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About Us

In 1999, the Hantek founders predicated the prosperous future of the instruments with USB interface, we commercially launched our first USB oscilloscope with model number as DSO-220 in 2001, with the advantages as plug & play, free power and convenient carrying, this product were accepted by European & American markets promptly.

Based on technology innovation, HANTEK has been continuously introduced several new products, current our products consist handheld oscilloscope, bench type digital storage oscilloscope, logic analyzer, arbitrary waveform generator, and so on.

Since establishment, providing good quality products to meet the needs of customers has become the guiding principle at HANTEK. Meanwhile, HANTEK is concentrating on develop more advanced products to the markets.

HANTEK is your partner to offer not only measuring instruments but also solution and service.

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Mixed Signal Oscilloscope

4/2 CH Oscilloscope, 2GSa/s Sample Rate, 8CH Logic Analyzer

MSO7000BL(G) Series



Feature

- 4/2 CH Oscilloscope + 8 CH Logic Analyzer + Arb. Waveform Generator
- 7 inch 64K color LCD, Resolution 800×480;
- Ultrathin design, handy volume, easily portable.

* Oscilloscope

- 60-300MHz Bandwidth; Real Sample Rate up to 2GSa/s;
- 32K Record Length;
- 32 kinds of Automotive measurement, with the FFT function;

* Logic Analyzer

- 8 channels which is able to setup threshold level individually;
- Real time sampling rate up to 1GSa/s;
- Powerful trigger function: edge, pulse width, code-type, duration, queen, repeat.

* Arb. Waveform Generator

- 25 MHz Arbitrary waveform output (sine wave up to 75 M);
- 12 Bit Pattern Generator;
- 200MS/s DDS; 12 bits of vertical resolution.



Specifications

	Model	MSO7304BLG MSO7302BLG	MSO7204BLG MSO7202BLG	MSO7104BLG MSO7102BLG	MSO7084BLG MSO7082BLG
Horizontal	Bandwidth	300MHz	200MHz	100MHz	80MHz
	Sampling Rate Range	2GS/s			
	Memory Depth (Sample Points)	32K			
	SEC/DIV Range	2ns/div-40s/div		4ns/div-40s/div	
	Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals			
Vertical	Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6 ns) > 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4 ns) Sampling interval = SEC/DIV+200			
	A/D Converter	8-bit resolution, each channel sampled simultaneously			
	VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC			
	Position Range	±400mV (2mV/div ~20mV/div); ±2V (50mV/div ~200mV/div) ±40V (500mV/div ~2V/div); ±50V (5V/div)			
	Optional Analog Bandwidth Limit (typical)	20MHz			
	Low Frequency Response (-3db)	≤10Hz at output BNC			
	Rise Time	≤1.2ns	≤1.8ns	≤3.5ns	≤4.4ns
Trigger	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div			
	Trigger Type	Video Trigger, Edge Trigger, Pulse Width Trigger, Slope Trigger, Overtime Trigger, Code-type, Duration, Queue, Repeat, Alternate Trigger			
	Trigger Sensitivity (Edge Trigger Type)	DC(Intel): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 300MHz; DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 300MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals when above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.			
	Trigger Level Range	CH1, CH2, (CH3, CH4): ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V			
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2, (CH3, CH4): ±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)			
	Holdoff Range	100ns- 10s			
Acquisition	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz			
	Acquisition Modes	Normal, Peak Detect, and Average			
	Acquisition Rate, typical	Up to 2000 waveforms per second per channel (Normal acquisition mode, no measurement)			
	Normal, Peak Detect	Upon single acquisition on all channels simultaneously			
Input	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128			
	Input Coupling	DC, AC or GND			
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF			
	Probe Attenuation	1X, 10X,			
	Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X			
Measurement	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)			
	Cursors	The difference between voltage cursors ΔV; The difference between time cursors ΔT; Reciprocal of ΔT in Hertz (1/ΔT).			
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPRESshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF			
	Display	7 inch 64K color LCD, 800x480 pixels, adjustable (16 gears) with the progress bar			
Other	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II			
	Power	< 30W			
	Fuse	2A, T rating, 250V			
Logic Analyzer	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)			
	Sampled Channels	8			
	Max. Input Impedance	200K (C=10p)			
	Input Voltage Range	0~3V			
	Logic Threshold Range	0~3V			
	Max. Sample Rate	1GSa/s			
	Compatible Input	TTL, CMOS, ECL			
	Sample Depth	32K			
Arbitrary Waveform Generator	Measurement	Period and Frequency			
	Waveform Frequency	DC~25MHz			
	DAC clock	2K~200MHz adjustable			
	Frequency Resolution	0.1%			
	Waveform Depth	4KSa			
	Vertical Resolution	12bit			
Frequency Stability	<30ppm				

Mixed Signal Oscilloscope

4/2 CH Oscilloscope, 2GSa/s Sample Rate, 8CH Logic Analyzer

MSO7000BL Series

Feature

- 4/2 CH Oscilloscope + 8 CH Logic Analyzer.
- 7 inch 64K color LCD, Resolution 800×480;
- 32K Record Length.
- 60-300MHz Bandwidth; Real Sample Rate up to 2GSa/s;
- 32 kinds of Automotive measurement, with the FFT function;
- Powerful trigger function: edge, pulse width, code-type, duration etc.

Specifications

Model		MSO7304BL MSO7302BL	MSO7204BL MSO7202BL	MSO7104BL MSO7102BL	MSO7084BL MSO7082BL
Horizontal	Bandwidth	300MHz	200MHz	100MHz	80MHz
	Sampling Rate Range	2GS/s			
	Memory Depth (Sample Points)	32K			
	SEC/DIV Range	2ns/div-40s/div		4ns/div-40s/div	
Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals				
A/D Converter	8-bit resolution, each channel sampled simultaneously				
VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC				
Vertical	Position Range	±400mV (2mV/div ~20mV/div); ±2V (50mV/div ~200mV/div)			
	Optional Analog Bandwidth Limit (typical)	20MHz			
	Low Frequency Response (-3db)	≤10Hz at output BNC			
	Rise Time	≤1.2ns	≤1.8ns	≤3.5ns	≤4.4ns
	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div			
Trigger	Trigger Type	Video Trigger, Edge Trigger, Pulse Width Trigger, Slope Trigger, Overtime Trigger, Code-type, Duration, Queue, Repeat, Alternate Trigger			
	Trigger Sensitivity (Edge Trigger Type)	DC(Intelnal): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 300MHz; DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 300MHz; DC(EXT/5): 1V from DC to 100MHz, 1.75V from 100MHz to 300MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals when above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.			
	Trigger Level Range	CH1, CH2, (CH3, CH4): ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V			
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2, (CH3, CH4): ±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)			
	Holdoff Range	100ns- 10s			
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz			
Acquisition	Acquisition Modes	Normal, Peak Detect, and Average			
	Acquisition Rate, typical	Up to 2000 waveforms per second per channel (Normal acquisition mode, no measurement)			
	Normal, Peak Detect	Upon single acquisition on all channels simultaneously			
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128			
Input	Input Coupling	DC, AC or GND			
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF			
	Probe Attenuation	1X, 10X,			
	Supported Probe Attenuation Factor	1X, 10X,100X, 1000X			
Measurement	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)			
	Cursors	The difference between voltage cursors ΔV; The difference between time cursors ΔT; Reciprocal of ΔT in Hertz (1/ΔT).			
	Automotic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPREShoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF			
Other	Display	7 inch 64K color LCD, 800x480 pixels, adjustable (16 gears) with the progress bar			
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II			
	Power	< 30W			
	Fuse	2A, T rating, 250V			
	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)			
Logic Analyzer	Sampled Channels	8			
	Max. Input Impedance	200K (C=10p)			
	Input Voltage Range	0~3V			
	Logic Threshold Range	0~3V			
	Max. Sample Rate	1GSa/s			
	Compatible Input	TTL, CMOS, ECL			
	Sample Depth	32K			
Measurement	Period and Frequency				

