owon®

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	100MSa/s		1GSa/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	≤14 ns		≤5.8 ns		≤3.5 ns	
Record Length	5K		10M	5M	10M	5M
Input Coupling	DC, AC, GND					
Input Impedance	1MΩ±2%, in parallel with10pF±5pF					
Channels 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 + 0.05div) for △T					
Probe Attenuation Factor	1X, 10X, 100X, 1000X					
LF Respond (AC, -3dB)	≥5Hz (at input, AC coupling, -3dB)					
Sampling 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)					
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					

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Web: www.owon.com.cn / www.owontme.com E-mail: info@owon.com.cn Facebook: fb.me/owontech

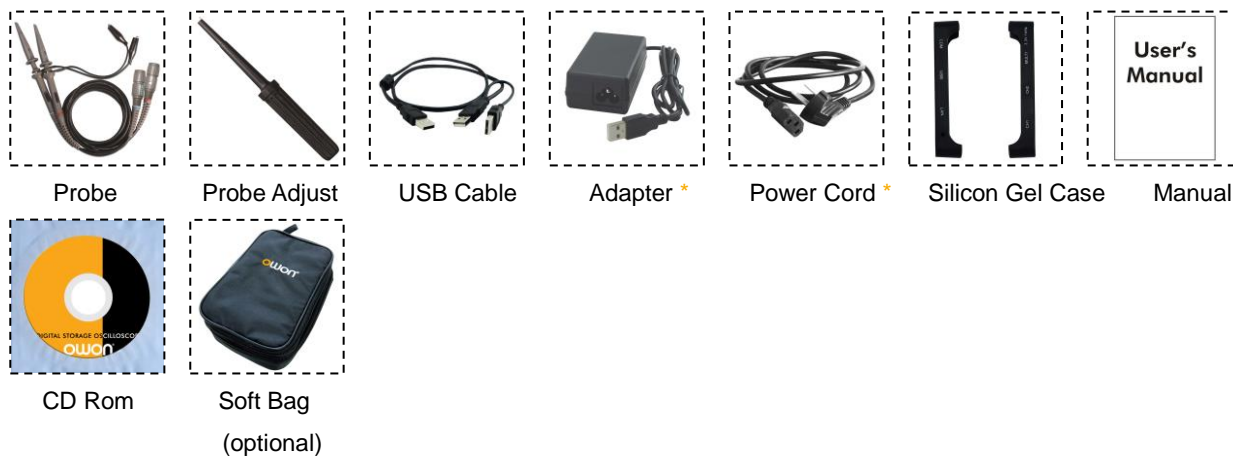| Acquisition Mode	Sample, Peak Detect, and Average		
Line / Field Frequency (video)	NTSC, PAL, and SECAM standard		
Cursor Measurement	△V, and △T between cursors		
Automatic Measurement	Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, Delay A→B ⌐ , Delay A→B ⌐ , +Width, -Width, +Duty, -Duty		
Waveform Math	+ , - , ×, ÷, invert, FFT		
Lissajous Figure — Bandwidth	full bandwidth		
Lissajous Figure — Phase Difference	±3 degrees		
Communication Interface	USB 2.0 (isolation)	USB 2.0	USB 2.0, 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		≤2.5W	≤6.5W
Dimensions (W × H × D)		170 × 120 × 18 (mm)	190 × 120 × 18 (mm)
Device Weight		0.26 kg	0.3 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	USB Cable	Adapter *	Power Cord *	Silicon Gel Case	Manual

CD Rom	Soft Bag (optional)

* Adapter and power cord only available for models with LAN port.

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