

TOUCH TDS Series Touch Screen Digital Storage Oscilloscope



- + Max 200MHz bandwidth, up to 2GS/s realtime sample rate
- + 7.6M record length
- + 50,000 wfms/s waveform capture rate
- + waveform zooming (horizontal / vertical), and saving
- + FFT points (length, and resolution variable)
- + multi-window extension
- + 8 inch 800 x 600 pixels high resolution LCD
- + multi- communication interface : USB, VGA, and LAN
- + SCPI, and LabVIEW supported

+ Performance Specifications

Model	TDS7074	TDS7104	TDS8104	TDS8204
Bandwidth	70MHz		100MHz	200MHz
Channel	4			
Sample Rate	1GS/s		2GS/s	
Waveform Capture Rate	50,000 wfms/s			
Display	8" color LCD			
Input Coupling	DC, AC, and GND			
Input Impedance	1MΩ ± 2%, in parallel with 10pF ± 5pF ; 50Ω ± 1%			
Probe Attenuation Factor	1X, 10X, 100X, 1000X			
Max Input Voltage	1MΩ input impedance : 400V (PK - PK) (DC + AC, PK - PK) ; 50Ω input impedance : 5V (PK - PK) (DC + AC, PK - PK)			
Channel Isolation	50Hz : 100 : 1 ; 10MHz : 40 : 1			
Interpolation	sin(x)/x			
Record Length	7.6M			
Horizontal Scale (s/div)	2ns/div - 100s/div, step by 1 - 2 - 5			
Interval (ΔT) Accuracy (full bandwidth)	Single : ±(1 interval time + 100ppm × reading + 0.6ns), Average>16 : ±(1 interval time + 100ppm × reading + 0.4ns)			
Vertical Resolution (A/D)	8 bits (4 channels simultaneously)			
Vertical Sensitivity	2mV/div - 10V/div (at input)			
Analog Bandwidth	70MHz		100MHz	200MHz
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)			
Rise Time	≤5ns		≤3.5ns	≤1.7ns

Model	TDS7074	TDS7104	TDS8104	TDS8204
DC Accuracy	±3%			
Trigger Type	Edge, Pulse, Video, and Slope			
Trigger Mode	Auto, Normal, and Single			
Trigger Level Range	±6 division from the screen center			
Trigger Level Accuracy (typical)	±0.3 division			
Line / Field Frequency (video)	NTSC, PAL, and SECAM standard			
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty			
Waveform Math	+, -, *, /, FFT			
Waveform Storage	4 reference waveforms			
Lissajous Figure	Bandwidth	full Bandwidth		
	Phase Difference	±3 degrees		
Cursor Measurement	ΔV, and ΔT between cursors			
Communication Port	USB host, USB device, VGA (optional), and LAN			
Power Supply	100 - 240 V AC, 50/60Hz, CAT II			
Dimension (W x H x D)	380 x 180 x 115 (mm)			
Device Weight	1.50 kg			

Specifications subject to change without prior notice.

+ Application

- electronic circuit debugging
- education and training
- circuit testing
- automobile maintenance and testing
- design and manufacture

+ Accessories

The accessories subject to final delivery.

