

## VDS Series PC Oscilloscope



- + Up to 100MHz bandwidth, and max 1GS/s real-time sample rate
- + 2 / 4 channels
- + Max 10M record length
- + Friendly UI : FFT, or X-Y, and waveform 2 views displayed on the same screen
- + Multi-trigger option : edge, video, slope, pulse, and alternate
- + USB isolation - less signal interference, more PC protection
- + USB bus powering, and LAN remote control (optional)
- + Ultra-thin body design, easy portability
- + SCPI supported
- + LabVIEW supported (only in VDS3102, and VDS3104)

### Performance Specifications

Model	VDS1022I	VDS1022	VDS2062	VDS2064	VDS3102	VDS3104
Bandwidth	25MHz		60MHz		100MHz	
Channel	2+1 (multi)		4+1 (multi)	2+1 (multi)	4+1 (multi)	
Sample Rate	100MS/s			1GS/s		
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2 - 5			2ns/div - 100s/div, step by 1 - 2 - 5		
Rise Time	≤14ns		≤5.8ns		≤3.5ns	
Record Length	5K	10M	5M	10M	5M	
Input Coupling	DC, AC, and GND					
Input Impedance	1MΩ ± 2%, in parallel with 10pF ± 5pF					
Channel Isolation	50Hz:100:1; 10MHz:40:1					
Max Input Voltage	400V (DC + AC peak)		40V (DC + AC peak)			
DC Gain Accuracy	±3%					
DC Accuracy	Average ≥ 16 : ±(3% reading + 0.05 div) for △T					
Probe Attenuation Factor	1X, 10X, 100X, 1000X					
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)					
Sample Rate / Relay Time Accuracy	150ps					
Interpolation	sin(x)/x					
Interval (△T) Accuracy (full bandwidth)	Single : ± (1 interval time + 100ppm × reading + 0.6ns), Average > 16 : ± (1 interval time + 100ppm × reading + 0.4ns)					
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)					

Model	VDS1022I	VDS1022	VDS2062	VDS3102	VDS2064	VDS3104
Vertical Sensitivity			5mV/div - 5V/div			
Trigger Type		Edge, Pulse, Video, Slope, and Alternate				
Trigger Mode		Auto, Normal, and Single				
Trigger Level		±5 divisions from screen center				
Acquisition Mode		Sample, Peak Detect, and Average				
Line / Field Frequency (video)		NTSC, PAL, and SECAM standard				
Cursor Measurement		△V, and △T between cursors				
Automatic Measurement		Vpp, Vavg, Vrms, Freq, Period, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Preshoot, Rise Time, Fall Time, Delay A→B, Delay A→B, +Width, -Width, +Duty, -Duty				
Waveform Math		+, -, *, /, invert, FFT				
Lissajous Figure	Bandwidth	full bandwidth				
	Phase Difference	±3 degrees				
Communication Interface	USB2.0 (isolation)	USB2.0		USB2.0, LAN (optional)		
Multi-function Interface	Signal Type	synchronized input / output, Pass / Fail, external trigger input				
	Level Standard	TTL				
Power Supply		5.0V/1A				
Power Consumption		≤1.5W		≤5W		
Dimensions (W x H x D)	170 x 120 x 18 (mm)		190 x 120 x 18 (mm)			
Device Weight	0.26 kg		0.30 kg			

Specifications subject to change without prior notice.

### Application

design and debug    circuit function test    education and training

### Accessories

The accessories subject to final delivery.



\* Power cord and adapter only available for models with LAN port.