

VDS6000 Series PC Oscilloscope



- + Two channel ultra thin design
- + Up to 100MHz bandwidth, and max 1GS/s real-time sample rate
- + 5MHz signal generator as standard
- + 8 bits, 12 bits, 14 bits vertical accuracy, more accurate measurement
- + Max 10M record length
- + Friendly UI : X-Y, and waveform 2 views displayed on the same screen
- + SCPI、LABVIEW supported
- + Support the secondary development of windows / Linux / Android / Ios platform
- + USB typ-c power supply, faster data transmission, support 5-15v wide voltage power supply
- + WIFI unlimited transmission, more convenient to use.
(WiFi accessories are required)

+ Performance Specifications

Model	VDS6102	VDS6152	VDS6102A	VDS6152A
Bandwidth	100MHz	150MHz	100MHz	150MHz
Channel	2+1 (signal source)			
Sample Rate	1GSa/s			
Rise Time	≤3.5 ns	≤2.3 ns	≤3.5 ns	≤2.3 ns
Horizontal Scale (s/div)	5ns/div ~ 100s/div , step by 1 ~ 2 ~ 5			
Sampling mode	General sampling, peak detection, average			
Record Length	10M			
Input Coupling	DC, AC, GND			
Input Impedance	1MΩ±2% , in parallel with15pF±5pF			
Time base accuracy	±25ppm			
Interval (ΔT) Accuracy (full bandwidth)	Single : ±(1interval time+100ppm×reading+0.6ns) , Average >16 : ±(1 interval time+100ppm×reading+0.4ns)			
Vertical Sensitivity	2mV/div ~ 5V/div			
Vertical Resolution (A/D)	8bits	8bits,12bits,14bits		
Max Input Voltage	40V Peak value (DC + AC Peak value)			
Bandwidth limitation	20 MHz , full bandwidth			
Probe Attenuation Factor	1X , 10X , 100X , 1000X			
Isolation between channels	50Hz: 100 : 1 , 10MHz: 40 : 1			
Interpolation	Sin(x)/x			
Displacement range	±20 V (100 mV/div – 500 mV/div) ; ±40 V (1 V/div – 5 V/div)			
Single Bandwidth	full bandwidth			
Low frequency response (AC coupling, - 3dB)	≥5Hz (in BNC)			
DC Gain Accuracy	±3%		±2%	

Trigger Type	Edge, Pulse, Video, Slope,	
Line / Field Frequency (video)	NTSC, PAL, and SECAM standard	
Trigger Mode	Auto, Normal, and Single	
Cursor Measurement	ΔV , and ΔT between cursors	
Automatic Measurement	Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty	
Lissajous Figure	Bandwidth	full bandwidth
	Phase Difference	± 3 degrees
Communication Interface	USB (Typ-c) ; LAN, WIFI	
Power Consumption	$\leq 8W$	
Dimensions (W x H x D)	190mm x 120mm x 18mm	
Device Weight	0.4kg	

Signal source parameters

Standard waveform	sine (0.1 Hz - 5 MHz) 、 Rectangular wave (0.1 Hz-200 kHz) 、 Sawtooth wave (1 Hz-10 kHz) 、 Pulse wave (1 Hz-10 kHz)
Maximum output frequency	5 MHz
Sample Rate	25M Sa/s
Channel	1
Vertical Resolution (A/D)	10bits
Output amplitude	10mVpp - 5Vpp
DC offset range (AC+DC)	$\pm(2.5 Vpk - Amplitude Vpp/2)$
Output impedance	50 Ω Typical

Specifications subject to change without prior notice.

+ Application

design and debug circuit function test education and training

+ Accessories

The accessories subject to final delivery.

