XDS Series n-in-1 digital oscilloscope

your powerful on-site measurement station)

14 bits

high resolution ADC

CE

Super Performance

+ 8-bit, 12-bit or 14-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, and LabVIEW supported

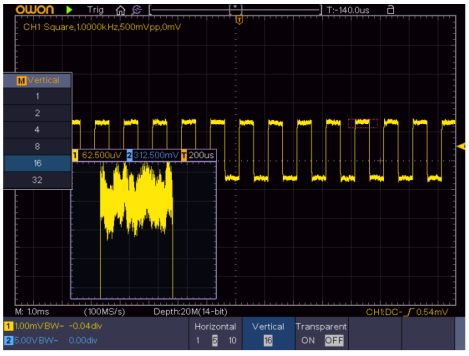
Creative New Look

+ 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
+ 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

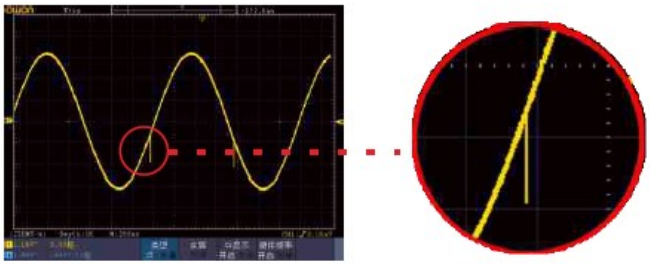
1. XDS series introduce 12 / 14 bits hardware ADC, the precision is 16/64 times against other oscilloscope on market. Equipping with OWON’ s original magnifier function, it can observe the signal low down to 31.25μV/div.

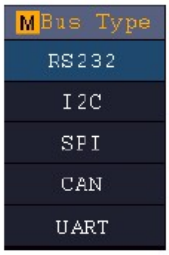


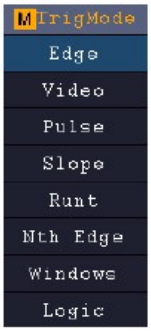
Fujian Lilliput Optoelectronics Technology Co., Ltd

Web: www.owon.com.cn / www.owontme.com E-mail: info@owon.com.cn Facebook: fb.me/owontech

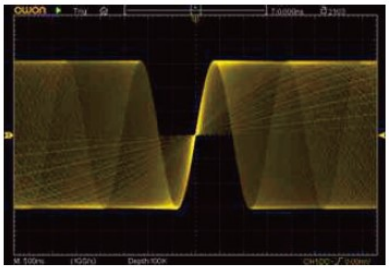
2. Xvisual platform - restore the waveform detail fully



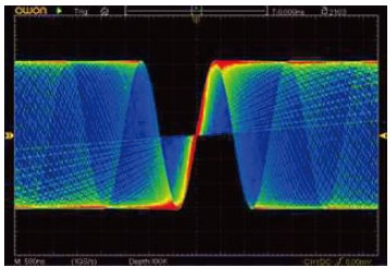




3. multi-level grayscale, and color temperature display



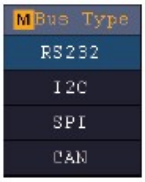
within certain unit time,
more frequent one waveform pixel appears, more vivid it is



the frequency of waveform reflecting in color temperature value,
larger the value is, more frequent the waveform appears

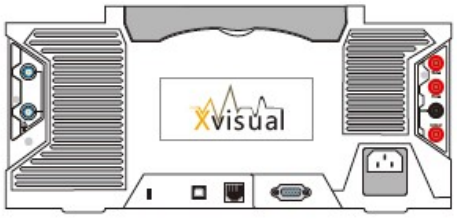
4. multi-trigger supported - Logic, Time-out, I²C, SPI, RS232, Runt, Windows, Nth Edge, and CAN

5. serial bus coding available in I2C, SPI, RS232, and CAN



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

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



8. its built-in WiFi module facilitates mobile device connecting with XDS seris 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

9. Its multi-point touch function improves operation efficiency considerably

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

+ Performance Specifications

Model	XDS3062A	XDS3102A	XDS3202A**	XDS3102	XDS3202E	XDS3202*	XDS3302*
Bandwidth	60MHz	100MHz	200MHz	100MHz	200MHz		300MHz
Sample Rate	1GS/s (8 bits) 500MS/s (12 bits) (** 100MS/s (14 bits))			1GS/s		2GS/s	2.5GS/s
Vertical Resolution (A/D)	12 bits		14 bits	8bits			
Record length	40M						
Waveform Refresh Rate	75,000 wfms/s						
Horizontal Scale (s/div)	2ns/div - 1000		1ns/div - 1000	2ns/div - 1000	1ns/div - 1000		
	step by 1 - 2 - 5						
Rise Time (at input, typical)	≤5.8ns	≤3.5ns	≤1.7ns	≤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)						
Input Impedance	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	±1.5%			±3%			
DC Accuracy	average≥16: ±(3% reading + 0.05 div) for △V						
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	±1ppm						
Interpolation	sin(x) / x						
Interval (△T) 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^2C, SPI, RS232, and CAN (optional)						
Bus Decoding	I^2C, 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	△V, and △T between cursors, △V and △T 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 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						
Lissajou's Figure — Phase Difference	±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						
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±200g

+ 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	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
Sample Rate	125MS/s
Channel	available in 1-ch, or 2-ch
Vertical Resolution	14 bits
Amplitude Range	2mVpp - 6Vpp
Waveform Length	8K
Standard Waveform	Sine, Square, Pulse, Ramp

+ Optional Module / Function

VGA	VGA+AV
WIF	WiFi
AWG	arb waveform generator
DMM	digital multimeter
TOU	Touch screen(capacitor-type)

+ Optional Decoding Kit

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

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.


Power Cord


CD Rom

Manual


USB


Probe


Probe Adjust

optional accessories:


Multimeter Lead


Q9


Capacitance Ext Module


Battery


Soft Bag

mobile app accessible via scanning QR code

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