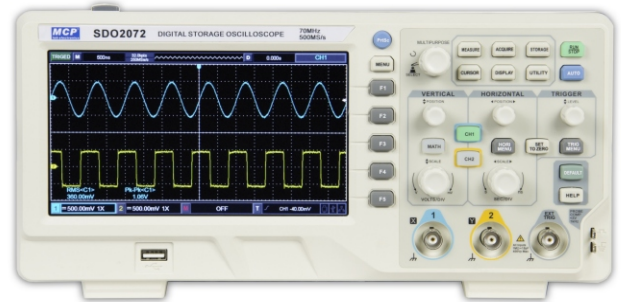


CLASS & ROOM TYPE DIGITAL STORAGE OSCILLOSCOPE

SDO 2000 SERIES  

Features

- . 70MHz/100MHz/150MHz/200MHz bandwidth
- . Independent doubletime base
- . AUTO' s strategy presetable
- . Lissajous figure supported
- . Automatic measurement of 34 waveform parameters
- . Automatic cursor tracking measurement function
- . 2 channels, low noise floor, wide vertical range: 1mV/div~20V/div
- . Built in FFT and digital filter
- . System software upgrade via USB drive
- . 7 inches TFT LCD, high resolution display 800×480
- . Delicate window extension function and precise analysis on waveform details and overview
- . Supports plug-and-play USB storage device; communication with and remote control of computer through the USB device

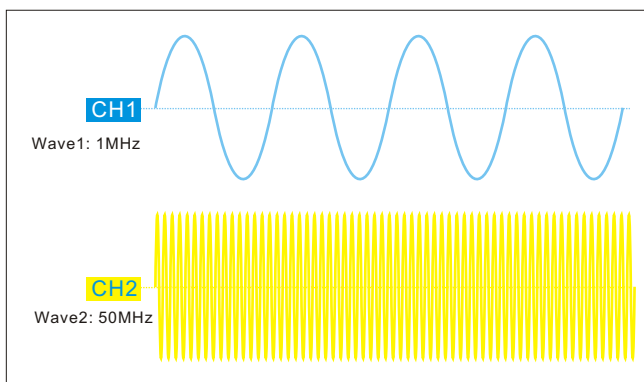


SDO 2072

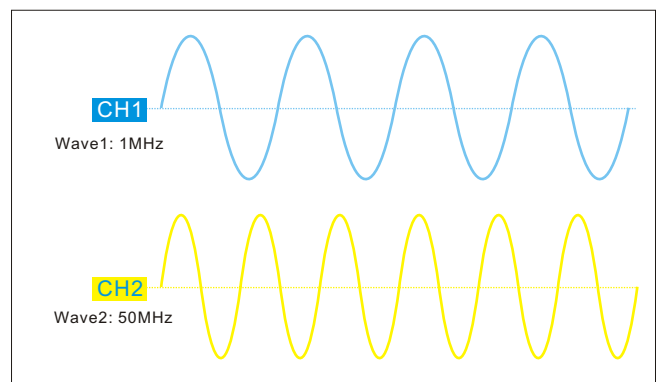
Technical Data	SDO2072	SDO2102X	SDO2152	SDO2202X
Real-time Sample Rate	500MS/s	1GS/s	500MS/s	1GS/s
Equivalent Sampling Rate	50GS/s	50GS/s	50GS/s	50GS/s
Average Sampling Times	2, 4, 8, 16, 32, 64, 128 and 256			
Input Channel Specifications				
Input coupling	DC, AC, GND			
Input Impedance	(1MΩ ±2%)/(18pF ±3pF)			
Probe attenuation coefficient	0.01×/0.02×/0.05×/0.1×/0.2×/0.5×/1×/2×/5×/10×/20× 50×/100×/200×/500×/1000×			
Maximum input voltage	300 Vrms, the transient over voltage is 1000Vpk.			
Horizontal System Specification				
Time-base scale	2ns/div-50s/div			
Waveform interpolation	Sin(x)/x			
Time-base accuracy	≤ ±(50 + 2×service life)ppm			
Record length	2×512k sampling point			
Storage depth	Single channel: 64kpts; Double channel: 32kpts			
Sampling rate and delay time accuracy	±50ppm (any time interval ≥ 1ms)			
Measurement accuracy of time interval (ΔT)	Single : ±(1 sampling time interval + 50ppm× reading + 0.6ns) >16 average values: ±(sampling time interval+50ppm×reading+0.4ns)			
Waveform capture rate	5,000 wfms/s			
Vertical System Specification				
Analog Bandwidth	70MHz	100MHz	150MHz	200MHz
Rise Time(Typical)	≤7ns	≤3.5ns	≤2.4ns	≤1.8ns
Channels	2	2	2	2
Analog-to-digital converter (A/D)	8 bits	8 bits	8 bits	8 bits
Deflection factor range	1mV/div~20V/div(1MΩ)			
Position range	≥ ±8div			
Selectable bandwidth limitation (Typical)	20MHz			
Low frequency response (AC Coupling, -3dB)	≤5Hz(above BNC)			
DC gain accuracy	5mV~20V/div: ≤ ±3%, 1mV~2mV/div: ≤ ±4%			
DC measurement accuracy	When vertical position is 0 and N ≥ 16: ± (4%×reading+0.1div+1mV) and selects 1mV~2mV/div; ± (3%×reading+0.1div+1mV) and selects 10mV~20V/div When vertical position is not 0 and N ≥ 16: ±(3%×(reading + vertical position reading) + (1%×vertical position reading)+0.2div); The setting from 5mV/div to 200mV/div plus 2mV, the setting value from 200mV/div to 20V/div plus 50mV			
Measurement accuracy of voltage difference (ΔV) (average sampling mode)	Under the same setting and environment conditions and after averaging the captured waveforms with a quantity of ≥ 16, the voltage difference (ΔV) between any two points on the waveform: ±(3%×reading+0.05div)			

