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 inference, 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	VDS2052 (NEW!)	VDS2062	VDS2064	VDS3102	VDS3104
Bandwidth	25MHz		50MHz	60MHz		100MHz	
Channel	2+1 (multi)				4+1 (multi)	2+1 (multi)	4+1 (multi)
Sample Rate	100MS/s		250MS/s	500MS/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 (PK - PK) (DC + AC, PK - PK)	40V (PK - PK) (DC + AC, PK - PK)					
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	VDS2052 (NEW!)	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						
Lissajous Figure: 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						
Multi-function Interface: 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.

Probe　Probe Adjust　Power Cord*　CD Rom　Manual　USB Cable　Adapter*　Silicon Gel Case　Soft Bag (optional)

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