owon® | SmartTest
Meet your best need

BATTERY

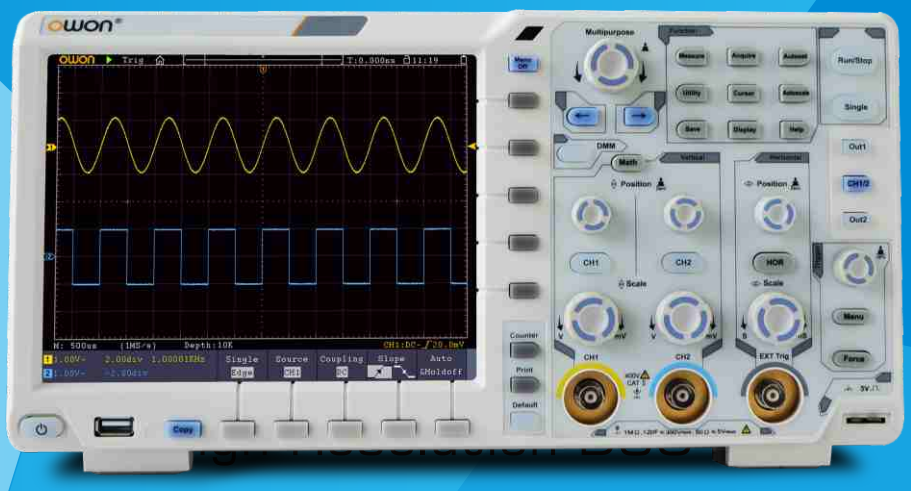
9.5 COUNTER

12 bits VERTICAL RESOLUTION

XDS series
n-in-1 DSO

DEEP MEMORY 40M

75,000 wfms/s



TOUCH

GENERATOR

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

OSCILLOSCOPE

N-in-1

WiFi

DATA LOGGER

MULTIMETER

Xvisual - The 3G Oscilloscope Technology Platform from Lilliput (OWON)

- low background noise
- 40M record length
- 75,000 wfms/s refresh rate

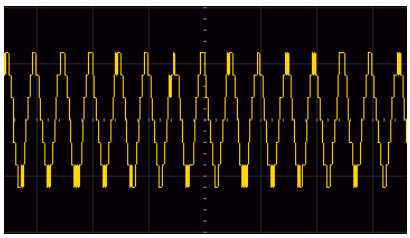
n-in-1 on-site measurement station

- super-portable body design (body thickness - 9 cm)
- functioning as n-in-1 - frequency counter, data logger, multimeter, waveform generator, oscilloscope, and more
- battery supported

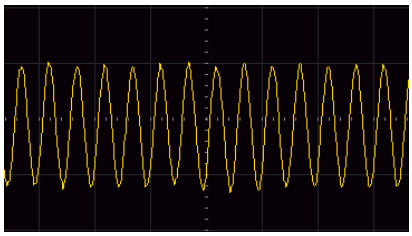
Creative Features

- WiFi module integrated, app s/w supported
- multi- trigger, and bus decoding function
- multi-interface integration - USB host, USB device, LAN, AUX, and infrared controller
- 8 inch 800 x 600 pixels high resolution LCD
- optional multi-touch screen

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

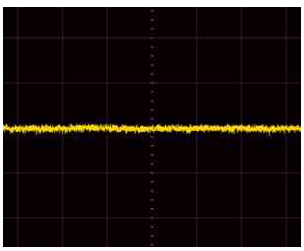


20mVpp signal measured by common 8-bit DSO, 10 times zoomed

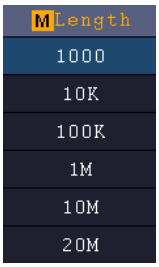


20mVpp signal measured by 12-bit XDS series DSO, 10 times zoomed

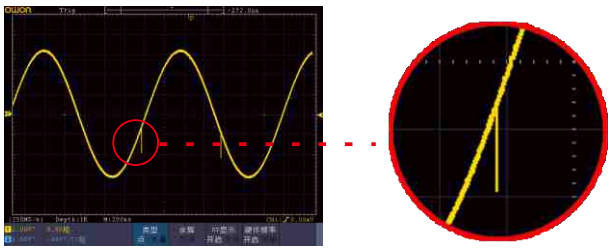
2. Xvisual platform - restore the waveform detail fully



low background noise



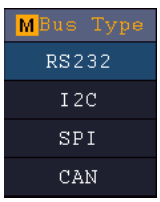
40M record length

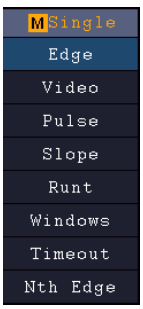


and 75,000 wfms/s refresh rate, easily capturing exceptional, and low probability events

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

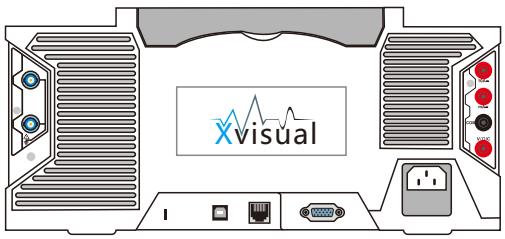
4. serial bus coding available in I2C, SPI, RS232, and CAN



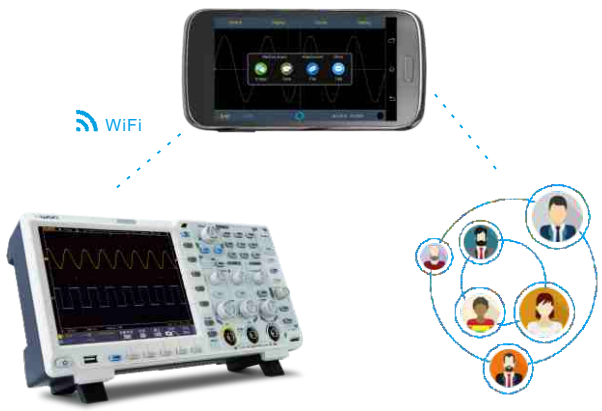


5. built-in multimeter module, with auto-scale, and data logging function

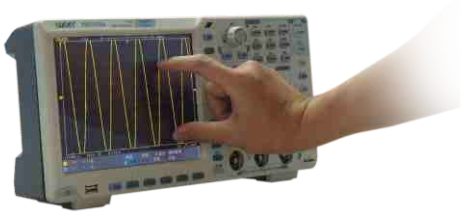
6. built-in dual-channel 25MHz / 50MHz arbitrary waveform generator module, with sample rate of 125MS/s / 250MS/s



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



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



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

+ Performance Specifications

Model	XDS3102A	XDS3102	XDS3202A	XDS3202
Bandwidth	100MHz		200MHz	
Sample Rate	1GS/s		2GS/s	
Vertical Resolution (A/D)	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	
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%
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)	≥5Hz (at input, AC coupling, -3dB)			
Sample Rate / Relay Time Accuracy	±1ppm			
Interpolation	sin(x)/x			
Interval (△T) 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, 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, auto-cursor			
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			
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	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			

+ 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	
Built-in Waveforms	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, and others, total 46 built-in waveforms	

+ Optional Module / Function

VGA	VGA,and 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

* only available for XDS3102, and XDS3202

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 Cable


Probe


Probe Adjust

optional accessories:


Multimeter Lead


Q9


Capacitance Ext Module


Battery


Soft Bag

mobile app accessible via scanning QR code