The suitable one is the best one
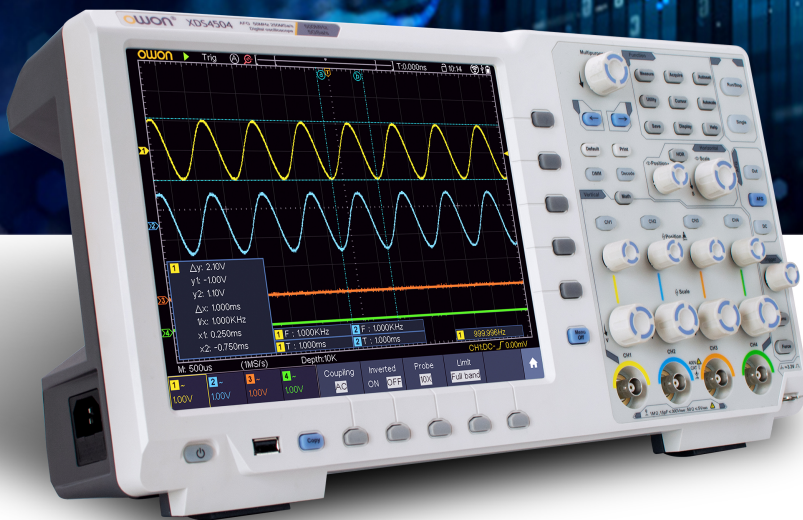
## XDS4000 Series
Multi-function TouchTest Oscilloscope

+ Including 7 measurement functions in one: oscilloscope, waveform generator, multimeter, FFT spectrum analyzer, frequency counter, protocol analysis, amplitude-frequency curve analysis
+ 350 MHz / 500 MHz oscilloscope bandwidth, 5 GSa/s sample rate
+ Standard 400 Mpts memory depth
+ 600,000 wfms/s refresh rate, easy to capture exceptional and low probability events
+ Advanced function calculation function
+ Standard 50MHz single-channel arbitrary waveform generator
+ The oscilloscope captures the waveform, the waveform generator generates the waveform, help engineers to further analyze the circuit
+ Waveform cloning function, quickly generate captured waveforms
+ A variety of triggers and bus decodes
+ Optional multimeter and multimeter data logger function
+ Standard Bode plot for loop test analysis
+ Multi-interface design: USB Host & Device, LAN, VGA; supports standard SCPI communication, USB Device supports USB TMC
+ 10.4-inch multi-touch screen

# Super Cost-effective 7-into-1 Integrated Oscilloscope

1 Oscilloscope

+ 350 MHz, 500 MHz; up to 5 GSa/s real-time sample rate
+ 2 or 4 analog channels
+ Standard 400 Mpts memory depth
+ Maximum waveform capture rate of 600,000 wfms/s
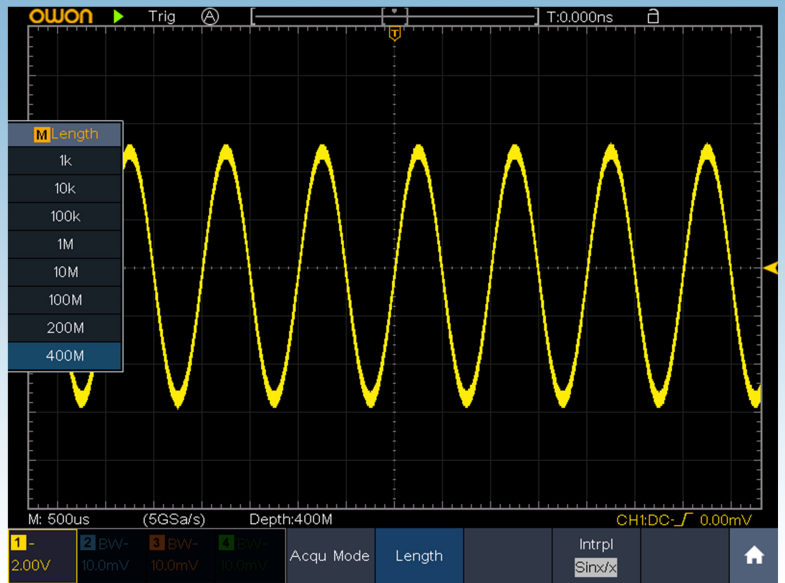
2 50M Waveform Generator

