

Technical Specifications for VDS6000 Series PC Oscilloscope

Main Part

Bandwidth	VDS6102	100 MHz			
	VDS6152	150 MHz			
	VDS6102A	8-bit mode	100 MHz		
		12-bit mode	100 MHz		
		14-bit mode	20 MHz		
	VDS6152A	8-bit mode	150 MHz		
		12-bit mode	100 MHz		
14-bit mode		20 MHz			
Vertical Resolution (A/D)	VDS6102 VDS6152	8 bits			
	VDS6102A VDS6152A	8 bits/12 bits/14 bits			
Sampling Rate	VDS6102	2-CH working	500 MS/s		
	VDS6152	1-CH working	1 GS/s		
	VDS6102A VDS6152A	2-CH working	8-bit mode	500 MS/s	
			12-bit mode	250 MS/s	
			14-bit mode	100 MS/s	
	VDS6102A VDS6152A	1-CH working	8-bit mode	1 GS/s	
			12-bit mode	500 MS/s	
14-bit mode			100 MS/s		
Rise Time	VDS6102 VDS6102A	≤ 3.5 ns			
	VDS6152 VDS6152A	≤ 2.3 ns			
Horizontal Scale (s/div)	5ns/div - 100s/div, step by 1 - 2 - 5				
Sampling Mode	sample, peak detect, average				
Channel Q'nty	3 (2 main one + 1 auxiliary)				
Record Length	max 10M				
Input Coupling	DC, AC, ground				
Input Impedance	1 M Ω \pm 2%, in parallel with 15 pF \pm 5 pF				
Max Input Voltage	40 V (DC + AC Peak)				
DC Gain Accuracy	VDS6102 VDS6152	3% when ≥ 2 mV			
	VDS6102A VDS6152A	2% when ≥ 2 mV			
Vertical Sensitivity	2 mV/div - 5 V/div				
Trigger Type	edge, video, slope, pulse				

Trigger Mode	auto, normal, single
Line/Field Frequency (video)	supported standards: NTSC, PAL and SECAM broadcast systems
Automatic Measurement	Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, Delay A→B $\overline{\Phi}$, Delay A→B $\overline{\Psi}$, +Width, -Width, +Duty, -Duty

Function Generator Part

Standard Waveforms	sine, square, ramp, and pulse
Frequency Output	5 MHz
Sampling Rate	25 MSa/s
Channel Q'nty	1
Vertical Resolution	10 bits
Amplitude Range	10 mVpp – 5 Vpp
DC Offset Range (AC+DC)	± 2.5V
Output Impedance	50 Ω (typical)

General Part

Communication Interface	USB device (type-C), USB host (Wi-Fi extension supported), LAN
Wi-Fi Module	available in option
Power Source	5 - 15 VDC / 1.2A
Power Consumption	≤ 8 W
Device Dimension	w/h/d 190 x 120 x 18 mm
Weight	0.38 kg

V1.0

