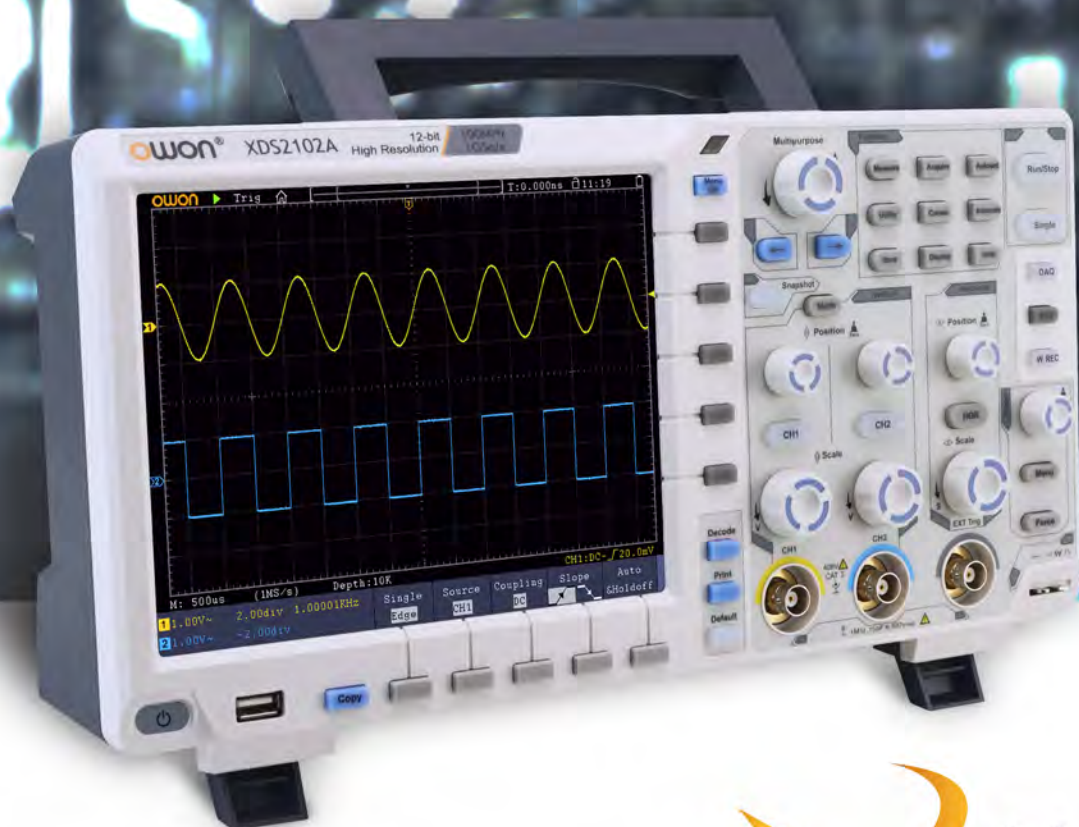




8" 12-bit
high resolution ADC

20M Record Length

55,000 wfms/s
refresh rate

2-CH
bandwidth: 100 MHz
Sample Rate: 1Gsa/s

high resolution ADC
DS2102A

High Resolution increases the value of an oscilloscope

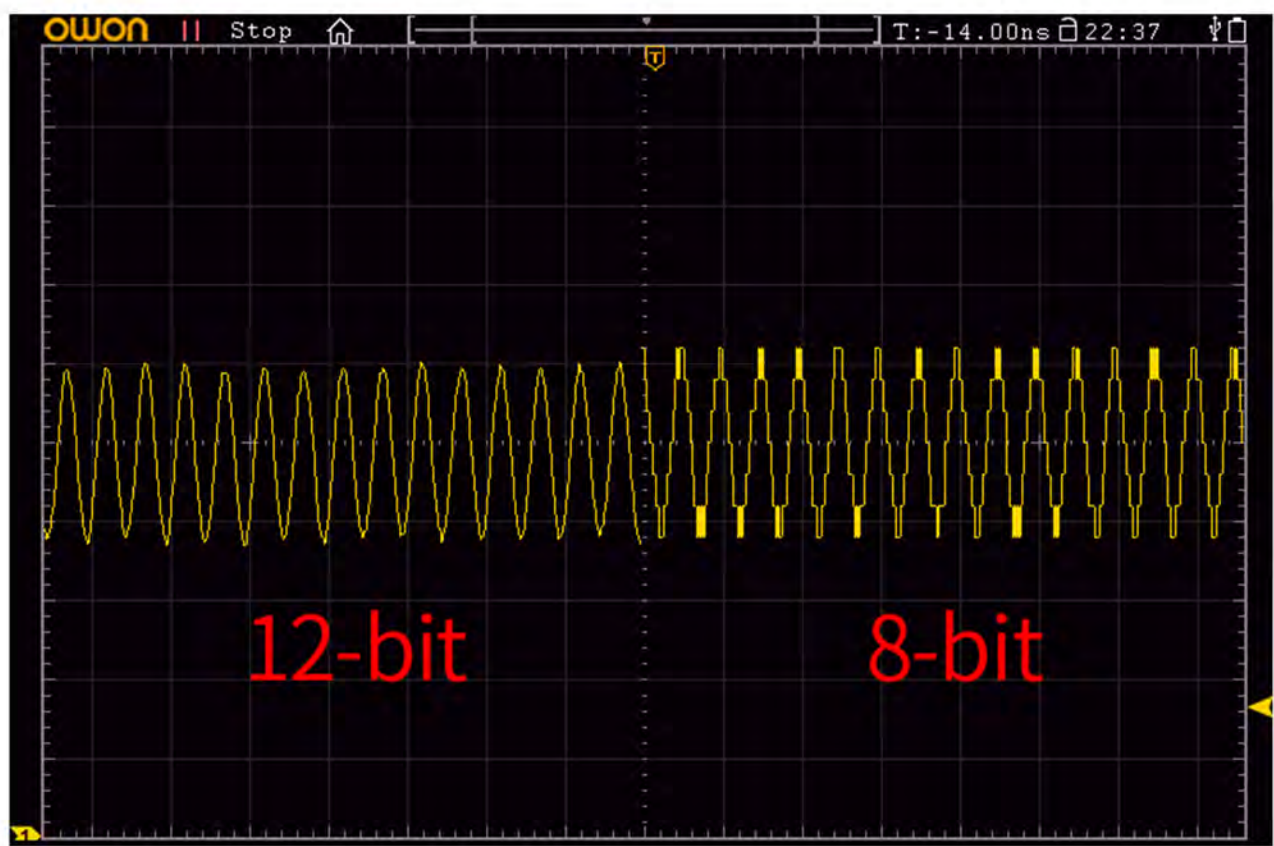
The first digital oscilloscope used a 5 - inch display. The 8 - bit ADC used with its 256 points just matched the screen resolution.

These days, even though the screen size and resolution has greatly increased, many manufacturers still only use 8 - bit ADC's with interpolation to give a smooth display. The OWON XDS2102A uses an 8 - inch display and a 12 - bit hardware ADC providing 16 times the precision and detail over an 8 - bit device.