+ Standard 50MHz single-channel arbitrary waveform output
+ 250 MSa/s sample rate
+ 16k arbitrary waveform length
+ 64 pre-defined waveforms
+ Output amplitude 2mVpp-20Vpp
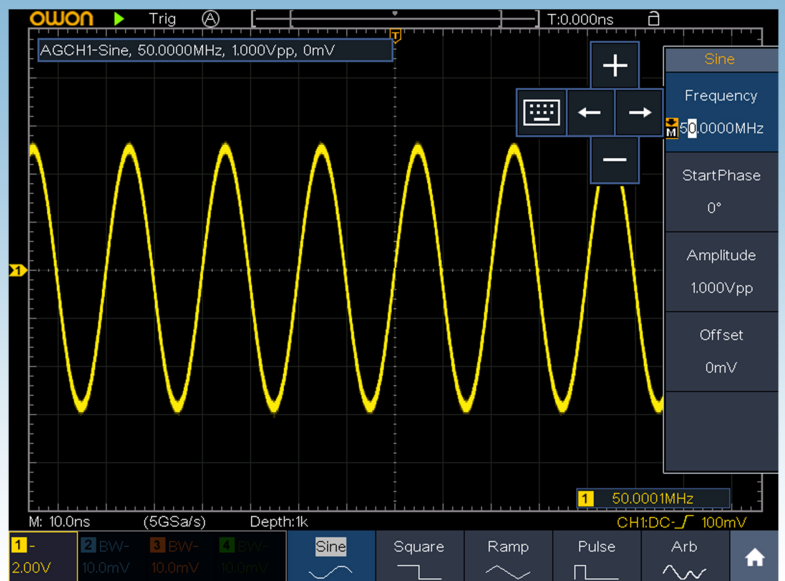
3 4 ½ Digits Multimeter with Data Logging Function (option)

+ Support voltage, current, capacitance, resistance, continuity, diode test
+ Built-in data logging function, can analyze the change trend of the measured object for a long time
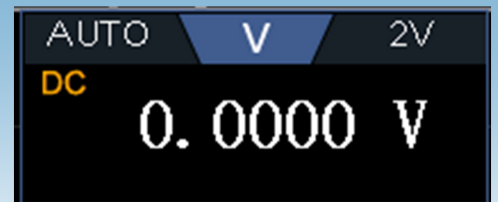
4 High-precision Frequency Counter

+ 6-digit high-precision frequency counter
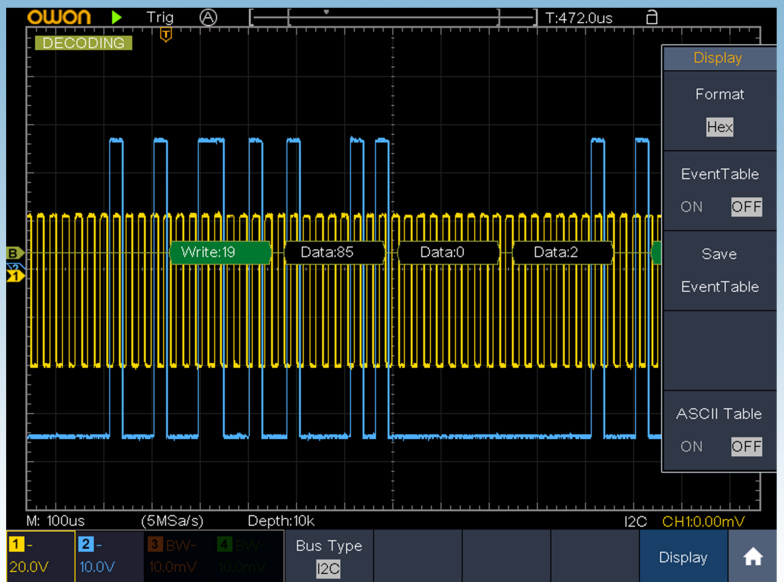+ Support the statistics on the max. and min. values of the frequency

