



SDS200 Series

Multifunctional Digital Oscilloscope



Experience **Professional**
Multifunctional Oscilloscopes



Dual-channel
Oscilloscope

Signal
Generator

100 - 200 MHz

Bandwidth

1GS/s

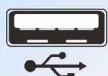
Dual-channel independent
real-time sampling rate

20M

Record Length

30 types

Automatic
Measurement



USB

USB Host and USB Device
Communication Interface.



USB



SCPI

Supports SCPI and LabVIEW.

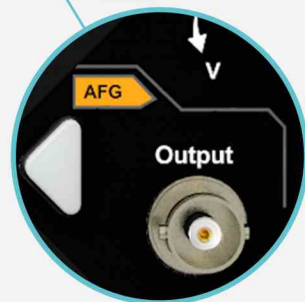
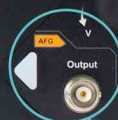


LabVIEW

25MHz Arbitrary Waveform Generator (only for SDS210S, 215S, 220S)

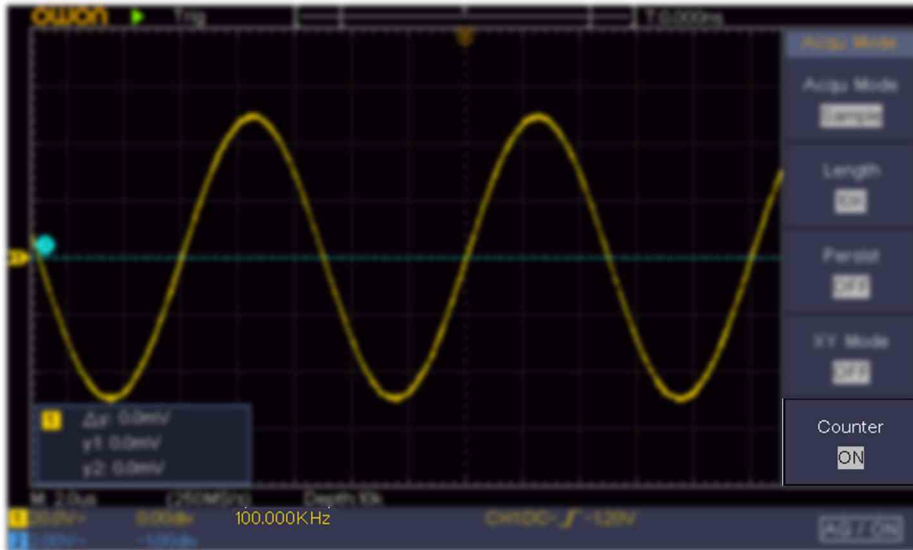


- + Max output frequency: 25MHz
- + Real-time sample rate: 125MSa/s
- + Arbitrary waveform length: 8K
- + Output amplitude: 5 mVpp to 3 Vpp (50Ω)