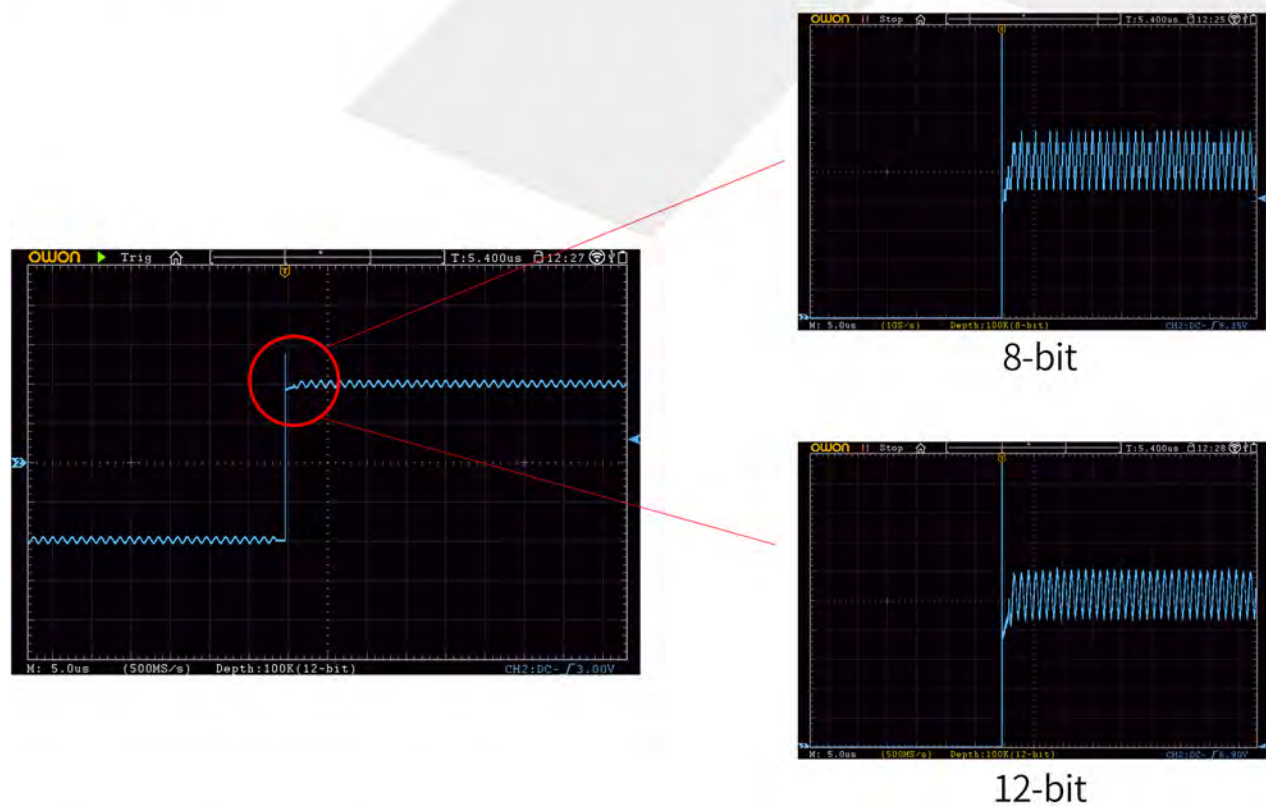
Six Reasons to Choose the OWON XDS2102A Oscilloscope

A highly Cost - Effective product with a 12 - bit ADC!

The 12 - bit ADC is standard in the XDS2102A providing 16 times greater precision and detail!

