

**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
- + user-friendly voice warning
- + 8 inch 800 x 600 pixels high def LCD
- + multi- communication interface : USB, VGA, and LAN

**+ Performance Specifications**

Model	TDS7104	TDS8104	TDS8204
Bandwidth	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	100MHz	200MHz	
LF Respond (AC, -3dB)	≥5Hz (at input, AC coupling, -3dB)		
Rise Time	≤3.5ns	≤1.7ns	

Model	TDS7104	TDS8104	TDS8204
DC Accuracy	±3%		
Trigger Type	Edge, Pulse, Video, Slope		
Trigger Mode	Auto, Normal, 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, LAN		
Power Supply	100 - 240 V AC, 50/60Hz, CAT II		
Dimension (W×H×D)	380 × 180 × 115 (mm)		
Weight (without package)	1.50 kg		

Specifications subject to change without prior notice.

**+ Application**

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

**+ Accessories**

The accessories subject to final delivery.