Mixed Signal Oscilloscope

4CH Oscilloscope, 8CH Logic Analyzer

MSO5074F(G)/DSO5000E Series

Feature

- 4 Channels Oscilloscope; 60-300MHz Bandwidth;
- 32K/1M Record Length; 1GS/s / 2GS/s Sample Rate;
- 32 automotive measurement; with the FFT function;
- 8 Channels Logic Analyzer,
- 7 inch 64K color LCD, high resolution 800x480;
- 25MHz Arb. Waveform Generator;

Specifications

Model		DSO5304E	DSO5204E	DSO5104E	DSO5064E	MSO5074FG	MSO5074F	
Horizontal	Bandwidth	300MHz	200MHz	100MHz	60MHz	70MHz		
	Sampling Rate Range	2GSa/s				1GS/s		
	Memory Depth (Sample Points)	32K				1M		
	SEC/DIV Range	2ns~40s/div		4ns/div~40s/div				
	Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals						
	Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6 ns) > 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4 ns) Sampling interval = SEC/DIV×200						
Vertical	A/D Converter	8-bit resolution, each channel sampled simultaneously						
	VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC						
	Position Range	±400mV (2mV/div ~20mV/div); ±2V (50mV/div ~200mV/div) ±40V (500mV/div ~2V/div); ±50V (5V/div)						
	Optional Analog Bandwidth Limit (typical)	20MHz						
	Low Frequency Response (-3db)	≤10Hz at output BNC						
	Rise Time	1.2ns	1.7ns	3.5ns	5.8ns	≤5ns		
Trigger	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div						
	Trigger Type	Video, Edge, Pulse Width, Slope, Overtime, Code-type, Duration, Queue, Repeat, Alternate						
	Trigger Level Range	CH1, CH2, CH3, CH4: ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V						
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2, CH3, CH4: ±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)						
	Holdoff Range	100ns- 10s						
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz						
Acquisition	Normal, Peak Detect	Upon single acquisition on all channels simultaneously						
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128						
Input	Input Coupling	DC, AC or GND						
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF						
	Probe Attenuation	1X, 10X,						
	Supported Probe Attenuation Factor	1X, 10X,100X, 1000X						
Measurement	Cursors	The difference between voltage cursors ΔV; the difference between time cursors ΔT; 1/ΔT calculated by Hz.						
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPREShoot, BWIDTH, FRF, FFR, LRR, LRF, LFF						
General Feature	Display	7 inch 64K color LCD, 800x480 pixels, adjustable (16 gears) with the progress bar						
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II						
	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)						
	Sampled Channels	8				8		
Logic Analyzer	Max. Input Impedance	200K (C=10p)				200K (C=10p)		
	Input Voltage Range	0~3V				0~3V		
	Logic Threshold Range	0~3V				0~3V		
	Max. Sample Rate	1GSa/s				500MSa/s		
	Compatible Input	TTL, CMOS, ECL				TTL, CMOS, ECL		
	Sample Depth	32K				1M		
	Measurement	Period and Frequency				Period and Frequency		
	Waveform Frequency	DC~25MHz				-		
Arbitrary Waveform Generator	DAC clock	2K~200MHz adjustable				-		
	Frequency Resolution	0.1%				-		
	Waveform Depth	4KSa				-		
	Vertical Resolution	12bit				-		
	Frequency Stability	<30ppm				-		

Mixed Signal Oscilloscope

2CH Oscilloscope, 8CH Logic Analyzer

MSO4000BL(G) Series

Feature

- 2CH Oscilloscope+8CH 500MSa/s Logic Analyzer;
- 500MSa/s Sample rate.
- 7 inch 64K color LCD, high resolution 800x480;
- 60MHz-100MHz Bandwidth; 16K Record Length;
- 32 automotive measurement; with the FFT function;
- 25MHz Arb. Waveform Generator(G Series)

Specifications

Model		MSO4102BL MSO4102BLG	MSO4082BL MSO4082BLG	MSO4062BL MSO4062BLG
Horizontal	Bandwidth	100MHz	80MHz	60MHz
	Sampling Rate Range	500MSa/s	500MSa/s	500MSa/s
	Memory Depth (Sample Points)	16K		
	SEC/DIV Range	4ns/div-40s/div		
	Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals		
Vertical	Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6 ns) > 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4 ns) Sampling interval = SEC/DIV+200		
	A/D Converter	8-bit resolution, each channel sampled simultaneously		
	VOLTS/DIV Range	10mV/div ~ 5V/div at input BNC		
	Position Range	±400mV (10mV/div ~20mV/div); ±2V (50mV/div ~200mV/div) ±40V (500mV/div ~2V/div); ±50V (5V/div)		
	Optional Analog Bandwidth Limit (typical)	20MHz		
Trigger	Low Frequency Response (-3db)	≤10Hz at output BNC		
	Rise Time	3.5ns	4.4ns	5.8ns
	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div		
	Trigger Type	Edge, Pulse Width, Overtime, Alternate, Code-type, Duration, Queue, Repeat		
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen; EXT: ±1.2V; EXT/10: ±6V		
Acquisition	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2: ±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/10: ±(6% of setting+200mV)		
	Holdoff Range	100ns- 10s		
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz		
	Normal, Peak Detect	Upon single acquisition on all channels simultaneously		
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128		
Input	Input Coupling	DC, AC or GND		
	Probe Attenuation	1X, 10X,		
Measurement	Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X		
	Cursors	The difference between voltage cursors ΔV; the difference between time cursors ΔT; 1/ΔT calculated by Hz.		
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPRESshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF		
Other	Display	7 inch 64K color LCD, 800x480 pixels, adjustable (16 gears) with the progress bar		
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II		
Logic Analyzer	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)		
	Sampled Channels	8		
	Max. Input Impedance	200K (C=10p)		
	Input Voltage Range	-60V~60V		
	Logic Threshold Range	-8V~8V		
	Max. Sample Rate	500MSa/s		
	Compatible Input	TTL, CMOS, ECL		
	Sample Depth	16K		
Arbitrary Waveform Generator (with G Series)	Measurement	Period and Frequency		
	Waveform Frequency	DC~25MHz		
	DAC clock	2K~200MHz adjustable		
	Frequency Resolution	0.1%		
	Waveform Depth	4KSa		
Vertical Resolution	12bit			
Frequency Stability	<30ppm			