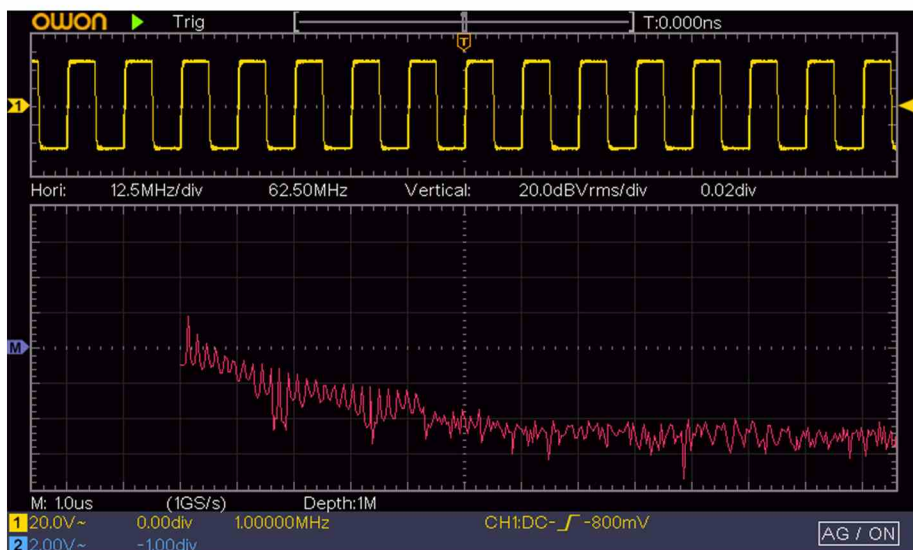
Meeting All Your Needs At Once

— 6-digit High-precision Frequency Counter —



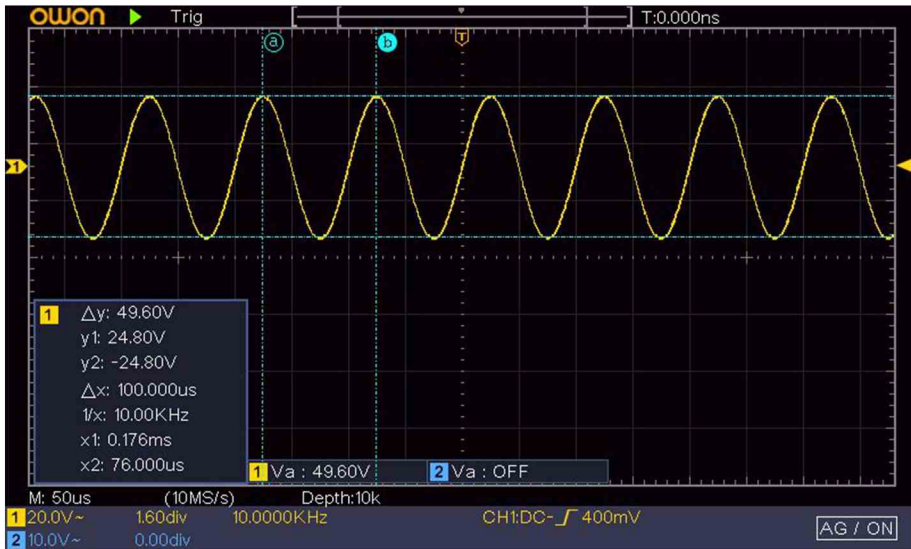
The oscilloscope's built-in frequency counter accurately measures input signals using CH1 or CH2 as the measurement source with a 6-digit display.

— FFT Spectrum Analysis —



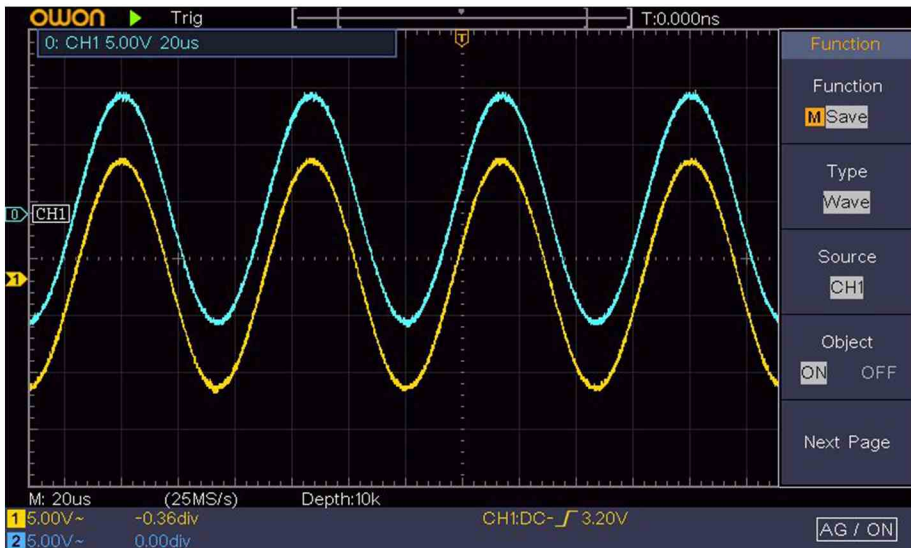
FFT converts time-domain signals into frequency-domain components, helping you measure harmonics, distortion, noise, and vibration in your system.

