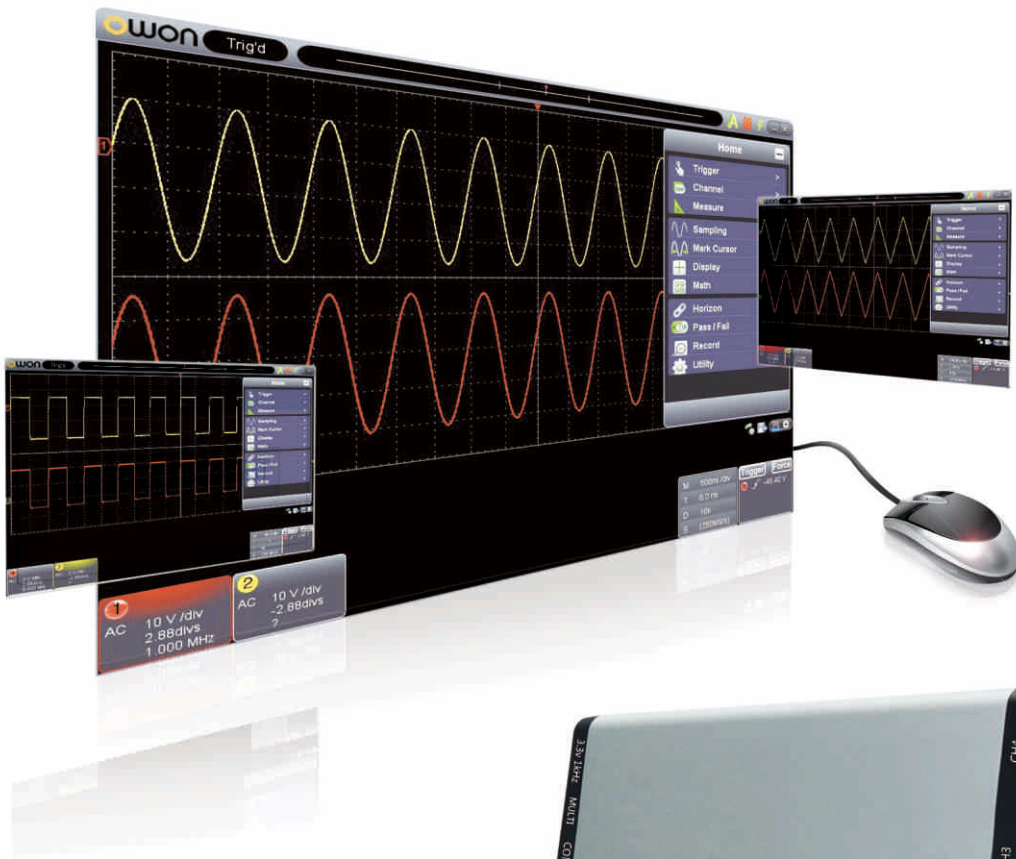


Easy Portability | Friendly Storage | Free Share

owon[®]
+ Meet your best need



VDS Series

PC Oscilloscope

- 2 / 4 channels /
- Up to 100MHz bandwidth, and max 1GS/s real-time sample rate /
- 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 /



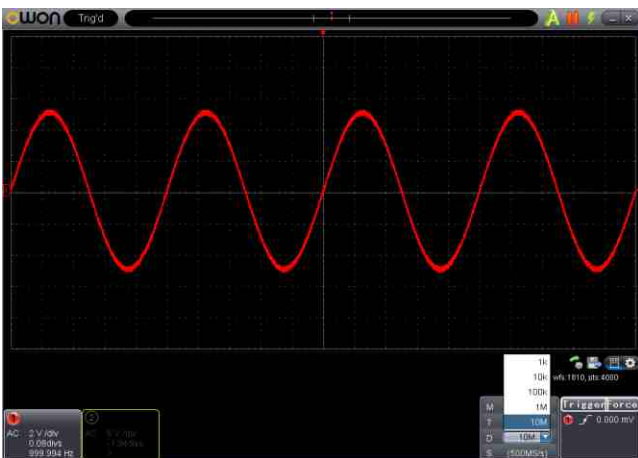
Ultra-thin body design, easy portability



- 1. RS232 port (optional)
- 2. USB port : power supplying via USB bus, communicating with PC
- 3. LAN port (optional) : remote control
- 4. Channel 1 signal input
- 5. Channel 2 signal input
- 6. EXT trigger input, trigger output, or Pass/Fail output
- 7. probe compensation : measurement signal (3.3V/1KHz) output