Mixed Signal Oscilloscope

2CH Oscilloscope, 8CH Logic Analyzer

MSO4000CL(G) Series

Feature

- 2CH Oscilloscope+8CH 500MSa/s Logic Analyzer;
- 1GSA/s Sample rate.
- 7 inch 64K color LCD, high resolution 800x480;
- 50MHz-200MHz Bandwidth; 16K Record Length;
- 32 automotive measurement; with the FFT function;
- 25MHz Arb. Waveform Generator(G Series)

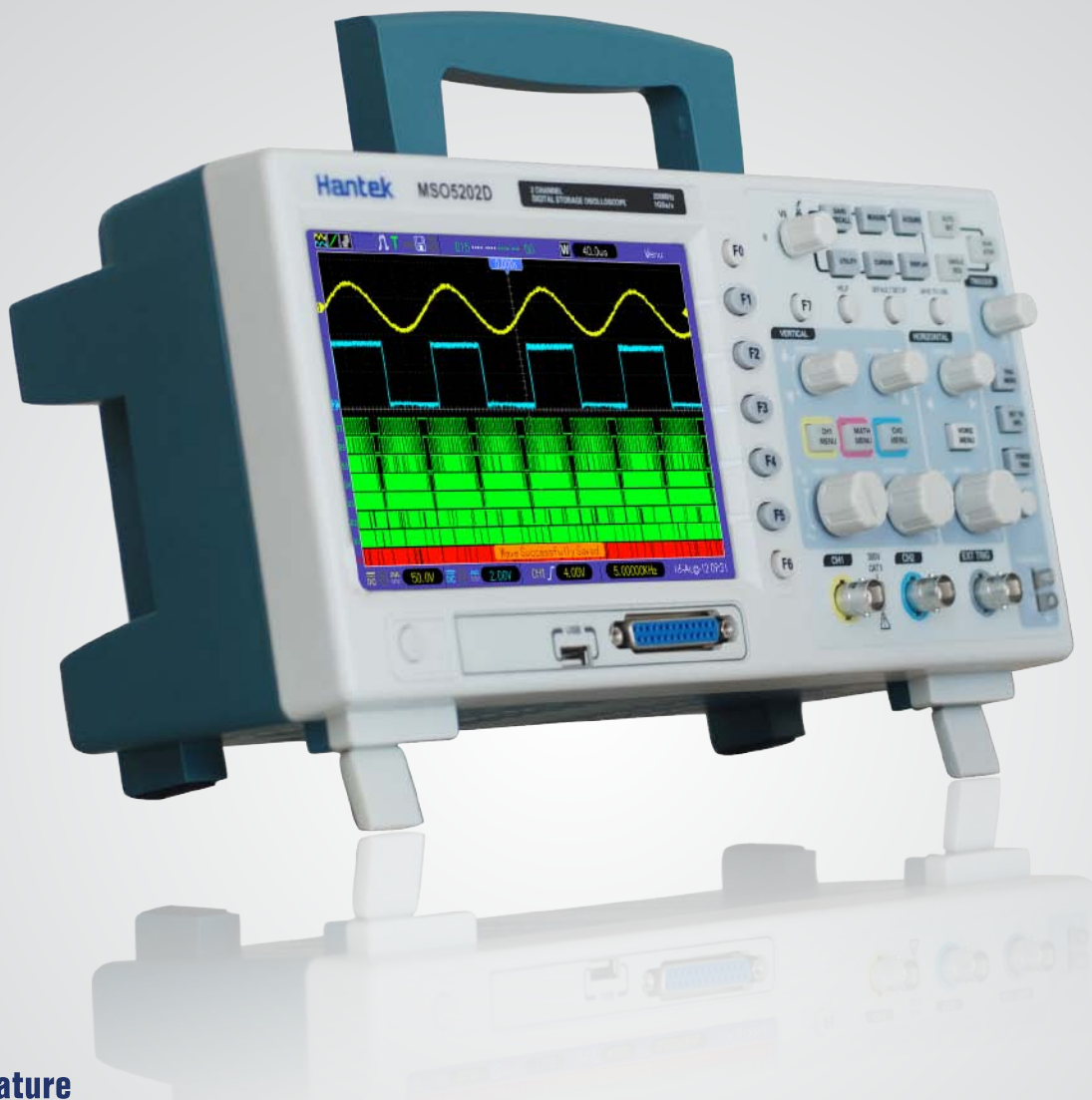
Specifications

Model		MSO4202CL MSO4202CLG	MSO4102CL MSO4102CLG	MSO4072CL MSO4072CLG	MSO4052CL MSO4052CLG
Horizontal	Bandwidth	200MHz	100MHz	70MHz	50MHz
	Sampling Rate Range	1GSA/s	1GSA/s	1GSA/s	1GSA/s
	Memory Depth (Sample Points)	16K			
	SEC/DIV Range	2ns/div-40s/div		4ns/div-40s/div	
	Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals			
Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6 ns)				
	> 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4 ns)				
Vertical	A/D Converter	8-bit resolution, each channel sampled simultaneously			
	VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC			
	Position Range	±400mV (2mV/div ~20mV/div); ±2V (50mV/div ~200mV/div)			
	Optional Analog Bandwidth Limit (typical)	±40V (500mV/div ~2V/div); ±50V (5V/div)			
	Low Frequency Response (-3db)	20MHz			
	Rise Time	1.7ns	3.5ns	5ns	7ns
	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div			
Trigger	Trigger Type	Video, Edge, Pulse Width, Slope, Overtime, Code-type, Duration, Queue, Repeat, Alternate			
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen; EXT: ±1.2V; EXT/10: ±6V			
	Typical accuracy for signals having rise and fall time ≥ 20ns	CH1, CH2: ±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/10: ±(6% of setting+200mV)			
	Holdoff Range	100ns- 10s			
Acquisition	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz			
	Normal, Peak Detect	Upon single acquisition on all channels simultaneously			
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128			
Input	Input Coupling	DC, AC or GND			
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF			
	Probe Attenuation	1X, 10X,			
Measurement	Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X			
	Cursors	The difference between voltage cursors ΔV; the difference between time cursors ΔT; 1/ΔT calculated by Hz.			
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPRESshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF			
Other	Display	7 inch 64K color LCD, 800x480 pixels, adjustable (16 gears) with the progress bar			
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II			
	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)			
Logic Analyzer	Sampled Channels	8			
	Max. Input Impedance	200K (C=10p)			
	Input Voltage Range	-60V~60V			
	Logic Threshold Range	-8V~8V			
	Max. Sample Rate	500MSa/s			
	Compatible Input	TTL, CMOS, ECL			
	Sample Depth	16K			
Arbitrary Waveform Generator (with G Series)	Measurement	Period and Frequency			
	Waveform Frequency	DC~25MHz			
	DAC clock	2K~200MHz adjustable			
	Frequency Resolution	0.1%			
	Waveform Depth	4KSa			
	Vertical Resolution	12bit			
Frequency Stability	<30ppm				

