

OSCILLOSCOPE OWON XDS3202 E

owon[®]

XDS Series your powerful n-in-1 on-site measurement station



12 bits
high resolution ADC



Super Performance

- + 8-bit, or 12-bit high resolution ADC, restoring the waveform detail fully
- + 40M record length, and 75,000 wfms/s waveform refresh rate
- + low background noise, vertical sensitivity in 1 mV/div - 10 V/div
- + multi- trigger, and bus decoding function
- + SCPI supported

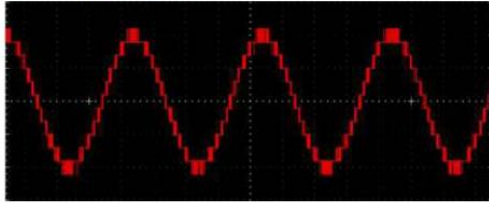
Creative New Look

- + ultra-thin body-design, less space accommodation
- + multi-interface integration - USB host, USB device, LAN, AUX, and infrared controller
- + VGA port - better solution for video expansion, and teaching demonstration
- + 8 inch 800 x 600 high resolution LCD
- + optional multi-touch screen, more user-friendly operation experience

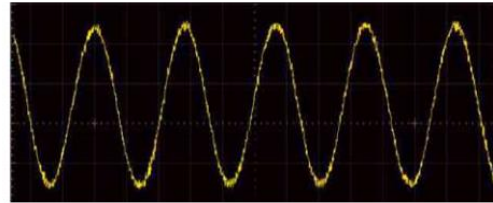
n-in-1

functions as data logger, and multimeter with data logging function,
and dual-channel 25MHz / 50MHz arbitrary waveform generator,
furthermore, battery pack, and WiFi module supported

1. 12-bit high vertical resolution model - XDS-A series product achieves 16 times resolution, and definition more than its general 8-bit counterpart, which makes it the better solution provider for small signal measurement, and signal detail restoration from large signal

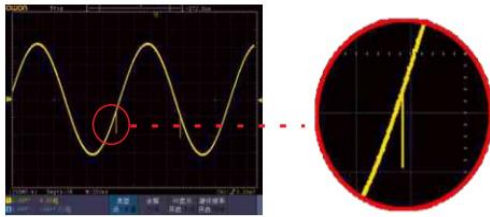


20mVpp signal measured by common 8-bit DSO, 10 times zoomed



20mVpp signal measured by 12-bit XDS series DSO, 10 times zoomed

2. industry leading waveform refresh rate level of 75,000 wfms/s, easily covering exceptional, and low probability event



3. multi-trigger supported - Logic, Timeout, I2C, SPI, RS232, Runt, Windows, Nth Edge, CAN

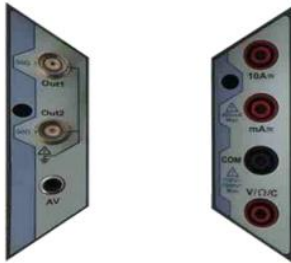
4. serial bus coding available in I2C, SPI, RS232, CAN

M Bus Type
RS232
I2C
SPI
CAN

M TrigMode
Edge
Video
Pulse
Slope
Runt
Nth Edge
Windows
Logic

5. built-in multimeter module, with auto-scale, data logging function

6. built-in dual-channel 25MHz / 50MHz arbitrary waveform generator module, with sample rate of 125MS/s / 250MS/s

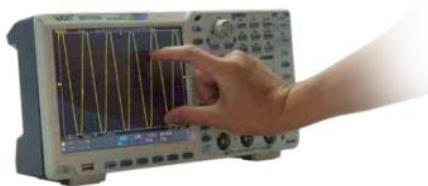


7. its built-in WiFi module facilitates mobile device connecting with XDS series product, to get access to remote control, together with simultaneous measurement result display.

Via app s/w, waveform data-saving, checking, co-sharing is possible, co-analyzing hence realizes



8. IPS screen exports lively waveform detail, and its multipoint touch function improves operation efficiency considerably



9. optional battery makes floating measurement possible, advancing the operation convenience



Meet your best need

+ 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% ± 3digits)		
Voltage	VDC: 400mV, 4V, 400V: ±(1 ± 1 digit); max input: DC 1000V VAC: 4V, 40V, 400V: ±(1 ± 3 digits); frequency: 40Hz - 400Hz; max input: AC 400V (virtual value)		
Current	DC: 40mA, 400mA: ±(1.5% ± 1 digit); 10A: ±(3% ± 3 digits) AC: 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	50MHz*
Sample Rate	125MS/s	250MS/s
Channel	available in 1-ch, or 2-ch	
Vertical Resolution	14 bits	
Amplitude Range	10mVpp - 6Vpp	
Waveform Length	8K	
Standard Waveform	Sine, Square, Pulse, and Ramp	

+ Optional Module / Function

VGA	VGA
WIFI	WiFi
AWG	arb waveform generator
DMM	digital multimeter
MTS	multi-point touch screen (capacitor-type)

+ Optional Decoding Kit

RS232	RS232
SPI	SPI
I2C	I ² C
CAN	CAN trigger / decoding

* only available for XDS3102, XDS3202, and XDS3302

Specifications subject to change without prior notice.

+ Performance Specifications

Model		XDS3102A	XDS3102	XDS3202A	XDS3202	XDS3302A	XDS3302
Bandwidth		100MHz		200MHz		300MHz	
Sample Rate		1GS/s		2GS/s		3.2GS/s	
Vertical Resolution (A/D)		12 bits	8 bits	12 bits	8 bits	12 bits	8 bits
Record Length		40M					
Waveform Refresh Rate		75,000 wfms/s					
Horizontal Scale (s/div)		2ns/div - 1000s/div, step by 1 - 2 - 5		1ns/div - 1000s/div, step by 1 - 2 - 5			
Rise Time (at input, typical)		≤3.5ns		≤1.7ns		≤1.17ns	
Channel		2+1 (external)					
Display		8" color LCD, 800 x 600 pixels (optional 1024 x 768 pixels IPS display available)					
Input Impedance		1MΩ ± 2 %, in parallel with 15pF ± 5pF		1MΩ ± 2 %, in parallel with 15pF ± 5pF; 50Ω ± 2%			
Channel Isolation		50Hz : 100 : 1, 10MHz : 40 : 1					
Max Input Voltage		1MΩ ≤ 300Vrms; 50Ω ≤ 5Vrms					
DC Gain Accuracy		±1%	±3%	±1%	±3%	±1%	±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)		≥5Hz (at input, AC coupling, -3dB)					
Sample Rate / Relay Time Accuracy		±1ppm					
Interpolation		sin(x)/x					
Interval (ΔT) Accuracy (fullbandwidth)		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, NthEdge, Logic, I²C, SPI, RS232, and CAN (optional)					
Bus Decoding		I²C, SPI, RS232, and CAN (optional)					
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					
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					
Waveform Storage		100 waveforms					
Lissajou's Figure	Bandwidth	full bandwidth					
	Phase Difference	±3 degrees					
Communication Interface		USB host, USB device, Pass / Fail, LAN, and VGA (optional)					
Frequency Counter		available					
Power Supply		100 - 240 V AC, 50/60Hz, CAT II					
Power Consumption		< 15W					
Fuse		2A, T class, 250V					
Battery (optional)		3.7V, 13200mA					
Dimension (W x H x D)		340 x 177 x 90 (mm)					
Weight		2.6 kg					