



## Features

- USB bus powering, and LAN remote control (optional)
- Max 1GS/s real-time sample rate
- Multi-trigger option : edge, video, slope, pulse, alternate
- USB isolation - less signal inference, more PC protection
- Ultra-thin body design, easy portability

## Applications

- Electronic circuit debugging
- Education and training
- Circuit testing
- Design and manufacture
- Automobile maintenance and testing



**Model P4017 Datasheet v1.0**  
USB PC Oscilloscope



# Model P4017

## Model P4017 USB PC Oscilloscope

### Performance Specifications

Bandwidth	100MHz	
Channel	4+1 (multi)	
Sample Rate	1GSa/s	
Horizontal Scale (s/div)	2ns/div~100s/div, step by 1~2~5	
Rise Time	≤3.5 ns	
Record Length	5M	
Input Coupling	DC, AC, GND	
Input Impedance	1MΩ±2%in parallel with10pF±5pF	
Channels Isolation	50Hz : 100 : 1, 10MHz : 40 : 1	
Max Input Voltage	40V (PK - PK) (DC+AC, PK - PK)	
DC Gain Accuracy	±3%	
DC Accuracy	Average≥16: ±(3% reading + 0.05div) for ΔT	
Probe Attenuation Factor	1X, 10X, 100X, 1000X	
LF Respond (AC, -3dB)	≥5Hz (at input, AC coupling, -3dB)	
Sampling Rate / Relay Time Accuracy	150ps	
Interpolation	sin(x) / x	
Interval (ΔT) Accuracy (full bandwidth)	Single: ± (1 interval time + 100ppm × reading + 0.6ns), Average >16: ±(1 interval time + 100ppm × reading + 0.4ns)	
Vertical Resolution (A/D)	8 bits (2 channels simultaneously)	
Vertical Sensitivity	5mV/div 5V/div	
Trigger Type	Edge, Pulse, Video, Slope, and Alternate	
Trigger Mode	Auto, Normal, and Single	
Trigger Level	±5 divisions from screen center	
Acquisition Mode	Sample, Peak Detect, and Average	
Line / Field Frequency (video)	NTSC, PAL, and SECAM standard	
Cursor Measurement	ΔV, and ΔT between cursors	
Automatic Measurement	Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, Delay A→B , Delay A→B , +Width, -Width, +Duty, -Duty	
Waveform Math	+, -, ×, ÷, invert, FFT	
Lissajous Figure	Bandwidth	full bandwidth
	Phase Difference	±3 degrees
Communication Interface	USB 2.0, LAN (optional)	
Multi-function Interface	Signal Type	synchronized input / output, Pass / Fail , external trigger input
	Level Standard	TTL
Power Supply	5.0V/1A	
Power Consumption	≤5W	
Dimensions (W × H × D)	190 × 120 × 18 (mm)	
Device Weight	0.3 kg	