



XDS3000-E Series 4CH DSO



- + 60MHz / 100MHz Bandwidth , 1GS/s sample rate
- + 8-bit, 12-bit or 14-bit high resolution ADC
- + 40M record length 45,000 wfms/s waveform refresh rate
- + low back ground noise
- + 8 inch 800 x 600 high resolution LCD, optional 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, USB port for PictBridge, LAN, AUX, and VGA

+ Performance Specifications

Model	XDS3064E	XDS3104E	XDS3104AE
Bandwidth	60MHz		100MHz
Sample Rate		1GS/s	
Vertical Resolution (A/D)		8 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	
Rise Time (at input, typical)	≤5.8ns		≤3.5ns
Channel		4	
Display		8" color LCD, 800 x 600 pixels display	
Input Impedance		1MΩ ± 2%, in parallel with 15pF ± 5pF	
Channel Isolation		50Hz : 100 : 1, 10MHz : 40 : 1	
Max Input Voltage		1MΩ ≤ 300Vrms;	
DC Gain Accuracy		±3%	
DC Accuracy		average ≥ 16 : ± (3% + 0.05div) for ΔV	
Probe Attenuation Factor		0.001X - 1000X, step by 1 - 2 - 5	
LF Respond (AC, -3dB)		≥5Hz	
Sample Rate / Relay Time Accuracy		±1ppm	
Interpolation		(sinx) / x , x	
Interval (ΔT) Accuracy (full bandwidth)		Single: ±(1 interval time + 1ppm x reading + 0.6ns); Average > 16: ±(1 interval time + 1ppm x reading + 0.4ns)	
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, and CAN (optional)	
Bus Decoding		I ² C, SPI, RS232, CAN	
Trigger Mode		Auto, Normal, and Single	
Vertical Range		±2V(1mV/div ~ 50mV/div) ; ±20V(100mV/div ~ 1V/div) ; ±200V(2V/div ~ 10V/div)	

Line / Field Frequency (video)	NTSC, PAL and SECAM standard	
Cursor Measurement	ΔV, and ΔT between cursors, ΔV and ΔT between cursors, and auto- cursors	
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Week RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase, 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	
Waveform Storage	100 waveforms	
Lissajou's Figure	full bandwidth	Full bandwidth
	±3 degrees	±3 degrees
Communication Interface	USB host, USB device, USB port for PictBridge, Trig Out (P/F), LAN, and VGA (optional)	
Frequency Counter	available	
Power Supply	100V - 240V AC, 50/60Hz, CAT II	
Fuse	2A, T class, 250V	
Battery (optional)	3.7V, 13200mA	
Dimension (W x H x D)	340mmx177mmx90mm	

Multimeter (optional) Specifications

Full Scale Reading	3¾ digits (max 4000 count)	Diode	0V -1.5V
Input Impedance	10MΩ	Continuity Test	<50 (±30) beeping
Capacitance	51.2nF - 100uF: ±(3% ± 3 digits)		
Voltage	DCV: 400mV, 4V, 400V: ±(1 ± 1 digit); max input: DC 1000V ACV: 4V, 40V, 400V: ±(1 ± 3 digits); frequency: 40Hz - 400Hz; max input: AC 750V (virtual value)		
Current	DCA: 40mA, 400mA: ±(1.5% ± 1 digit); 10A: ±(3% ± 3 digits) ACA: 40mA: ±(1.5% ± 3 digits), 400mA: ±(2% ± 1 digit), 10A: ±(3% ± 3 digits)		
Impedance	400Ω: ±(1% ± 3 digits), 4KΩ - 40MΩ: ±(1% ± 1 digit)		

Arb Waveform Generator (optional) Specifications

Max Frequency Output	25MHz
Sample Rate	125MS/s
Channel	2 channel (only apply to XDS3064E, XDS3104E)
Vertical Resolution	14 bits
Amplitude Range	2mVpp - 6Vpp
Waveform Length	8K
Standard Waveform	Sine, Square, Pulse, Ramp
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, Noise, and others, total 46 built-in waveforms, and user-defined arbitrary waveform

Optional Module / Function

VGA	VGA+AV port
WIF	Wifi
AWG	arb waveform generator
DMM	digital multimeter
MTS	Touch screen(capacitor-type)

RS232	RS232
SPI	SPI
I ² C	I ² C
CAN	CAN

Specifications subject to change without prior notice

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