CLASS & ROOM TYPE DIGITAL STORAGE OSCILLOSCOPE

Technical Data	SDO2072	SDO2102X	SDO2152	SDO2202X
Trigger System Specification				
Trigger sensitivity	≤1div			
Range of trigger level	Int: From the screen center ±10div; Ext: ±3V			
Trigger level accuracy (typical)	Int: ±(0.3div×V/div) (within±4 div from the screen center)			
(Signal with rising and falling time≥20ns)	Ext: ±(6% setting value+40mV)			
Pre-trigger capacity	Normal mode/scan mode, pre-trigger/delay trigger the pre-trigger depth is adjustable			
Hold-off range	80ns~1.5s			
Set the level to 50% (Typical)	Operate under the condition of input signal frequency of ≥50Hz			
Trigger mode	Auto, Normal, Single, Edge, Pulse, Video, Slope			
High-frequency hold off	Hold off signals over 80kHz			
Low-frequency hold off	Hold off signals below 80kHz			
Measurements				
Cursor	Manual mode	Voltage difference between cursors (ΔV), Time difference between cursors (ΔT), Reciprocal of ΔT (Hz) ($1/\Delta T$)		
	Track mode	Voltage value and time value of point of waveform		
	Auto mode	Cursor display is allowed on auto measurement mode		
Automatic measurement	Max, Min, High, Low, Ampl, Pk-Pk, Middle, Mean, CycMean, RMS, CycRMS, Period, Freq, Rise, Fall, RiseDelay, FallDelay, +Width, -Width, FRFR, FRFF, FFFR, FFFF, FRLF, FRLR, FFLR, FFLF, +Duty, -Duty, Area, CycArea, OverSht, PreSht and Phase.			
Measurement quantity	Display 5 types of measurement at the same time			
Measurement scope	Screen or cursor			
Measurement statistics	Average value, maximum value, minimum value and standard deviation			
Math				
Math operation	+, -, ×, ÷			
Window	Rectangle, Hanning, Blackman, Hamming			
Vertical scale	Vrms, dBVrms			
Digital filtering	Low pass, High pass, Band pass, Band reject			
Trigger frequency meter				
Reading resolution	6bits			
Trigger sensitivity	≤30Vrms			
Accuracy (Typical)	±51ppm (+1 character)			
Storage	Internal: 20 groups. USB: 200 groups			
Display	7-inch 800X480 color LCD (8X16 division)			
Interface	Standard: USB Host, USB Device, EXT Trig, Pass / Fail. Option: LAN			
Power	100V~240VACrms, 50/60Hz, CAT II			
Size	306mm(W)×138mm(H)×124mm(D)			
Weight	2.5kg			



**Normal oscilloscope
Same Time base**



**SDO2000 series
Time base independent**