Cursor Measurement



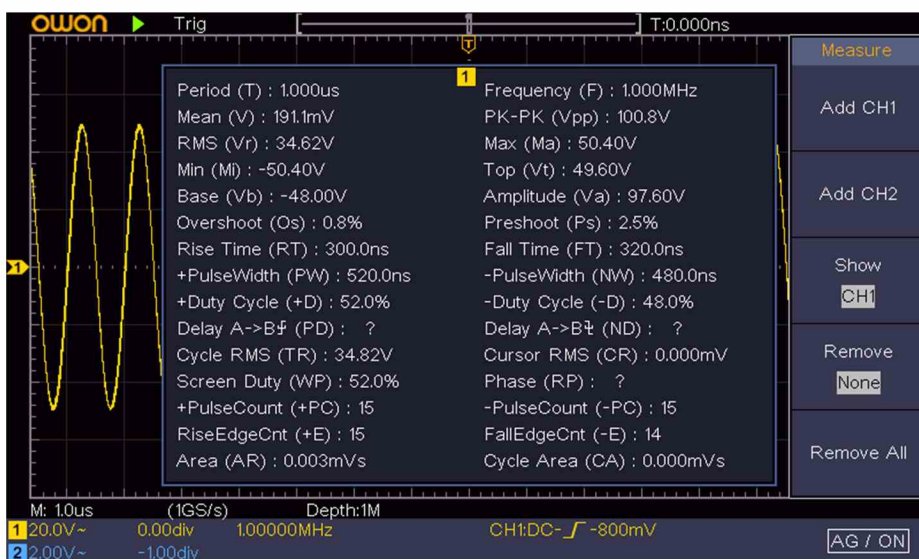
The cursor enables measurement of both X-axis(time) and Y-axis(voltage) values of the waveform, and supports all "auto-measurement" parameters.

Save / Recall



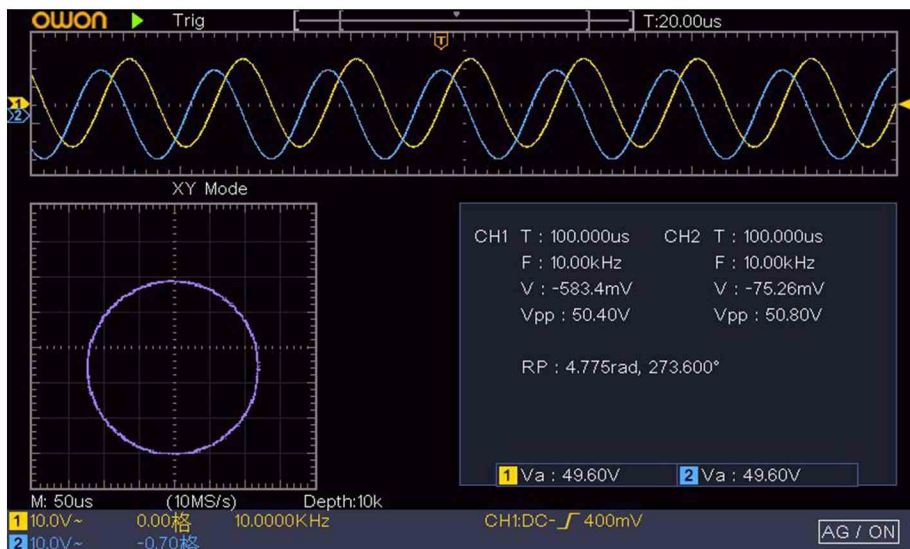
Save and recall various data formats including waveforms, reference waveforms, CSV files, and images for comparative analysis.

30 Automatic Waveform Measurements



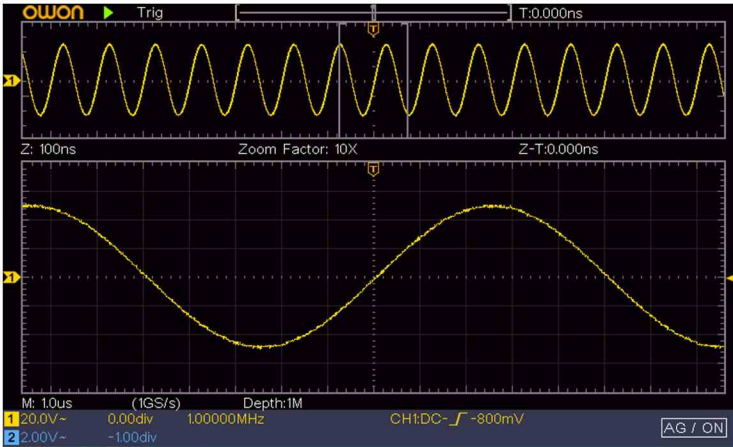
Covering time values, counts, delay and phase values, amplitude values, and more.

