

XDS3204E n-in-1 digital oscilloscope

(your powerful on-site measurement station)



Super Performance

- + 40M record length, and 70,000 wfms/s waveform refresh rate
- + low background noise, vertical sensitivity in 1 mV/div - 10 V/div
- + multi-trigger, and bus decoding function
- + SCPI, and LabVIEW supported

Creative New Look

- + ultra-thin body-design, less space accommodation
- + multi-interface integration -
 - USB host, USB device, USB port for PictBridge, LAN, AUX, and more
- + VGA port - better solution for video expansion, and teaching demonstration

+ Performance Specifications

Model	XDS3204E
Bandwidth	200MHz
Sample Rate	1GS/s
Vertical Resolution (A/D)	8bits
Record length	40M
Waveform Refresh Rate	70,000 wfms/s
Horizontal Scale (s/div)	1ns/div - 1000s/div, step by 1 - 2 - 5
Rise Time (at input, typical)	≤1.7ns
Channel	2 + 1 (external)
Display	8" Multi-touch Screen, 800 x 600 pixels
Input Impedance	1MΩ ± 2%, in parallel with 15pF ± 5pF
Channel Isolation	50Hz : 100 : 1, 10MHz : 40 : 1
Max Input Voltage	1MΩ ≤ 300Vrms; 50Ω ≤ 5Vrms
DC Gain Accuracy	±3%
DC Accuracy	average ≥ 16 : ±(3% reading + 0.05 div) for ΔV
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)
Sample Rate / Relay Time Accuracy	±2.5ppm
Interpolation	sin(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, and 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, and CAN

Trigger Mode	Auto, Normal, and Single	
Vertical Range	$\pm 2V$ (1mv/div - 50mv/div), $\pm 20V$ (100mv/div - 1V/div), $\pm 200V$ (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, Peak 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 Edge Count	
Waveform Math	+, -, *, /, FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)	
Waveform Storage	100 waveforms	
Lissajou's Figure	Bandwidth	full bandwidth
	Phase Difference	± 3 degrees
Communication Interface	USB Host, USB Device, Trig Out (Pass/Fail), LAN port, VGA port (optional)	
Frequency Counter	available	
Power Supply	100V - 240V AC, 50/60Hz, CAT II	
Power Consumption	< 15W	
Fuse	2A, T class, 250V	
Battery (optional)	3.7V, 13200mAh	
Dimension (W x H x D)	340 x 177 x 90 mm	
Weight	2.60 kg	

+ Multimeter (optional) Specifications

Full Scale Reading	3¾ digits (max 4000 count)	Diode	0V -1.5V
Input Impedance	10M Ω	Continuity Test	<50 (± 30) beeping
Capacitance	51.2nF - 100uF: $\pm(3\% \pm 3$ digits)		
Voltage	VDC: 400mV, 4V, 400V: $\pm(1 \pm 1$ digit); max input: DC 1000V VAC: 4V, 40V, 400V: $\pm(1 \pm 3$ digits); frequency: 40Hz - 400Hz; max input: AC 400V (virtual value)		
Current	DC: 40mA, 400mA: $\pm(1.5\% \pm 1$ digit); 10A: $\pm(3\% \pm 3$ digits) AC: 40mA: $\pm(1.5\% \pm 3$ digits), 400mA: $\pm(2\% \pm 1$ digit), 10A: $\pm(3\% \pm 3$ digits)		
Impedance	400 Ω : $\pm(1\% \pm 3$ digits), 4K Ω - 40M Ω : $\pm(1\% \pm 1$ digit)		

+ Arb Waveform Generator (optional) Specifications

Max Frequency Output	25MHz
Sample Rate	125MS/s
Channel	1-ch
Vertical Resolution	14 bits
Amplitude Range	2mVpp - 6Vpp
Waveform Length	8K
Standard Waveform	Sine, Square, Pulse, Ramp

+ Optional Module / Function

VGA	VGA
WIFI	WiFi
AWG	arb waveform generator
DMM	digital multimeter

Specifications subject to change without prior notice.

+ Application

electronic circuit debugging
education and training

circuit testing

design and manufacture

automobile maintenance and testing

+ Accessories

The accessories subject to final delivery.



Power Cord



CD Rom



Manual



USB



Probe



Probe Adjust



mobile app accessible via scanning QR code

optional accessories:



Multimeter
Lead



Q9



Capacitance
Ext Module



Battery



Soft Bag