Mixed Signal Oscilloscope

16 CH logic analyzer, 2 CH oscilloscope, External trigger.

MSO5000D Series



Feature

- 16 channels logic analyzer + 2 channels oscilloscope + external trigger.
- Big and clear display (7.0-inch color LCD, high resolution 800 x 480), clear lifelike waveform display.
- Ultrathin design, handy volume, easily portable.

* Oscilloscope Function

- Bandwidth 60-200MHz ; Real time sampling rate up to 1GSa/s; 1M record length.
- Powerful trigger function.
- More than 30 kinds of automatic measurement function.

* Logic Analyzer Function

- 16 channels divided into 2 groups which is able to setup threshold level individually.
- Real time sampling rate up to 500MSa/s.
- Powerful trigger function: edge, pulse width, code-type, duration, queen, repeat.

Specification		MSO5202D	MSO5102D	MSO5062D
Horizontal	Model			
	Bandwidth	200MHz	100MHz	60MHz
	Sampling Rate Range	Max. 1GS/s		
	Waveform Interpolation	(sin x) / x		
	Memory Depth (Sample Points)	Single-channel: maximum 1M; Dual-channel: maximum 512K (4K, 16K, 40K optional)		
	SEC/DIV Range	8ns/div-40s/div (stepping in a sequence: 2,4,8)		
	Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals		
	Delta Time Measurement Accuracy (full bandwidth)	Single, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6 ns) > 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4 ns) Sampling interval = SEC/DIV+200		
	A/D Converter	8-bit resolution, each channel sampled simultaneously		
	VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC		
Vertical	Position Range	±400mV (2mV/div ~20mV/div); ±2V (50mV/div ~200mV/div) ±40V (500mV/div ~2V/div); ±50V (5V/div)		
	Optional Analog Bandwidth Limit (typical)	20MHz		
	Low Frequency Response (-3db)	≤10Hz at output BNC		
	Rising Time at output BNC (typical)	≤1.8ns	≤3.5ns	≤5.8ns
	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div		
Trigger	Trigger Sensitivity (Edge Trigger Type)	DC(CH1, CH2): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz; DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 200MHz; DC(EXT/5): 1V from DC to 100MHz, 1.75V from 100MHz to 200MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals when above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.		
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V		
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2: ±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)		
	Holdoff Range	100ns-10s		
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz		
	Video Trigger	CH1, CH2: The amplitude of 2 points peak-peak; EXT: 400mV; EXT/5: 2V; Trigger on an NTSC, PAL, or SECAM standard video signal; line Range: 1-525(NTSC), 1-625(PAL/SECAM)		
	Edge Trigger	Trigger on the rising or the falling edge		
	Pluse Width Trigger	Trigger(when >, <, ≠, =) on positive or negative pulses, Pluse Width Range: 20ns-10s		
	Slope Trigger	Trigger(when >, <, ≠, =) on positive or negative slope, set time: 20ns-10s		
	Overtime Trigger	From the rising or falling edge, set time: 20ns-10s		
	Alternate Trigger	Internal trigger on edge, pluse width, video or slope		
	Code-type	D0-D15 select code-type (H, L, X)		
	Duration	D0-D15 select persist time and trigger when (data terminate, data start, and data delay)		
	Queue	D0-D15 select specific data index (0-3) and code-type (H, L, X)		
	Repeat	D0-D15 select code-type (H, L, X) and repeat times		
Acquisition	Sample, peak value detect	Upon single acquisition on all channels simultaneously		
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128		
	Input Coupling	DC, AC or GND		
Input	Input Impedance, DC Coupling	1MΩ±2% for 20pF±3 pF		
	Support Probe Attenuation Coefficients	1X, 10X, 100X, 1000X		
Measurement	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)		
	Cursors	The difference between voltage cursors ΔV; the difference between time cursors ΔT; 1/ΔT calculated by Hz.		
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPRESshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF		
Other	Display	7" TFT, 64K color LCD, 800x480 dots, 16 gears with the progress bar to show adjustment		
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II		
	Size	313mm(L)x108mm(W)x142mm(H)		
	Weight	2.08KG(Not including the package and accessories)		
Logic Analyzer Specification	Sampled Channels	16 (divided into 2 groups)		
	Max. Input Impedance	200K (C=10p)		
	Input Voltage Range	-60V~60V		
	Logic Threshold Range	-8V~8V		
	Max. Sample Rate	500MHz		
	Compatible Input	TTL, CMOS, ECL		
	Sample Depth	512K Sample		
Measurement	Period and Frequency			

Digital Storage Oscilloscope

4/2 CH Oscilloscope, 2GSa/s Sample Rate

DSO7000B Series

Feature

- 300/200/100/80/60MHz Bandwidth; 2GSa/s Sample Rate;
- 4/2 Channel Oscilloscope; 64K Record Length;
- 7 inch 64K color LCD display, Resolution 800x480;
- 32 kinds of Automotive measurement, with FFT function;
- Powerful trigger function: Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.



