XDS2102A High Resolution Digital Oscilloscope

your powerful on-site measurement station)

12 bits

high resolution ADC

CE

Super Performance

+ 12-bit high resolution ADC, restoring the waveform detail fully
+ 20M record length, and 55,000 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
+ 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

+ Performance Specifications

Model	XDS2102A
Bandwidth	100MHz
Sample Rate	1GS/s (8 bits) 500MS/s (12 bits)
Vertical Resolution (A/D)	12 bits
Record length	20M
Waveform Refresh Rate	55,000 wfms/s
Horizontal Scale (s/div)	2ns/div - 1000s/div, step by 1~2~5
Rise Time (at input, typical)	≤3.5ns
Channel	2 + 1 (external)
Display	8" color LCD, 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
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)

Fujian Lilliput Optoelectronics Technology Co., Ltd

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

Sample Rate / Relay Time Accuracy		±1 ppm (TYP, Ta=+25℃)
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
Bus Decoding		I^2C, 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)
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		50 waveforms
Lissajou's Figure	Bandwidth	full bandwidth
	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
Dimension (W x H x D)		340 x 177 x 90 mm
Weight		2.40 kg

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

Quick Guide


USB


Probe


Probe Adjust

optional accessories


Soft Bag

Fujian Lilliput Optoelectronics Technology Co., Ltd
Web: www.owon.com.cn / www.owontme.com E-mail: info@owon.com.cn Facebook: fb.me/owontech