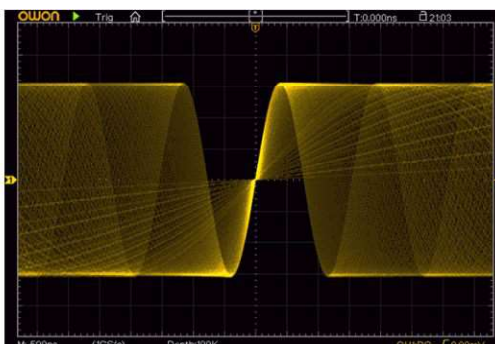
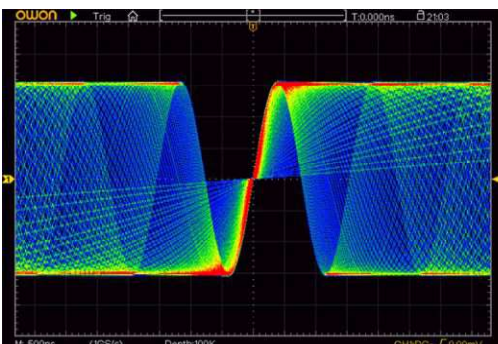
40M record length



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



Multi-level grayscale, and color temperature display



Multiple trigger and bus decoding function

M Bus Type
RS232
I2C
SPI
CAN

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

M Single
Edge
Video
Pulse
Slope
Runt
Windows
Timeout
Nth Edge

Support multiple trigger modes, including Edge, Video, Pulse, Slope, Runt, Windows, Timeout, I2C, SPI, RS232/UART, CAN, and Nth Edge.

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

Model	TAO3072	TAO3102	TAO3122	TAO3072A	TAO3102A	TAO3122A
Bandwidth	70MHz	100MHz	120MHz	70MHz	100MHz	120MHz
Sample Rate	1GS/s					
Vertical Resolution (A/D)	8 bits			8 bits/12 bits/14 bits		
Record length	40M					
Waveform Refresh Rate	45,000 wfms/s					
Horizontal Scale (s/div))	2ns/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;					
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5					
Sample Rate / Relay Time Accuracy	±10 ppm max (Ta = +25°C)					
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 ² C, SPI, RS232/UART, and CAN (optional)					
Bus Decoding(optional)	I ² 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, Trig Out(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	Approx. 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: 10.00A ACA: 10.00A	200.00Ω - 100.00MΩ	√	√

Specifications subject to change without prior notice.

+ Accessories The accessories subject to final delivery.


Power Cord



Adapter



Probe



CD Rom



Quick Guide



Micro USB Cable



Probe Adjust



Stand Holder



BNC-SAM



Multimeter Lead



Current Ext Module



Bag (optional)

Model	TAO3074	TAO3104	TAO3074A	TAO3104A
Bandwidth	70MHz	100MHz	70MHz	100MHz
Sample Rate	1GS/s			
Vertical Resolution (A/D))	8 bits		8 bits/12 bits/14 bits	
Record length	40M			
Waveform Refresh Rate	45,000 wfms/s			
Horizontal Scale (s/div))	2ns/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			
Sample Rate / Relay Time Accuracy	±10 ppm max (Ta = +25°C)			
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 ² C, SPI, RS232/UART, and CAN (optional)			
Bus Decoding(optional)	I ² 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			
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Bag (optional)