Specifications

Model		DSO7304B DSO7302B	DSO7204B DSO7102B	DSO7104B DSO7102B	DSO7064B DSO7082B
Horizontal	Bandwidth	300MHz	200MHz	100MHz	60MHz/80MHz
	Sampling Rate Range	2GSa/s			
	Memory Depth (Sample Points)	64K			
	SEC/DIV Range	2ns/div-40s/div		4ns/div-40s/div	
	Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals			
	Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6ns) > 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4ns) Sampling interval = SEC/DIV×200			
Vertical	A/D Converter	8-bit resolution, each channel sampled simultaneously			
	VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC			
	Position Range	±400mV (2mV/div ~20mV/div); ±2V (50mV/div ~200mV/div) ±40V (500mV/div ~2V/div); ±50V (5V/div)			
	Optional Analog Bandwidth Limit (typical)	20MHz			
	Low Frequency Response (-3db)	≤10Hz at output BNC			
	Rise Time	1.2ns	1.7ns	3.5ns	5.8ns/4.4ns
	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div			
Trigger	Trigger Type	Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger			
	Trigger Sensitivity (Edge Trigger Type)	DC(Intenal): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 300MHz; DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 300MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals when above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.			
	Trigger Level Range	CH1, CH2, (CH3, CH4): ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V			
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2, (CH3, CH4): ±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)			
	Holdoff Range	100ns - 10s			
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz			
	Acquisition	Normal, Peak Detect	Upon single acquisition on all channels simultaneously		
Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128				
Input	Input Coupling	DC, AC or GND			
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF			
	Probe Attenuation	1X, 10X,			
	Supported Probe Attenuation Factor	1X, 10X,100X, 1000X			
Measurement	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)			
	Cursors	Manual: The difference between voltage cursors ΔV; The difference between time cursors ΔT; Reciprocal of Δt in Hertz (1/ Δt); Tracing: The voltage and time at a waveform point.			
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPRESHoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF			
	Waveform Signal Process	+,-, x,÷, FFT, Invert			
General Feature	Display	7 inch 64K color LCD, 800x480 pixels, Adjustable (16 gears) with the progress bar			
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ; 120-240VACRMS(±10%),45Hz to 66Hz, CAT II			
	Power	<30W			
	Fuse	2A, T rating, 250V			
	Size	313mm(L)x108mm(W)x142mm(H);			
	Weight	2.08KG(without Packing)			

Digital Storage Oscilloscope

2CH Oscilloscope, 1G/500MSa/s Real Sample Rate

DSO4000 Series

Feature

- 20MHz-200MHz Bandwidth; 500MSa/s(DSO4000B),1GSa/s(DSO4000C) Sample Rate;
- 2 Channel Oscilloscope; 40K Record Length;
- 7 inch 64K color LCD display, Resolution 800x480;
- 32 kinds of Automotive measurement, with FFT function;
- Powerful trigger function: Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.

Specifications

Model		DSO4202C	DSO4102B	DSO4102C	DSO4082B	DSO4072C	DSO4062B	DSO4052C	DSO4042B	DSO4032C	DSO4022B	
Horizontal	Bandwidth	200MHz	100MHz	100MHz	80MHz	70MHz	60MHz	50MHz	40MHz	30MHz	20MHz	
	Sampling Rate Range	500MSa/s	1GSa/s	500MSa/s	1GSa/s	500MSa/s	1GSa/s	500MSa/s	1GSa/s	500MSa/s	1GSa/s	
	Memory Depth (Sample Points)	40K										
	SEC/DIV Range	2ns/div-40s/div					4ns/div-40s/div					
	Sampling Rate and Delay Time Accuracy	±50ppm in any ≥1ms time intervals										
Vertical	Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6ns) > 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4ns) Sampling interval = SEC/DIV+200										
	A/D Converter	8-bit resolution, each channel sampled simultaneously										
	VOLTS/DIV Range	2mV/div ~ 5V/div at input BNC										
	Position Range	±400mV (2mV/div ~20mV/div); ±2V (50mV/div ~200mV/div) ±40V (500mV/div ~2V/div); ±50V (5V/div)										
	Optimal Analog Bandwidth Limit (typical)	20MHz										
	Low Frequency Response (-3db)	≤10Hz at output BNC										
	Rise Time	1.7ns	3.5ns	4.4ns	5.8ns	8.8ns	17.5ns					
	Vertical Gain Accuracy	±3% for sample or average acquisition mode, 5V/div to 10mV/div; ±4% for sample or average acquisition mode, 5mV/div to 2mV/div										
	Voltage Measurement Repeatability Average Acquisition Mode	In the same settings and environmental conditions, acquisition ≥ the voltage increment between any two groups average of 16 above waveforms : ± (3% × readings + 0.05 div)										
	Trigger Type	Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger										
Trigger	Trigger Sensitivity (Edge Trigger Type)	DC(Intenal): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz; DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 200MHz; DC(EXT/10): 1V from DC to 100MHz, 1.75V from 100MHz to 200MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals when above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.										
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen; EXT: ±1.2V; EXT/10: ±6V										
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2:±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/10: ±(6% of setting+200mV)										
	Holdoff Range	100ns - 10s										
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz										
Acquisition	Normal, Peak Detect Average	Upon single acquisition on all channels simultaneously										
	Input Coupling	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128										
	Supported Probe Attenuation Factor	DC, AC or GND										
Input	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF										
	Probe Attenuation	1X, 10X,										
	Max. Input Voltage	1X, 10X,100X, 1000X										
Measurement	Cursors	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×) The difference between voltage cursors ΔV; The difference between time cursors ΔT; Reciprocal of ΔT in Hertz (1/ΔT).										
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVshoot, RPREshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF										
	Display	7 inch 64K color LCD, 800x480 pixels, adjustable (16 gears) with the progress bar										
Other	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II										
	Power	< 30W										
	Fuse	2A, T rating, 250V										
	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)										

Digital Storage Oscilloscope

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

DSO5000BM(V) Series



Feature

- 200/100/60MHz Bandwidth; 1GMSa/s Sample Rate;
- 2 Channel Oscilloscope; 2M Record Length;
- 7 inch 64K color LCD display, Resolution 800x480;
- 2GB SD Card, With the Video Help Function(DSO5000BMV);
- 32 kinds of Automotive measurement, with FFT function;
- Ultrathin design, handy volume, easily portable;
- Powerful trigger function: Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.

Specification

	Model	DSO5202BM DSO5202BMV	DSO5102BM DSO5102BMV	DSO5062BM DSO5062BMV
Horizontal	Bandwidth	200MHz	100MHz	60MHz
	Sampling Rate Range	1GSa/s		
	Equivalent Sample Rate	25GSa/s		
	Memory Depth (Sample Points)	Single-channel: Maximum 2M; Dual-channel:Maximum 1M (4K,16K,40K optional)		
	SEC/DIV Range	2ns/div~40s/div	4ns/div-80s/div	
Vertical	Delay Time Accuracy	±50ppm in any ≥1ms time intervals		
	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
Trigger	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 Sensitivity(Edge Trigger Type)	DC(Intelnal): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz; DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 200MHz; DC(EXT/5): 1V from DC to 100MHz, 1.75V from 100MHz to 200MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals when above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.		
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V		
	Typical accuracy (for signals having rise and fall time ≥ 20ns)	CH1, CH2:±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)		
	Holdoff Range	100ns - 10s		
Acquisition	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz		
	Normal, Peak Detect	Upon single acquisition on all channels simultaneously		
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128		
Input	Input Coupling	DC, AC or GND		
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF		
	Probe Attenuation	1X, 10X,		
	Supported Probe Attenuation Factor	1X, 10X,100X, 1000X		
Measurement	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)		
	Cursors	The difference between voltage cursors ΔV; The difference between time cursors ΔT; Reciprocal of ΔT in Hertz (1/ΔT).		
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPRESshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF		
	Display	7 inch 64K color LCD, 800x480 pixels, adjustable (16 gears) with the progress bar		
Other	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ;120-240VACRMS(±10%),45Hz to 66Hz, CAT II		
	Power	< 30W		
	Fuse	2A, T rating, 250V		
	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)		

Digital Storage Oscilloscope

1GSa/s, 200MHz, 1M Record Length

DSO5000B Series

Feature

- 200/100/60MHz Bandwidth; 1GSa/s Sample Rate;
- 2 Channel Oscilloscope; 1M Record Length;
- 7 inch 64K color LCD display, Resolution 800x480;
- 32 kinds of Automotive measurement, with FFT function;
- Powerful trigger function: Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.