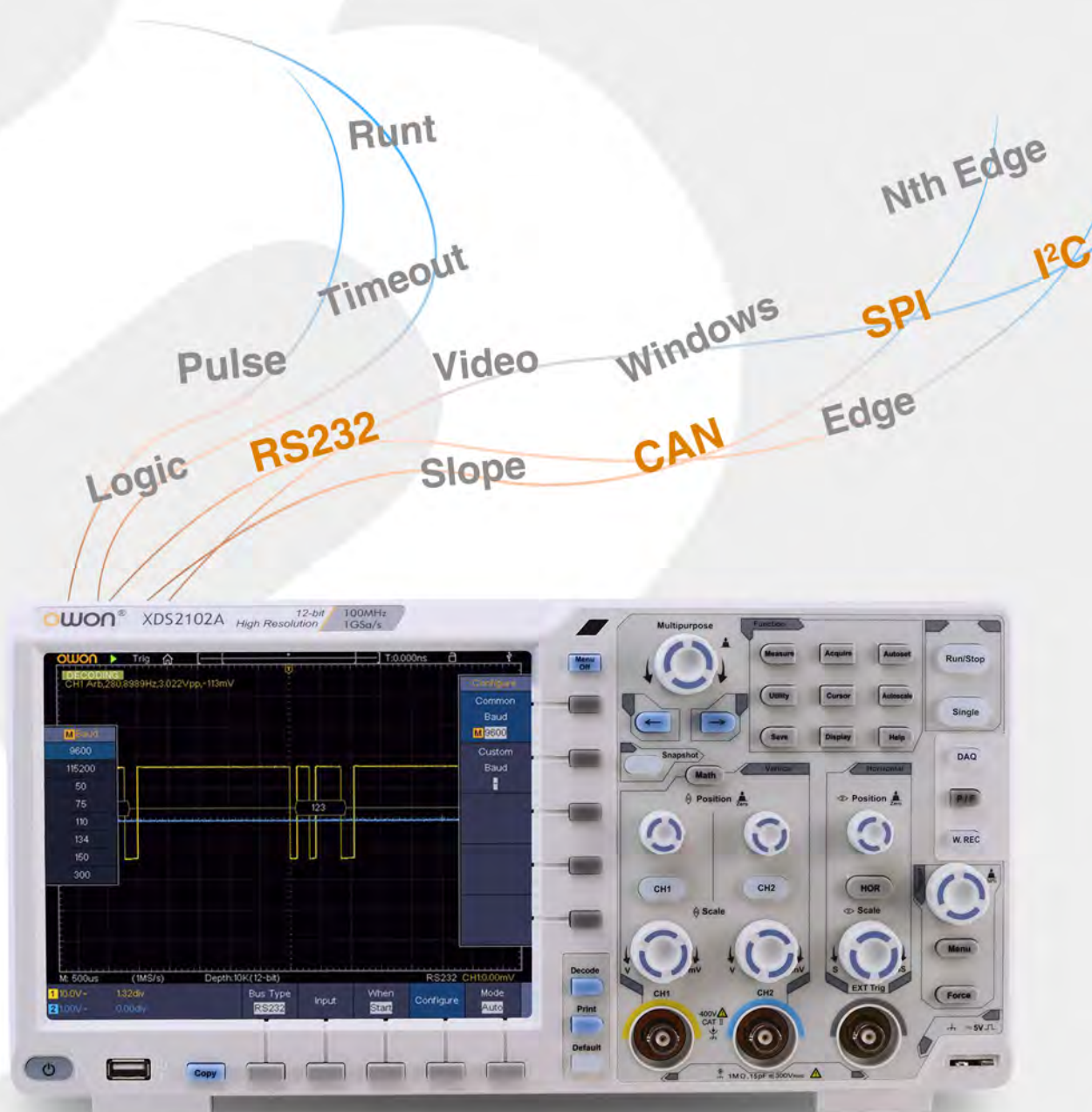


XDS2101A Measures the signal more accurately.

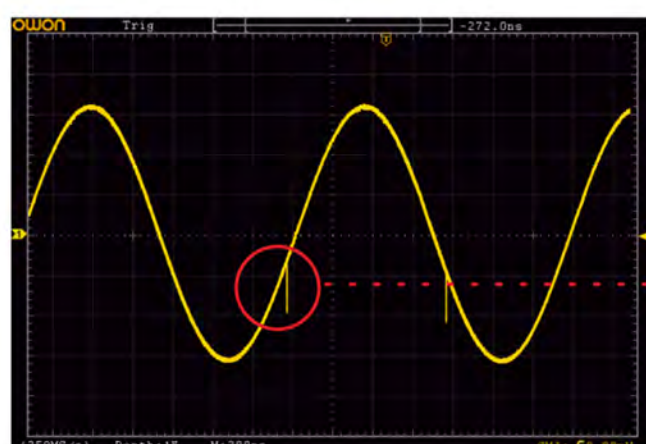


XDS2101A Allows full bandwidth signal display.