X-Y mode



Three-screen display for easy phase and component characteristic testing.

7-inch TFT LCD display



All signals and screen information can be clearly viewed.

It has the same-screen display function,
which can zoom in and observe signal details.

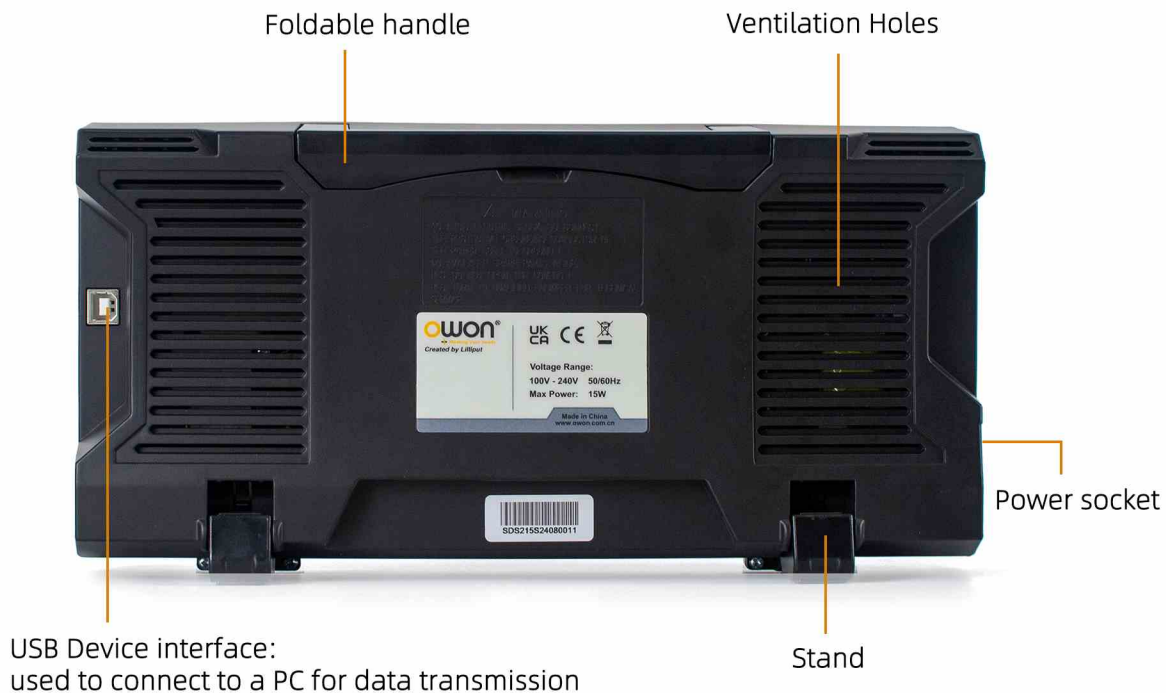
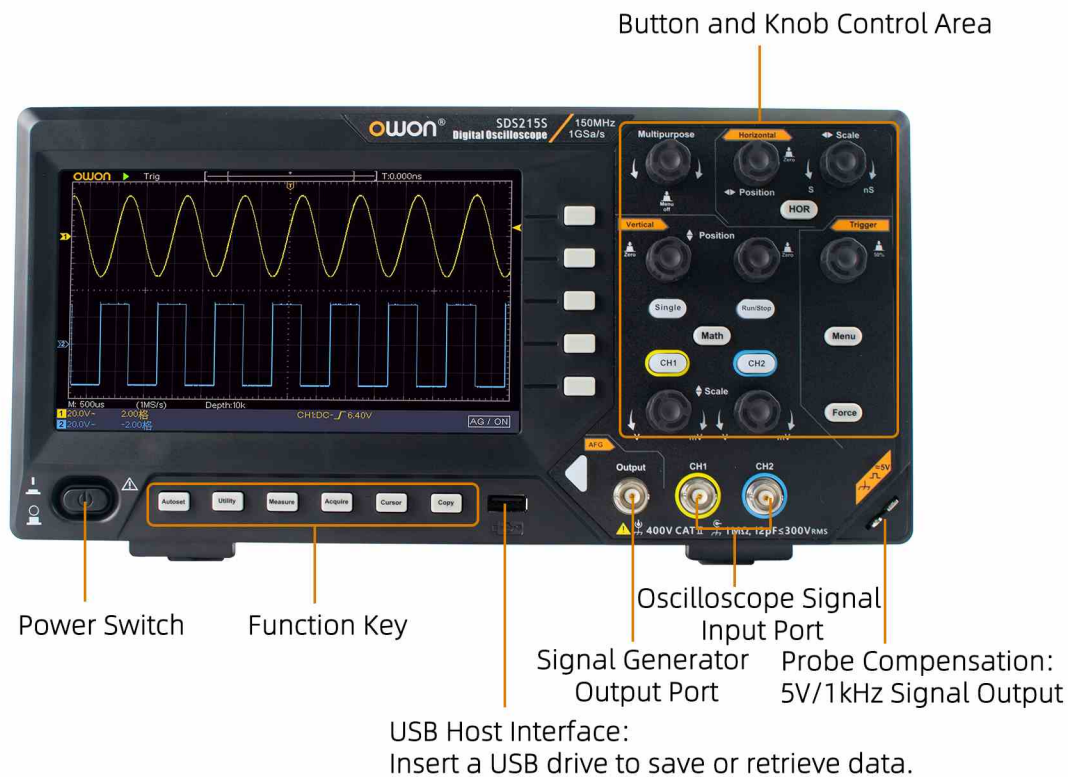


