

Handheld Oscilloscope

1GSa/s, 200MHz, 2GB Flash, Video Help

DSO1000B(V) Series



Feature

- 60MHz-200MHz Bandwidth with 2 Channels
- 1GS/s sample rate, and 6000 Counts DMM with analog bargraph.
- 1M Memory Depth.
- High Refresh Rate (2500 frames)
- Large 5.6 inch TFT Color LCD Display , High Resolution (640*480)
- Built-in multi-language Support
- Pass-Fail function compares a stored waveform to an unknown input
- USB 2.0 Host/Device interface, support removable disk, LAN Optional
- Built in Video Help and 2G SD flash memory within DSO1000BV Series.

Specification		DSO1202B/DSO1202BV	DSO1102B/DSO1102BV	DSO1062B/DSO1062BV
Horizontal	Model			
	Bandwidth	200MHz	100MHz	60MHz
	Real-time Sample Rate	1GSa/s		
	Equivalent Sample Rate	25GSa/s		
	Record Length(Sample Points)	Single-channel: Maximum 1M; Dual-channel: Maximum 512k		
	SEC/DIV Range	2nS/div-2000S/div (in a 2, 4, 8 sequence)		
Vertical	Delay Time Accuracy	500ps		
	A/D Converter	8-bit resolution		
	VOLTS/DIV Range	2mV/div~5V/div at input BNC		
	Position Range	±50V(5V/div),±40V(2V/div~500mV/div),±2V(200mV/div~50mV/div), ±400mV(20mV/div~2mV/div)		
	Rise Time at BNC	≤1.7ns	≤3.5ns	≤5.8ns
	DC Gain Accuracy	±4% for Sample or Average acquisition mode, 5mV/div to 2mV/div±3% for Sample or Average acquisition mode, 5V/div to 10mV/div		
Trigger	Trigger Sensitivity(Edge Trigger Type)	DC: CH1/CH2:1.5div from 10MHz to 100MHz; 2div from 100MHz to Full; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals above 80kHz; LF Reject: Attenuates signals below 150kHz; Noise Reject: Reduces trigger sensitivity	DC: CH1/CH2:1div from DC to 10MHz, 1.5div from 10MHz to full	
	Trigger Level Range	CH1,CH2: ±8 divisions from center of screen		
	Trigger Level Accuracy,typical (Accuracy is for signals having rise and fall times ≥20ns)	CH1,CH2: ±(0.3div×V/div) (within ±4 divisions from center of screen)		
	Holdoff Range	100ns-10s		
	Edge	Trigger on the rising or falling edge		
	Pulse Width	Trigger (when >,<=,≠) on positive or negative pulses. Pulse Width Range: 20ns-10s		
Trigger Type	Video	Trigger on an NTSC, PAL, or SECAM standard video signal Line Range: 1-525 (NTSC), 1-625 (PAL/SECAM)		
	Slope	Trigger (when >,<=,≠) on a positive or negative slope. Set Time: 20ns~10s		
	Overtime	From the rising or falling edge. Set Time: 20ns-10s		
	Alternate	Internal trigger on edge, pulse width, video or slope		
	Cursors	Manual: The difference between voltage cursors ΔV; the difference between time cursors ΔT; 1/ΔT calculated by Hz.Tracing: The voltage and time at a waveform point		
	Automatic	Pk-Pk, Max, Min, Mean, Cyc RMS, Frequency, Period, Rise Time, Fall Time, Positive Width, Negative Width		
Meter Mode	Max.Resolution	6,000 Counts		
	DMM Testing Modes	Voltage, Current, Resistance, Capacitance,Diode & Continuity		
	Max. Input Voltage	AC: 600V, DC: 800V		
	Max. Input Current	AC: 10A, DC: 10A		
	Input Impedance	10 MΩ		
	Type	Right angle 5.6 16-digit color LCD		
Display	Resolution	640*480 dots		
	Contrast	16 gears, with the progress bar to show adjustment		
	Interface	USB host and USB slave, Lan Optional		
	Power Supply	Voltage		
Mechanical	Size	DC Input:12--17VDC, 1500mA		
	Weight	245 x 163 x 52 (mm)		
		1.3KG (exclusive of packing and accessories)		

Handheld Oscilloscope

500MSa/s, 200MHz, 2CH DSO; 6000 Count DMM.