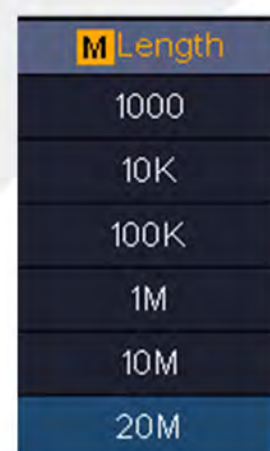
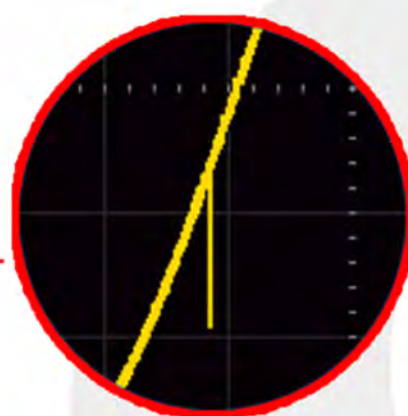
Comes as Standard with Advance Trigger and Communications Protocol Decoding Functions!



**Our Latest Process Technology provides
the Best Performance Possible!**

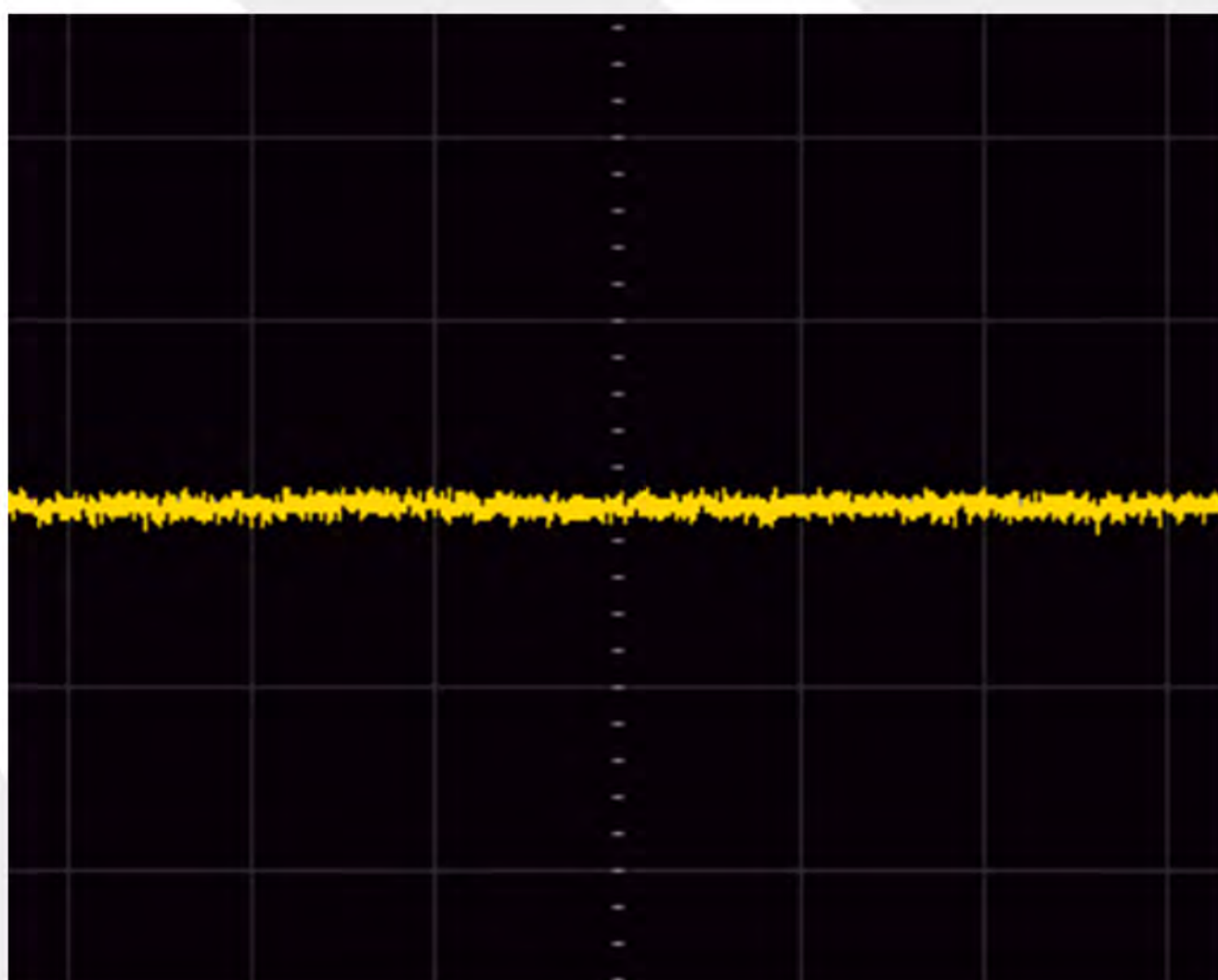


55,000 wfms/s high refresh rate



20M record length

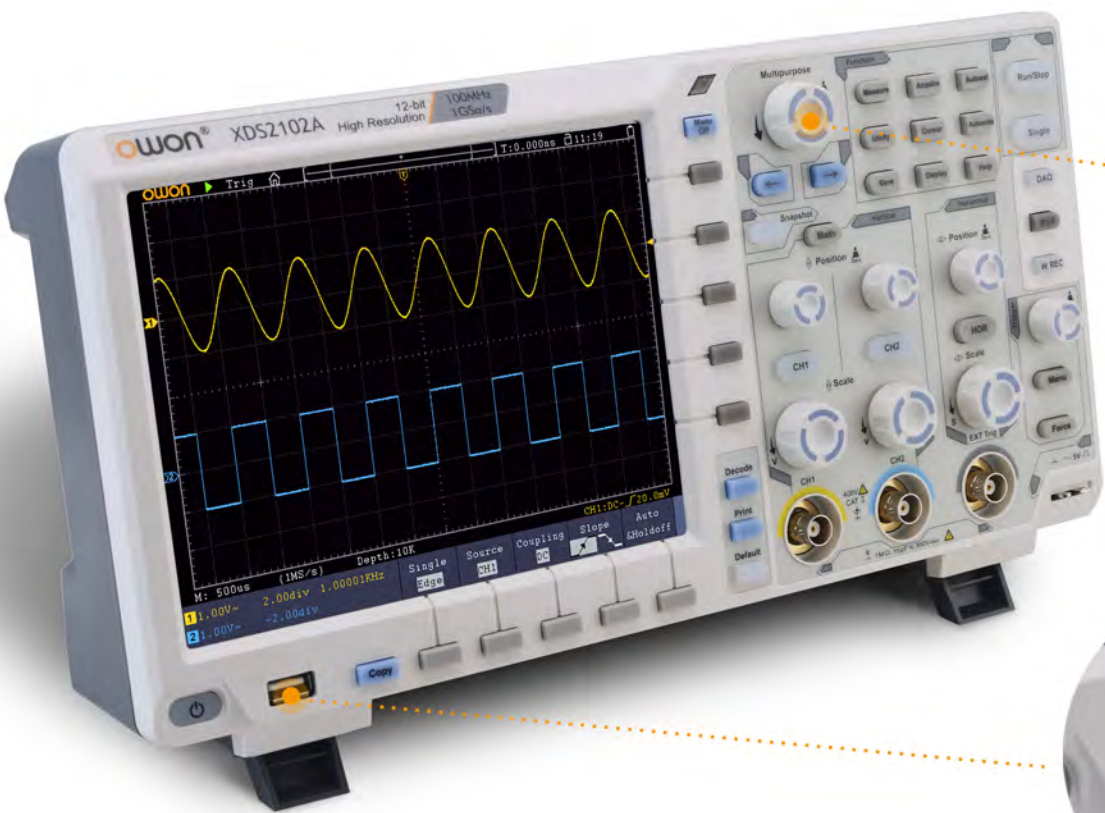
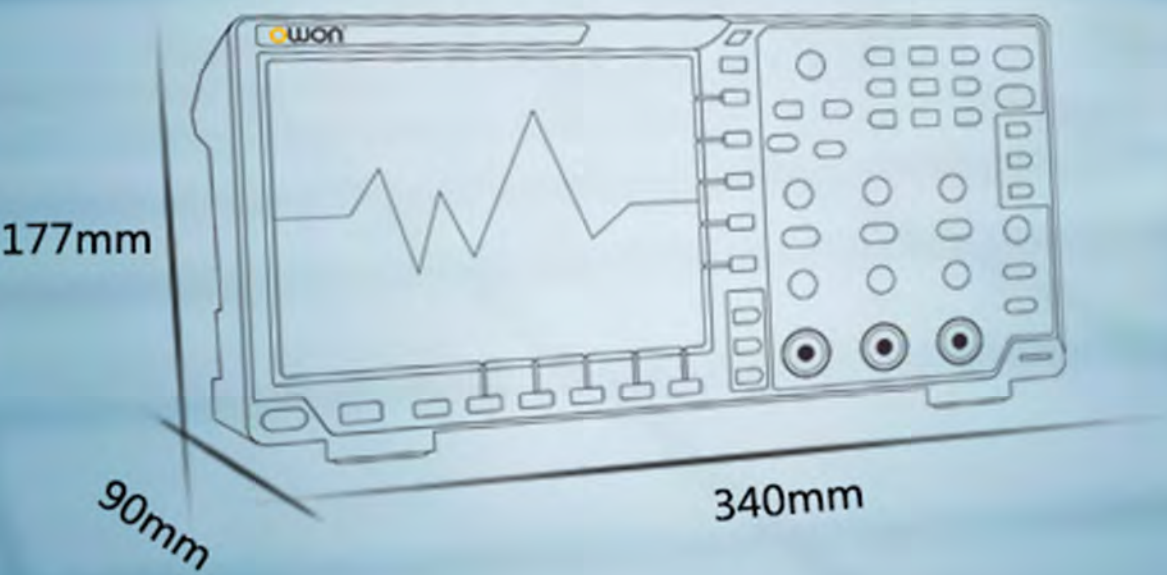
12-bit resolution allows you to see small signals you could otherwise mis



Supplied as standard with high quality 100Mhz passive probes



Its Ultra - thin body (90mm Depth) saves space on your desk



Rotary and Push Button



USB Port – Store Data & Firmware Updates.

Extra Features of the XDS2102A:

- + SCPI commands (Supports Labview, VB 6 and Visual C++ 6)
- + Supports Advanced functions like calculus and FFT RMS.
- + Up to 50 groups of waveform storage.

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 ΔV
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		±1 ppm (TYP, Ta=+25℃)
Interpolation		sin(x) / x
Interval (ΔT) 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, I²C, SPI, RS232, and CAN
Bus Decoding		I²C, 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		ΔV, and ΔT between cursors, ΔV and ΔT 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

Accessories and Packaging



- 

1 Power Cord
- 

2 USB
- 

3 Probe
- 

4 Probe Adjuster
- 

5 CD Rom
- 

6 Quick Guide

Optional:

