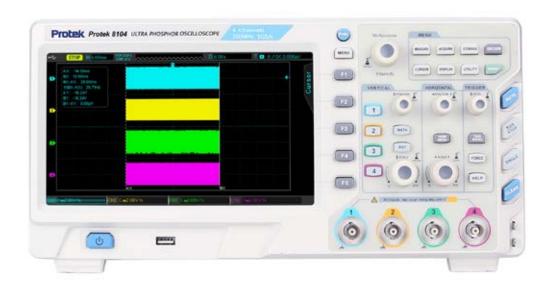
Digital Mixed Signal Oscilloscope

Protek 8000 Series



Features

The New Protek 8000 Series consist of two types of Line-up.

The first line-up is recommended for efficient and practical use. It offers clean & fast signal analysis, 8-inch High Define resolution display, high memory of 28Mpts for every channel, basic serial BUS decoding and 16-Channel digital signal analysis and arbitrary function generator. It is a reasonable products that can be effectively used in various measurement environments.

Specifications

Description	Protek 8102 Protek 8104			
Frequency Band width	100MHz			
Analog Channel	2CH	4CH		
Digital Channel	16Ch Digital Logid Analysis(Option)			
Real-Time Sampling	1GSa/s			
Memory Depth	28Mpts			
Display	8 inch High Define Resolution TFT LCD			
Digital Arbitrary Function Generator	Built-in 25MHz Function Generator(Option)			

Digital Mixed Signal Oscilloscope

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Features

The Second model in the dual line-up of Protek 8000 Series, it is a high-performance, high-end Oscilloscope. It is unique mixed signal oscilloscope with a frequency bandwidth up to 500MHz, high sampling rate of 4GSa/s and a large memory of 280Mpts. With a fast waveform capture rate of 200,000wfm/s, it provides stable signal acquisition with fast and excellent display for complete signal analysis.

In addition to analog signal test and data analysis functions, serial BUS trigger and decoding, logic circuit testing, and waveform recording and playback analysis with Super Fine Recorder make it deal for highly accurate embedded design and application development measurement environments.

Specification

Description	Protek 8204	Protek 8354	Protek 8504		
Frequency Band width	200 MHz	350 MHz	500 MHz		
Analog Channel	4 Ch				
Digital Channel	16 Channel(Option)				
Waveform Sensitivity level	256 Level				
Real-Time Sampling	4 GSa/s				
Memory Depth	280 Mpts				
Display	9 inch High Define Resolution TFT LCD				

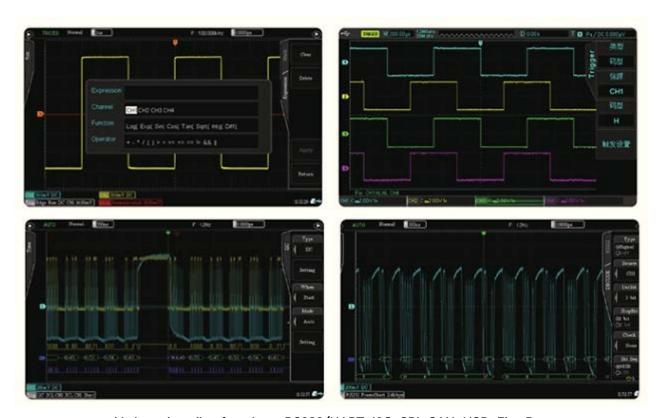
Specifications

- · · · -	Specifications						
Description	Protek 8102	Protek 8104	Protek 8204	Protek 8354	Protek 8504		
Freq Band width	100MHz	100MHz	200MHz	350MHz	500MHz		
Channel	2Ch + EXT		4Ch +	EXT			
Real-Time Sampling	1GSa/s 4GSa/s						
Waveform Capture Rage	50,000 wfms/s		200,000 wfms/s				
Input Impedance	(1MΩ±2%) // (20pF±3pF)		$(1MQ \pm 1\%) (15pF \pm 3pF, 50Q : 50Q \pm 1.5\%)$				
Memory Depth	28Mpts		280Mpts				
Rise Time	≤3.	≤3.5 ns ≤1.8 ns ≤1.0 ns		≤700ps			
Time base range	5ns/div -	~ 50s/div	2ns/div ~ 1,000s/div	1ns/div ~ 1,000s/div			
DC Accuracy	± 3 % of	Full Scale		± 2 % of Full Scale			
Max Waveform Storage	65,000 waveforms		200,000 waveforms				
Voltage base Range	1 mV/div ~ 20V/div (1M Ω) 1 mV/div ~ 5V/div (1M Ω) \pm 40V 1 mV/div ~ 1V/div (50 Ω) \pm 12V						
Vertical resolution	8 bit						
Trigger Mode	Edge, Pulse Width, Edge, Delay, Duration Vedio, Pattern, RS2	·	Edge, Pulse Width, Alternate, Runt, Nth Edge, Delay, Duration, Setup/Hold, Slope, Vedio, Pattern, RS232/UART, I2CSPI, CAN, USB, FlexRay				
BUS Decoding(Option)	Standard Parallel deco	_	Standard Parallel decoding : RS232/UART, I2C, SPI, CAN, USB, FlexRay				
Math function	A+B, A-B, A×B, A/B, FFT, Logic Operation(√), Editable Advanced						
Data Storage	256 Data(Waveform & Set value) 20 Data(Waveform & Set value)						
Direct Help Function	Yes Yes						
Max Input Voltage	CAT I 300Vrms, CAT II 100Vrms, Transient overvoltage 1000Vpk						
Automatic Measurement	Amplitude, Cycle M Cycle RMS, RMS, O Frequency, Cycle, R Positive Pulse, Nega	vershoot, Pre shoot, lise Time, Fall Time, ative Pulse, Positive the Duty Ratio, Delay ase A→B, Phase B→A,	Max, Min, Top, Bottom, Middle, PK-PK, Amplitude, Average, RMS, Cycle Average, Cycle RMS, Area, Cycle Area, Frequency, Period, Rising, Falling, +Width, -Width, BrstW, Overshoot, Preshoot, +Duty, -Duty, RiseDelay, FallDelay, Phase				
Others	16Ch Digital logic ana function generator module		USB to GPIB Convertor & LA module(Option)				
Storage Type	Setting ,Waveforms,BMP, Recording and PC Remote Program Data Acuisition						
Interface	USB Host&Device, Pa	ass/Fail, Trigger-Out, Out	USB Host&Device, LAN, Pass/Fail, Trigger-Out, AUX, VGA out, Clock In/Output port(10MHz)				
Display	8" TFT Display (800x480) 24bit		9" TFT Display (800x480) 24bit				
Dimensions & Weight	336mm(W) x 164m / ±3	nm(H) x 108mm(D) 3.5kg	456mm(W) x 210mm(H) x 120mm(D) / ±4.5kg				
Operating Condition	Temperature 0 ~ 40°C / Humidity : < 70%RH						
Standard products	Probe Kit Set, Power Cable, Manual						
Input Power	100V~240VACrms, 50Hz/60Hz						

Protek 8000 Series Digital Mixed Signal Oscilloscope

Measurement Application





Various decoding functions, RS232/UART, I2C, SPI, CAN, USB, Flex Ray