Specification

	Model	DSO5202B	DSO5102B	DSO5062B
Horizontal	Bandwidth	200MHz	100MHz	60MHz
	Sampling Rate Range		1GSa/s	
	Equivalent Sample Rate		25GSa/s	
	Memory Depth (Sample Points)		1M	
	SEC/DIV Range	2ns/div~40s/div		4ns/div-80s/div
	Delay Time Accuracy	±50ppm in any ≥1ms time intervals		
	Delta Time Measurement	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6ns)		
	Accuracy (full bandwidth)	> 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4ns) Sampling interval = SEC/DIV×200		
Vertical	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(Intelnal): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz; DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 200MHz; DC(EXT/5): 1V from DC to 100MHz, 1.75V from 100MHz to 200MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals when above 80KHz; LF Reject: The same as DC coupling limit when frequency above 150KHz; Attenuates signals when below 150KHz.		
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V		
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2:±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)		
	Holdoff Range	100ns - 10s		
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz		
	Trigger Type	Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.		
	Normal, Peak Detect	Upon single acquisition on all channels simultaneously		
Acquisition	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128		
	Input Coupling	DC, AC or GND		
Input	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF		
	Probe Attenuation	1X, 10X,		
	Supported Probe Attenuation Factor	1X, 10X,100X, 1000X		
	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)		
Measurement	Cursors	The difference between voltage cursors ΔV; The difference between time cursors ΔT; Reciprocal of ΔT in Hertz (1/ΔT).		
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPREShoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF		
	Display	7 inch 64K color LCD; 800x480 pixels; Adjustable (16 gears) with the progress bar		
Other	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT II ; 120-240VACRMS(±10%),45Hz to 66Hz, CAT II		
	Power	< 30W		
	Fuse	2A, T rating, 250V		
	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)		

Digital Storage Oscilloscope

1GSa/s, 200MHz, 40K Record Length

DSO5000P Series

Feature

- 200/100/70MHz Bandwidth; 1GSa/s Sample Rate;
- 2 Channel Oscilloscope; 40K Record Length;
- 7 inch 64K color LCD display, Resolution 800x480;
- 32 kinds of Automotive measurement, with FFT function;
- Powerful trigger function: Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.

Specification

	Model	DSO5202P	DSO5102P	DSO5072P
Horizontal	Bandwidth	200MHz	100MHz	70MHz
	Sampling Rate Range		1GSa/s	
	Equivalent Sample Rate		25GSa/s	
	Memory Depth (Sample Points)		40K	
	SEC/DIV Range	2ns/div~40s/div		4ns/div-80s/div
	Delay Time Accuracy	±50ppm in any ≥1ms time intervals		
	Delta Time Measurement Accuracy (full bandwidth)	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6ns) > 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4ns) Sampling interval = SEC/DIV÷200		
Vertical	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	5ns
	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(Intelnal): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz; DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 200MHz; DC(EXT/5): 1V from DC to 100MHz, 1.75V from 100MHz to 200MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals when above 80KHz; LF Reject: The same as DC coupling limit when frequency above 150KHz; Attenuates signals when below 150KHz.		
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V		
	Typical accuracy for signals having rise and fall time ≥ 20ns	CH1, CH2:±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)		
	Holdoff Range	100ns - 10s		
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz		
	Trigger Type	Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.		
Acquisition	Normal, Peak Detect	Upon single acquisition on all channels simultaneously		
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128		
Input	Input Coupling	DC, AC or GND		
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF		
	Probe Attenuation	1X, 10X,		
	Supported Probe Attenuation Factor	1X, 10X,100X, 1000X		
Measurement	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)		
	Cursors	The difference between voltage cursors ΔV; The difference between time cursors ΔT; Reciprocal of ΔT in Hertz (1/ΔT).		
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPREShoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF		
Other	Display	7 inch 64K color LCD; 800x480 pixels; Adjustable (16 gears) with the progress bar		
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz. CAT II ; 120-240VACRMS(±10%),45Hz to 66Hz. CAT II		
	Power	< 30W		
	Fuse	2A, T rating, 250V		
Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)			

Function/Arbitrary Waveform Generator

2 Channel, 16 Bits, 250 MSa/s, 64 Million Points, Isolated Channels

HDG2000C Series



Feature

- 16 bits resolution, 250MSa/s Sample rate, 2 Channels;
- Channel output isolated from the chassis. 64 Mpts Max. arbitrary waveform Memory Depth.
- 100 MHz, 70 MHz, 50MHz or 30 MHz maximum sine output frequency.
- 16 channels digital output, together with the analog channel can rebuild the more mixed signals in daily practice
- Support AM, FM, PM, ASK, FSK, PSK and PWM modulations
- TCXO timebase standard, OCXO optional for ultra-high stability
- 7 inch, 16K true color TFT display, WVGA(800X480)
- Plenty of interfaces: USB Host, USB Device, LAN



