

Comparison: DSO-2090 Vs DSO-2150 Vs DSO-2250 Vs DSO-2500 Vs DSO-5200 Vs DSO-5200A

		DSO-2090 USB	DSO-2150 USB	DSO-2250 USB	DSO-2500 USB	DSO-5200 USB	DSO-5200A USB	
1	Max. sample rate	Realtime sampling: 100MS/s	Realtime sampling: 150MS/s	Realtime sampling: 250MS/s	Realtime sampling: 500MS/s	Realtime sampling: 150MS/s using one channel, 75MS/s using two channels ;Equivalent sampling:50GS/s	Realtime sampling: 250MS/s using one channel, 125MS/s using two channels ;Equivalent sampling:50GS/s	
2	Bandwidth	40MHz(-3dB)	60MHz(-3dB)	100MHz(-3dB)	200MHz(-3dB)			
		Single shot bandwidth:40MHz	60MHz	100MHz	200MHz	75MHz	125MHz	
3	Buffer size	10K~ 64K samples		10K ~ 1M samples	10K~512K	10K~28K	10K ~ 1M samples	
4	Channels	2						
5	Voltage Range	10mV ~ 5V/div @ x1 probe				10mV ~ 10V/div @ x1 probe		
		(10mV, 20mV, 50mV, 100mV,200mV, 500mV, 1V, 2V, 5V, /div 1,2,5 sequence)				(10mV, 20mV, 50mV, 100mV, 200mV, 500mV, 1V, 2V, 5V, 10V/div 1,2,5 sequence)		
		100mV ~ 50V/div @ x10 probe				100mV ~ 100V/div @ x10 probe		
		1V ~ 500V/div @ x100 probe				1V ~ 1000V/div @ x100 probe		
		10V ~ 5000V/div @ x1000 probe				10V ~ 10000V/div @ x1000 probe		
6	Accuracy	±3%				±2%		
7	Timebase range	4ns/div ~1h/div(1-2-4 sequence)			2ns/div ~ 1h/div(1-2-4 sequence)			
8	Offset level	+/-4 divisions						
9	Coupling	AC, DC, GND						
10	Offset increments	0.03div			0.02div			
11	Impedance	1M ohm						
12	Input protection	Diode clamping. 35Vpk(DC + peak AC , without external attenuation)						
13	Roll mode	1s/div ~ 1h/div						
14	Resolution	8Bit				9Bit		
15	Range	10 divisions						
16	Pre/Post trigger	0% ~ 100%						
17	Trigger TYPE	Edge trigger: Rising edge, falling edge						

18	Trigger Mode	Auto, Normal and Single
19	Trigger Source	CH1,CH2, EXT
20	X-Y Mode	Yes
21	Autoset	Yes
22	Settability	0.03 div increments
23	Trigger level	adjustable: +/-4 divisions
24	Measurements	Vp-p, Vmax, Vmin, Vmean, Vrms, Vamp, Vhigh, Vlow, positive overshoot, negative overshoot, cycle mean, cycle rms, period, frequency, positive pluse width, negative pulse width, rise time(10% ~ 90%), fall time(10% ~ 90%), positive duty cycle, negative duty cycle
25	Cursor	Time/frequency difference, voltage difference
26	Math	Addition, subtraction, multiplication, division
27	FFT	Rectangular, Hanning, Hamming, Blackman Window
28	Interface	Universal Serial Bus(USB2.0)
29	Power	No external power source required.
		* Bus-powered from USB
30	Calibration Signal Ouput	2V, 1kHz, Square Wave
31	Vertical Mode	CH1, CH2, DUAL, ADD
32	Waveform Display	Point/Line , Average Waveform, Persistance, Intensity Adjustment
33	Vertical Position Variable	Yes
34	Grid	On/Off
35	File management	Image save: BMP, JPG
		Data save:dso
		OLE(Object Linking and Embedding) automation: Data generation for Microsoft Excel
		Setting save/load
36	Print	Print in color/black&white
37	S/W compatiability	Windows 2000/XP/Vista
38	Labview driver	Yes
39	Dimension	187x100x33 mm