



Oscillo- Scope

TEST &
MEASURING
INSTRUMENTS

Digital Storage Oscilloscope

Protek 5000 Series

The digital storage oscilloscopes of Protek 5000 series are six models; 5020, 5071, 5100, 5200, 5202 and 5302 which operates at 25, 70, 100, 200 and 300MHz bandwidth with different real-time sampling rate respectively. Auto measurement, FFT split screen functions, and useful PC interfaces with 7 inch clear LCD display provide a variety of convenient options with great value to users in every application.



Features

Bandwidth (25MHz ~ 300MHz / 2 channels)
 Real-Time Sampling Rate (500MSa/s and 1GSa/s)
 Equivalent-Time Sampling Rate (25GSa/s)
 7 inch TFT Color LCD Display
 Record Length up to 1M
 Dual Window Mode(Full Screen)
 USB Interface



Specification

		Protek 5020	Protek 5100	Protek 5200	Protek 5071	Protek 5202	Protek 5302		
1	Specifications	Bandwidth	25 MHz	100 MHz	200 MHz	70 MHz	200 MHz	300 MHz	
		Channels	2CH+1EXT						
		Real-Time Sampling Rate	500MSa/s(single channel), 250M Sa/s(double channel)			1G Sa/s, 500M Sa/s (single/double channel)	2G Sa/s(single channel), 1G Sa/s(double channel)		
		Equivalent-Time Sampling Rate	10G Sa/s	50G Sa/s	50G Sa/s	50G Sa/s	50G Sa/s	50G Sa/s	
2	Horizontal	Range	2.5ns/div-50s/div	2.5ns/div-50s/div	2.5ns/div-50s/div	5ns/div-50s/div	2.5ns/div-50s/div	1.0ns/div-50s/div	
		Scan	100ms-50s/div						
		Step	1-2.5-5 Order						
		Mode	Main,window Zoom,Scan,X-Y						
		Bandwidth Limit	20MHz(-3dB)(Except Protek5020)						
3	Vertical	Rise Time	<14ns	<3.5ns	<1.8ns	<5.8 ns	<1.7ns	<1.2ns	
		Maximum Input	±400V (DC+AC Pk-Pk)CAT I CAT II						
		Input Impedance	1MΩ 17pF					1MΩ 3pF,50Ω	
		Polarity	NORMAL/INVERT						
		Probe	1X/5X/10X/50X/100X/500X/1000X					1X/10X/100X/1000X	
4	Trigger	Source	CH1,CH2,EXT,EXT/5,AC Line						
		Trigger Sensitivity	±(0.2divxV/div)(within±4divisions from center of screen)EXT:±(6% of setting+40mV)EXT/5:±(6% of setting+200mV)						
		Mode	Auto, Normal, Single						
		Type	Edge,Pulse,Video,Slope,Alternative						
5	Other	Voltage Measurement	VPP,Vmax,Vmin,Vamp,Vtop,Vbase,Vavg,Mean,Vrms,Crms,FOV,FPRE,ROV,RPRE						
		Time Measurement	Period,Freq,+Wid,-Wid,Rise time,Fall time, BWid,+Dut,-Dut						
		Cursors Measurement	Manual mode,Track mode,Auto mode						
		Waveform Signal Process	CH1+/-CH2, CH1*CH2, CH1/CH2, FFT						
		Interface	Classical,Modern,Traditional,Succinct						
		Display	7 inches(178mm) color TFT(480*234)LCD						
		Display Resolution	480 horizontal by 234 vertical pixels						
		Power Source	AC 100-240V, 45Hz-440Hz,50VA Max						
		Dimension / Weight	323.1 x 135.1 x 157 mm(L*W*H) 2.5kg					358 x 156 x 118 mm(L*W*H) 4.3Kg	
		Memory Depth	32Kpts(single channel), 16Kpts(double channel)			40Kpt,20Kpts (single/double channel)	24Kpts(single channel), 12Kpts(double channel)		
		Vertical Sensitivity	2mv-10v/div(1-2-5 order)					2mv-5v/div(1-2-5 order)	
		Vertical Resolution	8bit						
		Coupling	AC,DC,LF rej,HF rej						
		Range	CH1,CH2:±6divisions from center of screen EXT:±1.2V EXT/5:±6V						
		Math Operation	+,-,*,/,FFT						
		Digital Filter	High-Pass,Low-Pass,Band-Pass,Band-Stop						
		Internal Storage	2groups of reference waveform, 20 groups of settings,20 groups of waveforms					2groups of reference waveforms, 20 groups of settings,20 groups of waveforms	
		External Storage	Bitmap save, CSV save, Waveform save,Setting save						
		Lasting	off, 1s, 2s, 5s,infinite						
		Language	English,French,German,Russian,Spanish,Chinese,Traditional Chinese,Portuguese, Japanese,Korean,Italian,Arabic						