

PC Based DSO

DSO-2090
DSO-2150
DSO-2250
DSO-2500
DSO-5200
DSO-5200A

PC Based Arbitrary Waveform Generator

DDS-3005



Protek DSO Series / DDS-3005

USB Instruments



Features

Protek-USB Instruments

High performance with USB interface which suitable & convenient for most usages

Specifications

MODEL		PC Based DSO						PC Based Arbitrary Waveform Generator/Counter (DDS-3005)		
		DSO-2090	DSO-2150	DSO-2250	DSO-2500	DSO-5200	DSO-5200A			
Max. sample rate	Realtime sampling	100MS/s	150MS/s	250MS/s	500MS/s	100MS/s using one channel, 50MS/s using two channels	100MS/s	Frequency range	0.1Hz(DC) ~ 5MHz	
	Equivalent sampling					5GS/s	25GS/s	Frequency Resolution	0.01Hz	
Bandwidth		40MHz(-3dB)	60MHz(-3dB)	100MHz(-3dB)	200MHz(-3dB)	200MHz(-3dB)	200MHz(-3dB)	DAC Clock	0~50MHz continuously adjustable in 0.2Hz step	
Single shot bandwidth		40MHz	60MHz	100MHz	200MHz	50MHz	100MHz	Channels	1 CH waveform output	
Buffer size		32K samples			10K ~ 512K samples			Waveform Depth	256Ksa	
Channels		2 Channels						Vertical Resolution	14 Bits	
Voltage Range		10mV ~ 5V/div @ x1 probe			10mV ~ 10V/div @ x1 probe			Frequency Stability	<30ppm	
		100mV ~ 50V/div @ x10 probe			100mV ~ 100V/div @ x10 probe			Frequency Amplitude	0~±10V	
		1V ~ 500V/div @ x100 probe			1V ~ 1000V/div @ x100 probe			Output Impedance	100Ω	
Accuracy		10V ~ 5000V/div @ x1000 probe			10V ~ 1000V/div @ x1000 probe			Output Current	50mA Vpeak=100mA	
Timebase range		±3%						Harmonic Distortion	-65dBc(1KHz), -53dBc(100KHz)	
Offset level		4ns/div ~ 1h/div (1-2-4 sequence)			2ns/div ~ 1h/div (1-2-4 sequence)			Range	DC ~ 25MHz	
Coupling		+/-4 divisions						Input Amplitude	200mVpp~±25Vpp	
Impedance		AC, DC, GND						Coupling Mode	AC, DC Programmable	
Input protection		1M ohm						Accuracy	1Hz	
Roll mode		35Vpk(DC + peak AC, without external attenuation)						Input Impedance	> 500K	
Range		1s/div ~ 1h/div						Range	25MHz~2.7GHz	
Pre/Post trigger		10 divisions						Input Power	20dbm	
Trigger TYPE		0% ~ 100%						Coupling Mode	AC	
Trigger Mode		Edge trigger Rising edge, falling edge						Accuracy	256Hz	
Autoset		Auto, Normal and Single						Input Impedance	50Ω	
Settability		Yes						Digits	8 Bits + Sync, 1 Bit + Ext, Trigger 1Bit	
Trigger level		0.03 div increments						Level	3/5V TTL/CMOS	
Measurements		+/-4 divisions								
		Vp-p, Vmax, Vmin, Vmean, Vrms, Vamp, Vhigh, Vlow, positive overshoot, negative overshoot, cycle mean, cycle rms, period, frequency, positive pulse width, negative pulse width, rise time(10% ~ 90%), fall time(10% ~ 90%), positive duty cycle, negative duty cycle								
Cursor		Time/frequency difference, voltage difference								
Math		Addition, subtraction, multiplication, division								
FFT		Rectangular, Hanning, Hamming, Blackman Window								
Interface		Universal Serial Bus(USB)								
Power		No external power source required, Bus-powered from USB1.7W								
Calibration Signal Output		2V, 1kHz, Square Wave								
Trace Display		Point/Line								
Vertical Position Variable		Yes								
Grid		On/Off								
File management		Image save: BMP, JPG								
		Data save:.dso								
Print		OLE(Object Linking and Embedding) automation: Data generation for Microsoft Excel								
		Setting save/load								
		Print in color/mono								