DSO1000 Series

Feature

- 200/60MHz bandwidth with 2 channels;
- 500MSa/s, 250MSa/s real time sampling rate;
- 50GSa/s equivalent time sampling rate;
- 6,000 count DMM resolution with AC at 600V/10A and DC at 800V/10A;
- Large 5.7 inch TFT color LCD display;
- Multi-language support;
- 1000 waveforms save and record;
- Labview\VB\VC second design instance.



Specification

	Model	DSO1060	DSO1200
Horizontal	Channel	2	2
	Bandwidth	60MHz	200MHz
	Rise Time	≤5.8ns	≤1.7ns
	Memory Depth (Sample Points)	32k at single channel, 16k at double channels	
	Real-time Sampling Rate	250MSa/s	500MSa/s
	Equivalent Sampling Rate	Equivalent max. sampling rate is 50GSa/s	
	Time Base Range	5ns/div~1000s/div	
Vertical	Time Base Precision	±50ppm	
	Input Impedance	Resistance: 1MΩ ; Capacitance: 15 pF	
	Input Sensitivity	10mV/div to 5V/div	
	Input Coupling	AC, DC and GND (ground level indicator)	
	Vertical Resolution	8 bits	
	Maximum Input	400V (DC+AC Peak)	
Trigger	Source	CH1, CH2	
	Mode	Edge, Pulse Width, Alternative, Video	
X-Y Mode	X-Axis Input	Channel 1	
	Y-Axis Input	Channel 2	
	Phrase Shift	Max. 3 degree	
Cursors and Measurement	Voltage Measuremet	Vpp, Vamp, Vmax, Vmin, Vtop, Vmid, Vbase, Vavg, Vrms, Vcrms, Preshoot, Overshoot	
	Time Measuremet	Frequency, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle	
	Delay Measuremet	Delay time from CH1 rising edge to CH2 rising edge Delay time from CH1 falling edge to CH2 falling edge	
	Cursors Measuremet	Manual, Track, Auto Measure Modes	
	Waveform Signal Process	CH1+/- CH2, CH1xCH2, CH1/CH2, FFT, Invert	
	Storage	15 Waveforms and Setups	
Meter Mode	Maximum Resolution	6,000 Counts	
	DMM Testing Modes	Voltage, Current, Resistance, Capacitance, Diode & Continuity	
	Maximum Input Voltage	AC: 600V, DC: 800V	
	Maximum Input Current	AC: 10A, DC: 10A	
	Input Impedance	10 MΩ	
Display	TFT LCD Type	5.7 inch with LED backlight display	
	Display Resolution	240 (vertical) x 320 (horizontal) dots	
Interface	USB	USB host / device 2.0 full speed supported	
	Optional	RS232, LAN	
Power Source	Line Voltage Range	AC 100V ~ 240V, 50Hz ~ 60Hz	
	Battery Power (Installed)	6 hours (Li-ion Battery)	
Mechanics	Dimension	Length: 245mm Width: 163mm Height: 52mm	
	Weight	1.2KGS (exclusive of packing and accessories)	
	Accessories	2pcs probes, 2pcs multimeter probes, 1pc power cable, 1pc USB cable	
Other	GND Reference	Oscilloscope and Multimeter Independence	

Handheld Oscilloscope

DSO/DMM/Generator/Counter/Analyzer

DSO8000 Series

Feature

- Five-in-one Handheld Oscilloscope:
Oscilloscope/DMM/ SpectrumAnalyzer/FrequencyCounter/Arbitrary Waveform generator.
- High Bandwidth 60MHz/100MHz/200MHz Oscilloscope, and 6000 Counts DMM.
- Arbitrary Waveform Generator: 25MHz arbitrary waveform output, 12 bits of vertical resolution.
- USB Host/Device 2.0 full-speed interface, RS-232/LAN Optional.

