



## 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 <sup>2</sup> C, SPI, RS232, and CAN (optional)		
Bus Decoding	I <sup>2</sup> 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 <sup>2</sup> C	I <sup>2</sup> C
CAN	CAN

Specifications subject to change without prior notice

