

XDS3102

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



Super Performance

- + 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

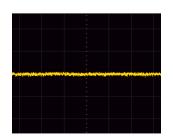
Creative New Look

- + 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-point touch screen, more user-friendly operation experience

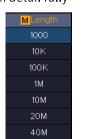
n-in-1

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

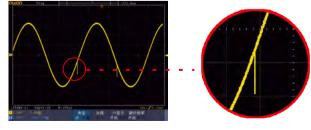
1. Wisual platform - restore the waveform detail fully



low background noise

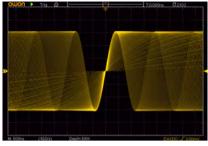


40M record length



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

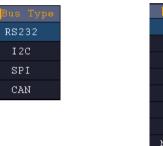


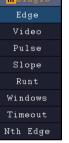


within certain unit time, more frequent one waveform pixel appears, more vivid it is

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

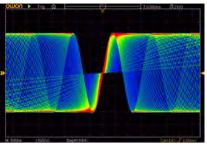




8. its built-in WiFi module facilitates mobile device connecting with XDS series product, to get access to remote control, together with simultaneous measurement result display

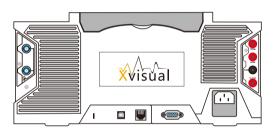


via app s/w, waveform data-saving, checking, co-sharing is possible, co-analyzing hence realizes



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

- 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



9. its multi-point touchscreen improves operation efficiency considerably



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



WOU

XDS3102 your powerful n-in-1 on-site measurement station

+ Performance Specifications

| Model | | XDS3102 | | |
|---|---------------------|--|--|--|
| Bar | ndwidth | 100MHz | | |
| Sam | ple Rate | 1GS/s | | |
| Vertical Resolution (A/D) | | 8 bits | | |
| Recor | rd Length | 40M | | |
| Waveform | Refresh Rate | 75,000 wfms/s | | |
| Horizo | ntal Scale | 2ns/div - 1000s/div,step by 1 - 2 - 5 | | |
| Rise Time (a | at input, typical) | ≤3.5ns | | |
| Ch | nannel | 2+1 (external) | | |
| Di | isplay | 8" color LCD, 800 x 600 pixels | | |
| Input Ir | mpedance | $1M\Omega \pm 2$ %, in parallel with 15pF \pm 5pF | | |
| Channe | el Isolation | 50Hz : 100 : 1, 10MHz : 40 : 1 | | |
| Max Inp | out Voltage | $1M\Omega \le 300Vrms; 50\Omega \le 5Vrms$ | | |
| DC Gai | n Accuracy | ±3% | | |
| DC A | Accuracy | average ≥ 16: ±(3% reading + 0.05 div) for $\triangle V$ | | |
| Probe Atter | nuation Factor | 0.001X - 1000X, step by 1 - 2 - 5 | | |
| LF Respo | nd (AC,-3dB) | ≥10Hz (at input, AC coupling, -3dB) | | |
| Sample Rate / Relay Time | | ±1ppm | | |
| Interpolation | | sin(x)/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 ² C, SPI, RS232, and CAN (optional) | | |
| Bus Decoding (optional) | | I ² C, SPI, RS232, and CAN | | |
| Trigger Mode | | Auto, Normal, and Single | | |
| Vertical Range | | ±2V (1mv/div - 50mv/div), ±20V (100mv/div - 1V/div), ±200V (2V/div - 10V/div) | | |
| | requency (video) | NTSC, PAL and SECAM standard | | |
| | leasurement | riangleV, and $	riangle$ T between cursors, $	riangle$ V and $	riangle$ 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↓, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count | | |
| Wavefo | orm Math | +, -, x, ÷, FFT, FFT rms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, bandreject) | | |
| Wavefo | rm Storage | 100 waveforms | | |
| - | 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) | | |
| Frequen | icy Counter | available | | |
| • | r Supply | 100 - 240 V AC, 50/60Hz, CAT II | | |
| | | <15W | | |
| Power Consumption | | | | |
| Fuse | | 2A, T class, 250V | | |
| Battery (optional) | | 3.7V, 13200mAh | | |
| Dimension (W x H x D) | | 340 x 177 x 90 (mm) | | |
| Device Weight | | 2.60 kg | | |

+ Multimeter (optional) Specifications

| i multimeter (optional) specifications | | | | | | |
|--|---|-----------------|-------------------|--|--|--|
| Full Scale Reading | 3¾ digits (max 4000 count) | Diode | 0V - 1.5V | | | |
| Input Impedance | 10ΜΩ | 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

| And Waveronin 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 | 2mVpp - 6Vpp | | | | |
| Waveform Length | 8К | | | | |
| Standard Waveform | Sine, Square, Pulse, and Ramp | | | | |
| | | | | | |

+ Optional Module / Function

| VGA | VGA + AV port | + Optional Decoding Kit | |
|------|-------------------------------|-------------------------|--------------|
| WIF | WiFi | RS232 | RS232 |
| AWG | arbitrary waveform generator | SPI | SPI |
| DMM | digital multimeter | I2C | l²C |
| TOU* | touch screen (capacitor-type) | CAN | CAN decoding |

* TOU option could be equipped as standard option as per request.

+ Application

electronic circuit debugging education and training

circuit testing design and manufacture automobile maintenance and testing

+ Accessories

The accessories subject to final delivery.











USB Cable

optional accessories:



Multimeter

Lead



Ext Module



Battery

Capacitance

Soft Bag

Q9





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| U | | 3 |

Specifications subject to change without prior notice.









Probe Adjust