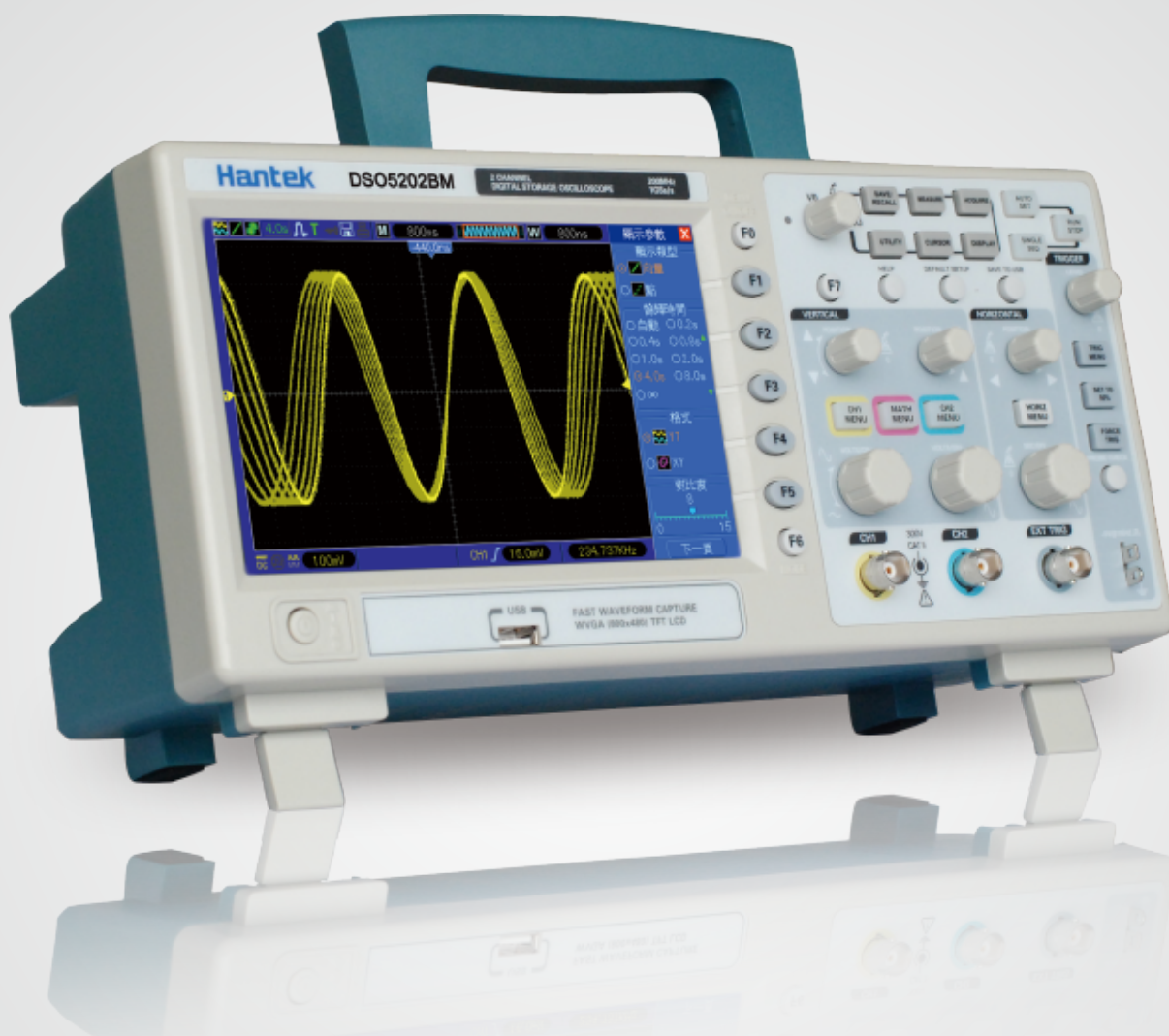


Specification		Model	DSO8202B	DSO8102B	DSO8062B	DSO8060
Horizontal	Channel		2			
	Bandwidth		200MHz	100MHz	60MHz	
	Rise Time		≤1.7ns	≤3.5ns	≤5.8ns	
	Real-Time Sampling Rate			1GSa/s		250MSa/s
	Equivalent Sampling Rate			25GSa/s		50GSa/s
	Memory Depth			1M		32K
	Time Base Range		5ns/div~1000s/div			
Vertical	Time Base Precision		±50ppm			
	Input Impedance		Resistance: 1M; Capacitance: 15pF			
	Input Sensitivity		2mV to 5V/div			10mV to 5V/div
	Input Coupling		AC, DC and GND			
	Vertical Resolution		8 bits			
	Maximum Input		400V (DC+AC Peak)			
	Trigger	Source		CH1, CH2, EXT		
Mode			Edge, Pulse Width, Alternative, Video			
X-Y Mode	X-Axis Input		Channel 1			
	Y-Axis Input		Channel 2			
	Phrase Shift		Max. 3 degree			
Measurement	Cursors		Manual: The difference between voltage cursors ΔV ; the difference between time cursors ΔT ; $1/\Delta T$ calculated by Hz.Tracing: The voltage and time at a waveform point			
	Automatic		Pk-Pk, Max, Min, Mean, Cyc RMS, Frequency, Period, Rise Time, Fall Time, Positive Width,Negative Width			
	Data Deal		CH+/- CH2, CH1x CH2, CH1/CH2, FFT, Invert			
Meter Mode	Internal Storage		15 Waveforms and Setups			
	Maximum Resolution		6,000 Counts			
	DMM Testing Modes		Voltage, Current, Resistance, Capacitance,Diode & Continuity			
	Maximum Input Voltage		AC: 600V, DC: 800V			
	Maximum Input Current		AC: 10A, DC: 10A			