5 FFT Spectrum Analyzer

+ Standard FFT, real-time operation of waveform data
+ Support 4 FFT windows: Rectangular, Hamming, Hanning and Black-harris
+ Max. frequency range: oscilloscope analog bandwidth
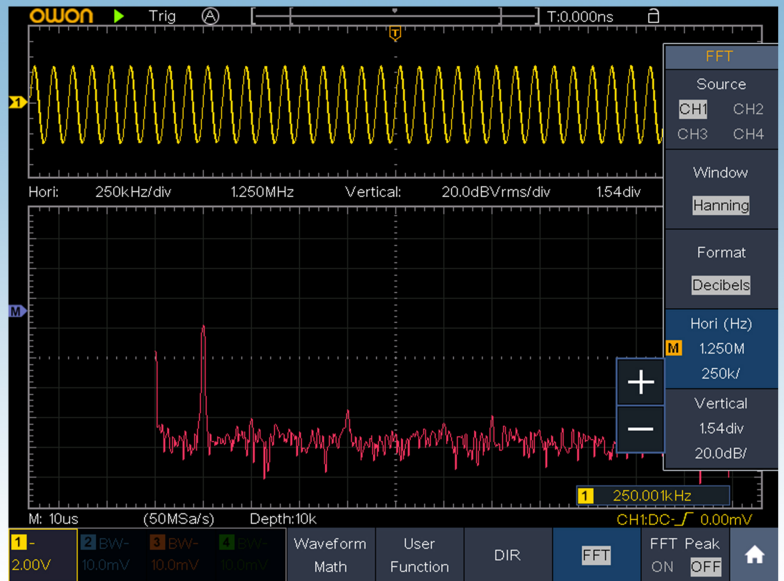
6 Protocol Analysis (Option)

Support IIC, SPI, RS232/UART, CAN serial bus decoding function

7 Frequency Characteristic Curve

XDS4000 series can generate the sweep signal of the specified range by controlling the built-in signal generator module and output the signal to the switch power supply to carry out loop analysis test. The bode plot generated from the test can display the gain and phase variations of the system under different frequencies, enabling engineers to get a clear view about data from the bode plot. By analyzing the phase margin (PM) and gain margin (GM), they can judge whether the system is stable.

LARGE TOUCH SCREEN, EXCELLENT INTERACTIVE EXPERIENCE

10.4-inch LCD, clear waveform display, the multi-touch screen allows engineers to work more efficiently. The buttons and knobs of the traditional oscilloscope are retained to meet different operating habits.
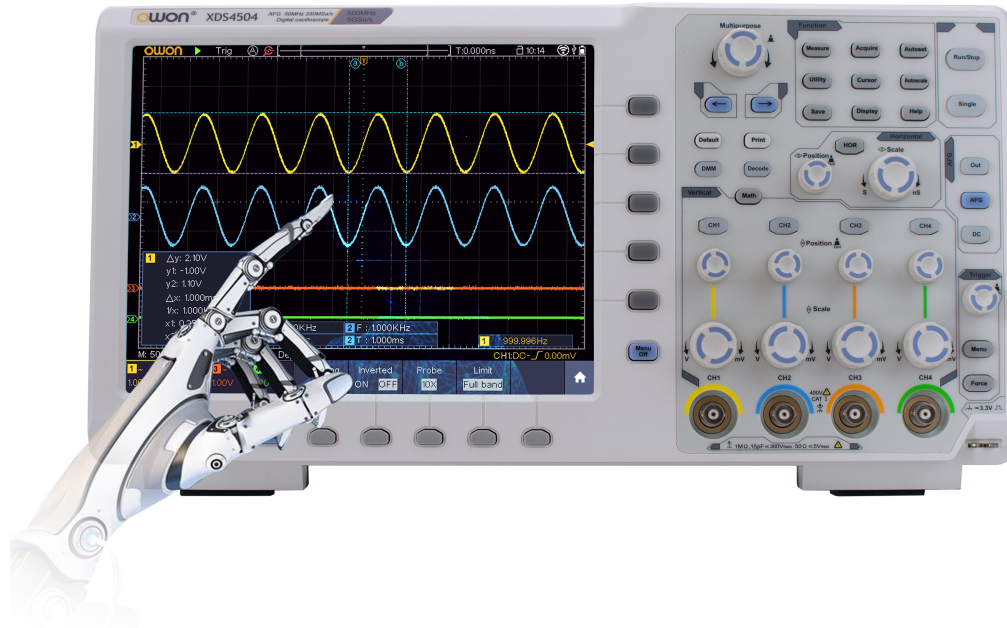
MULTIMETER WITH DATA LOGGER FUNCTION, MAKE THE MEASUREMENT MORE ACCURATE

