TAO3000 Series 4CH Oscilloscopes Technical Specifications

Model	Vertical Resolution (A/D)	Bandwidth	Rise Time	Horizontal Scale
TAO3074	8 bits	70 MHz	≤ 5.0ns	2ns/div-1000s/div, step by 1 – 2 - 5
TAO3074A	8 bits/12 bits/14 bits			
TAO3104	8 bits	100 MHz	≤ 3.5 ns	
TAO3104A	8 bits/12 bits/14 bits			

Performance Characteristics	Instruction			
Sample rate (real time)	TAO3074 TAO3104	Four CH		250 MSa/s
		Dual CH		500 MSa/s
		Single CH		1 GSa/s
	TAO3074A TAO3104A	8 bits mode	Four CH	250 MSa/s
			Dual CH	500 MSa/s
			Single CH	1 GSa/s
		12 bits mode	Four CH	125 MSa/s
			Dual CH	250 MSa/s
			Single CH	500 MSa/s
		14 bits mode	Four CH	100 MSa/s
			Dual CH	100 MSa/s
			Single CH	100 MSa/s
Waveform capture rate	TAO3074 TAO3074A TAO3104 TAO3104A	45,000 wfms/s		
Display	8" color LCD, TFT display , 800×600 pixels			
Channel	4			
Max record length	When four channels are turned on, the max record length is 10M; and max 20M for two channels; max 40M for one channel.			
Sampling rate / relay time accuracy	±10 ppm max (Ta = +25℃)			
Input coupling	DC, AC, Ground			
Input impedance	1MΩ±2%，in parallel with 15pF±5pF			
Max input voltage	400 V (DC + AC Peak)			
DC gain accuracy	TAO3074 TAO3104	1 mV		±4%
		≥ 2 mV		±3%
	TAO3074A TAO3104A	8 bits mode	1 mV	±4%
			≥ 2 mV	±3%
		12 bits mode 14 bits mode	1 mV	±3%
			≥ 2 mV	±2%
Vertical sensitivity	1 mV/div - 10 V/div			
Trigger type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I2C, SPI, UART, CAN (optional)			
Decoding Type (optional)	UART, I2C, SPI, CAN			
Trigger mode	Auto, Normal, Single			

Line/field frequency (Video)	Support standard NTSC, PAL and SECAM
Automatic measurement	Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +Pulse Width, -Pulse Width, +Duty Cycle, -Duty Cycle, FRR,FRF,FFR,FFF,LRR,LRF,LFR,LFF,Delay A→B ⏋, Delay A→B ⏌, Cycle RMS, Cursor RMS, Screen Duty, Phase A→B ⏋, Phase A→B ⏌, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count, Area, and Cycle Area.
Waveform math	＋, －, *, / ,FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)
Waveform storage	100 waveforms
Communication interface	USB host, USB device, Trig Out (Pass/Fail), LAN
Printer compatibility	PictBridge
Power supply	100V - 240 VACRMS, 50/60 Hz, CAT Ⅱ
Fuse	2 A, T class, 250 V
Battery	7.4V, 8000mAh
Touch screen	Multi-touch capacitive touch screen

*Max Sample rate (real time) for Dual CH should meet either following condition:

- CH1&CH2 on, CH3&CH4 off;
- CH1&CH2 off, CH3&CH4 on.

Mechanical Specifications

Dimension	270 mm × 191 mm × 48 mm (L*H*W)
Weight	Approx. 1.7 kg (without accessories)

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