Specification		Model	HDG2102C	HDG2072C	HDG2052C	HDG2032C
Main Feature	Channel		2	2	2	2
	Waveform Length		64M	64M	64M	64M
	Bandwidth		100MHz	70MHz	50MHz	30MHz
	Frequency		1uHz~100MHz	1uHz~70MHz	1uHz~50MHz	1uHz~30MHz
	Sample Rate		250MSa/s			
	Voltage resolution		16Bit			
	SD Card		2GB			
	Digital Output Mode		16Channels			
	Isolation		Between the Channel and GND			
	Waveform		Sine, Square, Ramp, Pulse, Noise, Sinc, Exponential Fall, ECG, Gauss, Haver Sine, Lorentz, Dual-Tone, DC			
Frequency Characteristics	Sine		1uHz – 100MHz	1uHz – 70MHz	1uHz – 50MHz	1uHz – 30MHz
	Square		1uHz – 40MHz	1uHz – 35MHz	1uHz – 30MHz	1uHz – 25MHz
	Pulse		1uHz – 30MHz	1uHz – 25MHz	1uHz – 20MHz	1uHz – 15MHz
	Ramp		1uHz – 4MHz	1uHz – 3MHz	1uHz – 2MHz	1uHz – 1MHz
	White Noise		80MHz	60MHz	60MHz	60MHz
	Harmonic		1uHz – 30MHz	1uHz – 25MHz	1uHz – 20MHz	1uHz – 15MHz
	Arb. Waveform		1uHz – 30MHz	1uHz – 25MHz	1uHz – 20MHz	1uHz – 15MHz
	Resolution		1uHz			
	Accuracy		±2ppm, 18 C~28 C			
	Square	Rise /Fall time		Typical (1Vpp) <10ns	Typical (1Vpp) <12ns	Typical (1Vpp) <12ns
Overshoot			Typical Value (100KHz, 1Vpp) <3%			
Duty Cycle			≤10MHz: 20.0%~80.0%; 10MHz~40MHz: 40.0%~60.0%; >40MHz: 50.0% (fixed)			
Non-symmetry			1% of period+5ns			
Ramp	Jitter (rms)		Typical (1MHz, 1Vpp, 50Ω), ≤5MHz: 2ppm+500ps; > 5MHz: 500ps			
	Linearity		≤1% (Typical, 1kHz, 1VPP, Symmetry 100%)			
Pulse	Symmetry		0% - 100%			
	Period		40ns – 1000000s	50ns – 1000000s	60ns – 1000000s	70ns – 1000000s
	Pulse		≥12ns	≥14ns	≥16ns	≥18ns
	Leading/Trailing Edge Time		≥8ns	≥9ns	≥10ns	≥11ns
Arbitrary	Overshoot		Typical (1Vpp) <3%			
	Jitter (rms)		Typical (1MHz, 1Vpp, 50Ω), ≤5MHz: 2ppm+500ps; > 5MHz: 500ps			
	Waveform Length		64M Point			
	Vertical Resolution		16Bit			
Amplitude Characteristic	Sample Rate		250MSa/s			
	Rise/Fall time		Typical (1Vpp):<6ns			
	Jitter		Typical (1MHz, 1Vpp, 50Ω), ≤5MHz: 2ppm+500ps; > 5MHz: 500ps			
	Amplitude Range		≤20MHz: 1mVpp - 20Vpp; ≤60MHz: 1mVpp -15Vpp; ≤80MHz: 1mVpp -10Vpp; ≤90MHz: 1mVpp - 5Vpp; ≤100MHz: 1mVpp - 2Vpp			
Offset Characteristic	Accuracy		Typical (1kHz Sine, 0V deviation, >10mVpp, Auto), ±1% of setting ±2mVpp			
	Resolution		1mv or 4 digits			
	Isolation		<-80dB			
Modulation Characteristic	Impedance		50Ω(Typical)			
	Range		Voffset < Vmax – Vpp/2			
	Accuracy		±(1% of setting + 5mV + 0.5% of amplitude)			
	Modulation Type		AM FM PM 2ASK 2FSK 2PSK PWM			
Burst Characteristic	Carrier Waveforms		Sine, Square, Ramp, Arb. (except DC)			
	AM Source		Internal/External			
	FM Modulating Waveforms		Sine, Square, Ramp, Noise, Arb			
	PM Frequency		1Hz - 500KHz			
	Depth		0% – 120%			
	2ASK Carrier Waveforms		Sine, Square, Ramp, Arb. (except DC)			
	2FSK Source		Internal/External			
	2PSK Modulating Waveforms		Square of 50% duty cycle(PWM:Sine, Square, Ramp, Noise, Arb.)			
Sweep Characteristic	PWM Frequency		1Hz - 500KHz			
	Burst Count		2000000000			
	Gated Source		External trigger			
General Specifications	Trigger Source		Internal, External or Manual			
	Direction		Up			
	Type		linear			
	Sweep time		280000s			
General Specifications	Hold/Return time		280000s			
	Trigger Source		Internal, External, Manual			
	Mark		Falling Edge of Sync signal(programmable)			
	Interface		USB host, USB Device, SD Card			
	Display		7" 64K Color TFT Display, 800*480 resolution.			
	Power Voltage		100-120VACRMS(±10%), 45Hz to 440Hz, CAT II ; 120-240VACRMS(±10%), 45Hz to 66Hz, CAT II			
Power Consumption		<60W				
Weight		3Kg				

Function/Arbitrary Waveform Generator

2 Channel, 16 Bits, 250 MSa/s, 64M Million Points

HDG2000B Series

Feature

- 16 bits resolution, 250MSa/s Sample rate, 2 Channels;
- 100/80/60/30/20/10/5MHz maximum sine output frequency.
- 16 channels digital output, together with the analog channel can rebuild the more mixed signals in daily practice
- 16K Max. arbitrary waveform Memory Depth
- Support AM, FM, PM, ASK, FSK, PSK and PWM modulations