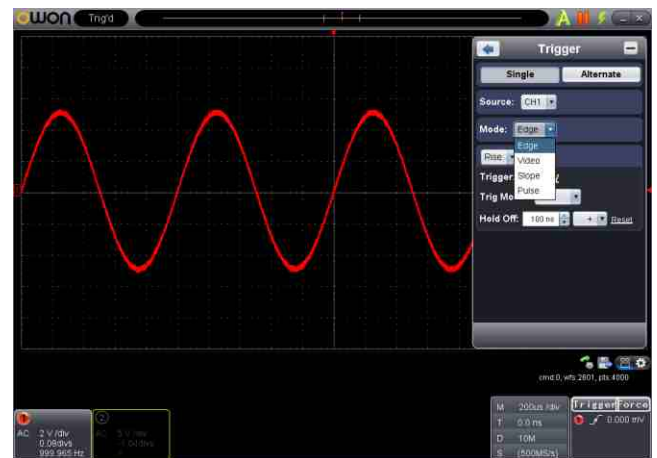
Note : When communicating with PC via LAN, the oscilloscope should be powered by adapter.

record length up to 10M



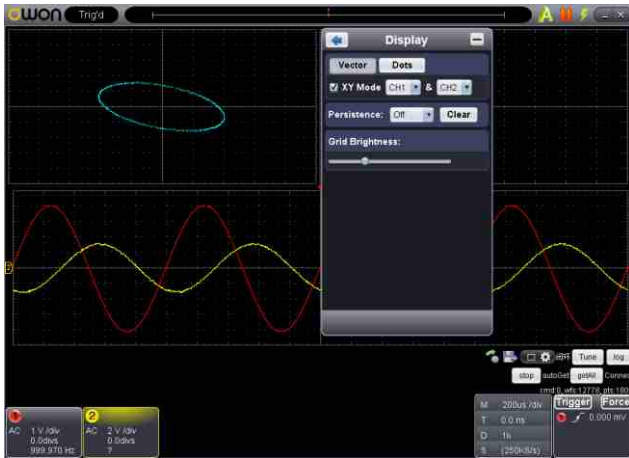
various record length option, max 10M

multi-trigger option

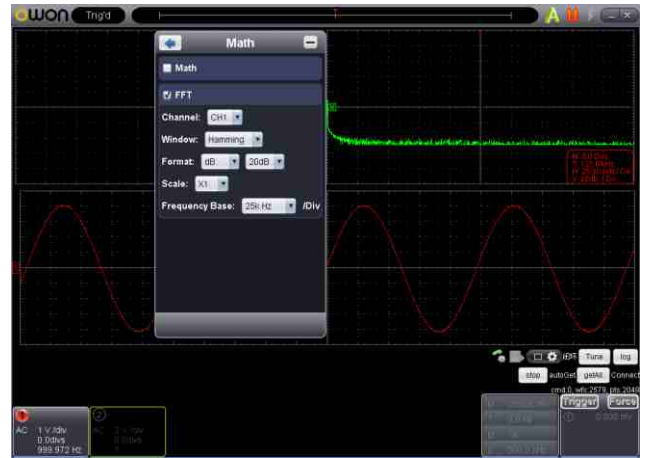


Edge, Video, Slope, Pulse, and Alternate

X-Y mode, FFT mode with waveform displayed on the same screen



X-Y mode with waveform display



FFT mode with waveform display

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		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, GND					
Input Impedance	1MΩ ± 2%, in parallel with 10pF ± 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 + 0.05 div) for ΔT					
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 (ΔT) 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)					

Performance Specifications

Model		VDS1022I	VDS1022	VDS2062	VDS3102	VDS2064 <small>NEW!</small>	VDS3104 <small>NEW!</small>
Vertical Sensitivity		5mV/div - 5V/div					
Trigger Type		Edge, Pulse, Video, Slope, Alternate					
Trigger Mode		Auto, Normal, 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		ΔV, and ΔT 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 × H × D)		170 × 120 × 18 (mm)			190 × 120 × 18 (mm)		
Weight (without package)		0.26 kg				0.30 kg	

Specifications subject to change without prior notice.

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 adapter only available for models with LAN port.

LILLIPUT®

E-mail : info@owon.com.cn

WWW.OWON.COM.CN

Fujian Lilliput Optoelectronics Technology Co., Ltd.

The Mansion of Optoelectronics, Hengsan Road
Lantian Industrial Zone, Zhangzhou 363005 P.R. China

Tel : +86.596.213.0430 Fax : +86.596.210.9272

Please contact local distributor for further information.