Signal Source Mode	Input Impedance		10 MΩ			
	Waveform Impedance		DC~25MHz			
	DAC Clock		2K~200MHz adjustable			
	Frequency Resolution		0.1%			
	Channel Count		1CH Waveform Output			
	Waveform Depth		4KSa			
	Vertical Resolution		12bit			
	Frequency Stability		<30ppm			
	Waveform Range		±3.5V Max.			
	Output Impedance		50 Ω			
	Output Current		50mA I peak=50mA			
	System BW		25M			
Measure Frequency Channel	Harmonic Distortion		-50dBc(1KHz), -40dBc(10KHz)			
	Frequency Range		DC~60MHz			
	Input Range		400mVpp~18Vpp			
	Coupling Mode		DC			
	Frequency Measurement Accuracy		±Time Base Error ±1 Count			
Display	Input Impendence		>100KΩ			
	Type		Right angle 5.6", 16-digit color LCD			
	Resolution		640*480 dots		320*240 dots	
	Contrast		16 gears, with the progress bar to show adjustment			
Power Supply	Interface		USB host and USB slave, RS232/Lan Optional			
	Voltage		DC Input:12~17VDC, 1500mA			
Mechanical	Size		245 x 163 x 52 (mm)			
	Weight		1.3KG (exclusive of packing and accessories)			

Digital Storage Oscilloscope

1GSa/s, 200MHz, 2M Memory, 2GB Flash, Video Help

DSO5000BM(V) Series



Feature

- 200/100/60MHz bandwidths
- 1GSa/s Real Time sample rate
- Record length up to 2M
- Large (7.0-inch) color display, WVGA(800x480)
- Up to 2500wfms/s waveform update rate
- Trigger modes:edge,pulse width,slope,video,alternate trigger
- USB host and device connectivity, standard
- Provides software for PC real-time analysis