XDS4000 can record the data measured by the multimeter in the internal memory or external U disk, and export the CSV format for further analysis.
The recording sampling interval can be set, ranging from 0.5s to 10s.
Maximum duration: 3 days for internal memory and 10 days for external memory.

Model	XDS4352	XDS4502	XDS4354	XDS4504
Bandwidth	350MHz	500MHz	350MHz	500MHz
Sample Rate	5GS/s			
Horizontal Scale (s/div)	500ps/div - 1000s/div, step by 1 - 2 - 5			
Channel	2		4	
Display	10.4 inch LCD touch screen			
Record length	400M			
Waveform Refresh Rate	600，000 wfms/s			
Vertical Sensitivit	1MΩ :1mV/div~ 10V/div；50Ω : 1mV/div ~ 1V/div			
Vertical Resolution (A/D)	8bits			
Input impedance	1MΩ±2%，in parallel with 15pF±5pF；50Ω ± 2%			
Input coupling	DC, AC, Ground			
Trigger type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I2C, SPI, RS232, CAN			
Decoding Type (optional)	RS232, I2C, SPI, CAN			
Automatic measurement	Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +Pulse Width, -Pulse Width, +Duty Cycle, -Duty Cycle, Delay A→B ⌮ , Delay A→B ⌮ , Cycle RMS, Cursor RMS, Screen Duty, FRR、FRF、FFR、FFF、LRR、LRF、LFR、LFF、Phase A→B ⌮ , Phase A→B ⌮ , +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count, Area, and Cycle Area.			
Waveform math	＋，－, *, / ,FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)			
Waveform storage	100 waveforms			
Communication interface	USB Host, USB Device; Trig Out(Pass/Fail); LAN port; VGA port; EXT Trig In			
Printer compatibility	PictBridge			
Dimension	422 mm (W)×226 mm (H)×135 mm (D)			
Weight	Approx. 5 kg (without accessories)			

+ Arb Waveform Generator Specifications

Max Frequency Output	50MHz
Sample Rate	250MS/s
Channel	1 channel
Vertical Resolution	14bits
Amplitude Range	2mVpp - 5Vpp（≦50MHz）；2mVpp - 20Vpp（≦25MHz）
Waveform Length	16K
Output Waveforms	Sine, Square, Pulse, Ramp, Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, Noise, and others, total 64 built-in waveforms, and user-defined arbitrary waveform

+ Multimeter Specifications (optional)

Full Scale Reading	4½ digits	Auto Range	√
Measure	Voltage, Current, Capacitance, Resistance, Frequency, Duty cycle, Continuity, Diode test		

1 XDS4000 series 2 Probe x 2 3 Probe Adjuster 4 Multimeter Lead (optional)

5 CD Rom & Quick Guide 6 Power Cord 7 USB Cable 8 Q9 Cable

9 Current Ext Module (optional)

Dimension (WxHxD): 422 x 226 x 135 （mm）

Device Weight: Approx. 5 KG