Support remote control and secondary development

Communicate with PC via USB Device interface, support SCPI and LabVIEW functions, provide free computer software and some programming development demos, so you can remotely control the instrument and conduct secondary development.



Product Structure



Specifications

Model		SDS210(S)	SDS215(S)	SDS220(S)
Bandwidth		100MHz	150MHz	200MHz
Sample Rate		Max 1GS/s		
Acquisition Mode		Normal, Peak detect, Averaging		
Input Coupling		DC, AC, Ground		
Input Impedance		1M Ω ±2%, in parallel with 20 pF±5 pF		
Probe Attenuation Factor		1X, 10X, 100X, 1000X		
Record length		20M		
Horizontal Scale (s/div)		2 ns/div – 1000 s/div, step by 1 – 2 – 5		
Vertical Sensitivity		2 mV/div ~ 10 V/div		
Automatic Measurement		Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +PulseWidth, -PulseWidth, +Duty Cycle, -Duty Cycle, Delay A→B $\frac{\mu}{s}$, Delay A→B $\frac{ns}{s}$, Cycle RMS, Cursor RMS, Screen Duty, Phase, +PulseCount, -PulseCount, RiseEdgeCnt, FallEdgeCnt, Area, and Cycle Area.		
Waveform Math		+, -, ×, ÷, FFT		
Waveform Storage		16 waveforms		
Lissajou's Figure	Bandwidth	full bandwidth		
	Phase Difference	±3 degrees		
Trigger Type		Edge, Video		
Communication Interface		USB Host and Device		
Frequency Counter		available		

Waveform Generator Specifications

Standard Waveforms	Sine wave, square wave, ramp wave, pulse wave, arbitrary wave
Arbitrary Waveforms	Sinc, exponential rise, exponential decline, Gaussian more than 160 kinds
Sine	0.1Hz ~ 25MHz
Square	0.1Hz ~ 5MHz
Ramp	0.1Hz ~ 1MHz
Ramp	0.1Hz ~ 5MHz
Arbitrary Waveform	0.1Hz ~ 5MHz
Sample rate	125MSa/s
Amplitude (50 Ω)	0.005Vpp ~ 3Vpp
DC Offset Range	±(3V) (high resistance)
Channel	1
Waveform Length	8k
Vertical Resolution	14 bit
Load Impedance	50 Ω

Others

Display	7 inch (800*480) LCD
Dimension (L x H x D)	301mm × 152mm × 70 mm
Weight	≈ 1.1kg

Specifications subject to change without prior notice.

Accessories

The accessories subject to final delivery.


Power Cord


Manual


USB Cable


Probe


Probe Adjust


Soft Bag (optional)


BNC Cable (only for SDS210S,215S,220S)