Specification		Model	DSO5202BM/DSO5102BM/DSO5062BM	DSO5202BMV/DSO5102BMV/DSO5062BMV
Horizontal	Bandwidth	200MHz/100MHz/60MHz		
	Real-time Sample Rate	1GSa/s		
	Equivalent Sample Rate	25GSa/s		
	Record Length(Sample Points)	Single-channel: Maximum 2M; Dual-channel:Maximum 1M (4K,16K,40K optional)		
	SEC/DIV Range	4nS/div-40S/div (in a 2, 4, 8 sequence)		
	Delay Time Accuracy	500ps		
	Video Help	Yes		
Vertical	Memory card	2GB		
	A/D Converter	8-bit resolution, each channel sampled simultaneously		
	VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC		
	Position Range	±50V(5V/div),±40V(2V/div ~ 500mV/div),±2V(200mV/div ~ 50mV/div), ±400mV(20mV/div ~ 2mV/div)		
	Rise Time at BNC	≤1.7ns / ≤3.5ns / ≤5.8ns		
	DC Gain Accuracy	±4% for Sample or Average acquisition mode, 5mV/div to 2mV/div		
		±3% for Sample or Average acquisition mode, 5V/div to 10mV/div		
Trigger	Trigger Sensitivity(Edge Trigger Type)	DC: CH1 / CH2 (Typical) 1div from DC to 10MHz; 1.5div from 10MHz to Full; EXT (Typical) 200mV from DC to 40MHz; EXT/5 (Typical) 1V from DC to 40MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals above 80kHz; LF Reject: Attenuates signals below 150kHz; Noise Reject: Reduces trigger sensitivity		
	Trigger Level Range	CH1,CH2: ±8 divisions from center of screen, EXT: ±1.2V EXT/5: ±6V		
	Trigger Level Accuracy,typical (Accuracy is for signals having rise and fall times ≥20ns)	CH1,CH2: ±(0.3div×V/div) (within ±4 divisions from center of screen), EXT: ±(6% of setting + 40mV), EXT/5: ±(6% of setting + 200mV)		
	Holdoff Range	100ns-10s		
	Edge	Trigger on the rising or falling edge		
Trigger Type	Pulse Width	Trigger (when >,<=,≠) on positive or negative pulses, Pulse Width Range: 20ns-10s		
	Video	Trigger on an NTSC, PAL, or SECAM standard video signal Line Range: 1-525 (NTSC), 1-625 (PAL/SECAM)		
	Slope	Trigger (when >,<=,≠) on a positive or negative slope Set Time: 20ns-10s		
	Overtime	from the rising or falling edge Set Time: 20ns-10s		
	Alternate	Internal trigger on edge, pulse width, video or slope		
Measurement	Cursors	Manual: The difference between voltage cursors ΔV; the difference between time cursors ΔT; 1/ΔT calculated by Hz.Tracing: The voltage and time at a waveform point		
	Automatic	Pk-Pk, Max, Min, Mean, Cyc RMS, Frequency, Period, Rise Time, Fall Time, Positive Width, Negative Width		
Display	Type	Right angle 7" TFT 16-digit color LCD		
	Resolution	800*480 dots		
	Contrast	16 gears, with the progress bar to show adjustment		
	Interface	USB host and USB slave		
Power Supply	Voltage	100-120VACRMS(±10%), 45Hz to 440Hz, CAT II		
	Power	120-240VACRMS(±10%), 45Hz to 66Hz, CAT II		
	Fuse	<30W		
Mechanical	Size	2A, T rating, 250V		
	Weight	Length: 313mm Width: 108mm Height: 142mm		
		2.08KG (exclusive of packing and accessories)		