Specification

Model		HDG2102B	HDG2082B	HDG2062B	HDG2032B	HDG2022B	HDG2012B	HDG2002B	
Main Feature	Channel	2	2	2	2	2	2	2	
	Waveform Length	64M	64M	64M	64M	64M	64M	64M	
	Bandwidth	100MHz	80MHz	60MHz	30MHz	20MHz	10MHz	5MHz	
	Frequency	1uHz-100MHz	1uHz-80MHz	1uHz-60MHz	1uHz-30MHz	1uHz-20MHz	1uHz-10MHz	1uHz-5MHz	
	Sample Rate	250MSa/s							
Frequency Characteristics	Voltage resolution	16Bit							
	Digital Output Mode	16Channels							
	Waveform	Sine, Square, Ramp, Pulse, Noise, Sinc, Exponential Fall, ECG, Gauss, Haver Sine, Lorentz, Dual-Tone, DC							
	Sine	1uHz- 100MHz	1uHz - 80MHz	1uHz - 60MHz	1uHz - 30MHz	1uHz - 20MHz	1uHz - 10MHz	1uHz - 5MHz	
	Square	1uHz - 40MHz	1uHz - 35MHz	1uHz - 30MHz	1uHz - 25MHz	1uHz - 20MHz	1uHz - 10MHz	1uHz - 5MHz	
	Pulse	1uHz - 30MHz	1uHz - 25MHz	1uHz - 25MHz	1uHz - 20MHz	1uHz - 20MHz	1uHz - 10MHz	1uHz - 5MHz	
	Ramp	1uHz - 4MHz	1uHz - 3MHz	1uHz - 3MHz	1uHz - 2MHz	1uHz - 2MHz	1uHz - 1MHz	1uHz - 1MHz	
	White Noise	80MHz	60MHz	60MHz	30MHz	20MHz	10MHz	5MHz	
	Harmonic/ Arbitrary Resolution	1uHz - 30MHz	1uHz - 25MHz	1uHz - 25MHz	1uHz - 20MHz	1uHz - 20MHz	1uHz - 10MHz	1uHz - 5MHz	
	Accuracy	±2ppm, 18 C ~ 28 C							
Square	Rise /Fall time(Typical)	<10ns	<11ns	<12ns	<14ns	<16ns	<18ns	<18ns	
	Overshoot	Typical Value (100KHz, 1Vpp) <3%							
	Duty Cycle	≤10MHz: 20.0%~80.0%; 10MHz-40MHz: 40.0%~60.0%; >40MHz: 50.0% (fixed)							
Ramp	Non-symmetry	1% of period+5ns							
	Linearity	≤1% (Typical, 1kHz, 1VPP, Symmetry 100%)							
Pulse	Symmetry	0% - 100%							
	Period	33.3ns-1millions	40ns-1millions	40ns-1millions	50ns-1millions	50ns-1millions	100ns-1millions	200ns-1millions	
	Pulse	≥12ns	≥14ns	≥14ns	≥16ns	≥16ns	≥18ns	≥18ns	
	Leading/Trailing Edge Time	≥8ns	≥9ns	≥10ns	≥10ns	≥11ns	≥11ns	≥12ns	
	Overshoot	Typical (1Vpp) <3%							
Amplitude Characteristic	Amplitude Range	≤20MHz: 1mVpp - 20Vpp; ≤60MHz: 1mVpp - 15Vpp; ≤80MHz: 1mVpp - 10Vpp; ≤90MHz: 1mVpp - 5Vpp; ≤100MHz: 1mVpp - 2Vpp							
	Accuracy	Typical (1kHz Sine, 0V deviation, >10mVpp, Auto), ±1% of setting ±2mVpp							
	Resolution	1mv or 4 digits							
	Isolation	<-80dB							
	Impedance	50Ω(Typical)							
Modulation Characteristic	Modulation Type	AM, FM, PM, 2ASK, 2FSK, 2PSK, PWM							
	Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)							
	AM Source	Internal/External							
	FM Modulating Waveforms	Sine, Square, Ramp, Noise, Arb							
	PM Frequency	1Hz - 500KHz							
	Depth	0% - 120%							
	2ASK Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)							
	2FSK Source	Internal/External							
	2PSK Modulating Waveforms	Square of 50% duty cycle(PWM:Sine, Square, Ramp, Noise, Arb.)							
	PWM Frequency	1Hz - 500KHz							
Burst Characteristic	Burst Count	2000000000							
	Gated Source	External trigger							
	Trigger Source	Internal, External or Manual							
Sweep Characteristic	Direction	Up							
	Type	linear							
	Sweep/Hold/Return time	280000s							
	Trigger Source	Internal, External, Manual							
General Specifications	Mark	Falling Edge of Sync signal(programmable)							
	Display	7" 64K Color TFT Display, 800*480 resolution.							
	Weight	3Kg							

Function/Arbitrary Waveform Generator

2 Channel, 500 MSa/s, 16K Waveform Length, 160MHz

HDG6000B Series

Feature

- 16 bits resolution, 500MSa/s Sample rate, 2 Channels;
- 60-160MHz maximum sine output frequency. Support AM, FM, PM, ASK, FSK, PSK and PWM modulations
- 16 channels digital output, together with the analog channel can rebuild the more mixed signals in daily practice
- 7 inch 16K true color LCD, WVGA(800X480)

Specification

	Model	HDG6162B	HDG6132B	HDG6112B	HDG6082B	HDG6062B
Main Feature	Channel	2	2	2	2	16K
	Waveform Length	16K	16K	16K	16K	60MHz
	Bandwidth	160MHz	130MHz	110MHz	80MHz	1uHz~60MHz
	Frequency	1uHz~160MHz	1uHz~130MHz	1uHz~110MHz	1uHz~80MHz	
	Sample Rate	500MSa/s				
	Voltage resolution	16Bit				
	SD Card	2GB				
	Digital Output Mode	16Channels				
	Waveform	Sine, Square, Ramp, Pulse, Noise, Sinc, Exponential Fall, ECG, Gauss, Haver Sine, Lorentz, Dual-Tone, DC				
Frequency Characteristics	Sine	1uHz – 160MHz	1uHz – 130MHz	1uHz – 110MHz	1uHz – 80MHz	1uHz – 60MHz
	Square	1uHz – 45MHz	1uHz – 40MHz	1uHz – 40MHz	1uHz – 35MHz	1uHz – 30MHz
	Pulse	1uHz – 40MHz	1uHz – 35MHz	1uHz – 25MHz	1uHz – 20MHz	1uHz – 15MHz
	Ramp	1uHz – 5MHz	1uHz – 4MHz	1uHz – 3MHz	1uHz – 2MHz	1uHz – 1MHz
	White Noise	160MHz	130MHz	110MHz	60MHz	60MHz
	Harmonic	1uHz – 40MHz	1uHz – 35MHz	1uHz – 25MHz	1uHz – 20MHz	1uHz – 15MHz
	Arb. Waveform	1uHz – 40MHz	1uHz – 35MHz	1uHz – 25MHz	1uHz – 20MHz	1uHz – 15MHz
	Resolution	1uHz				
	Accuracy	±2ppm, 18 C~28 C				
	Square	Rise /Fall time	Typical (1Vpp) <8ns	Typical (1Vpp) <12ns	Typical (1Vpp) <12ns	Typical (1Vpp) <14ns
Overshoot		Typical Value (100KHz, 1Vpp) <3%				
Duty Cycle		≤10MHz: 20.0%~80.0%; 10MHz~40MHz: 40.0%~60.0%; >40MHz: 50.0% (fixed)				
Ramp	Non-symmetry	1% of period+5ns				
	Linearity	≤1% (Typical, 1kHz, 1VPP, Symmetry 100%)				
Pulse	Symmetry	0% - 100%				
	Period	25ns ~ 1millions	28.57ns ~ 1millions	40ns ~ 1millions	50ns ~ 1millions	66.67ns ~ 1millions
	Pulse	≥10ns	≥10ns	≥12ns	≥15ns	≥18ns
	Leading/Trailing Edge Time	≥5ns	≥6ns	≥8ns	≥10ns	12ns
Amplitude Characteristic	Overshoot	Typical (1Vpp) <3%				
	Amplitude Range	≤20MHz: 1mVpp~0Vpp; ≤60MHz: 1mVpp~15Vpp; ≤80MHz: 1mVpp~10Vpp; ≤90MHz: 1mVpp~5Vpp; ≤120MHz: 1mVpp~2Vpp; ≤160MHz: 1mVpp~1Vpp				
	Accuracy	Typical (1kHz Sine, 0V deviation, >10mVpp, Auto), ±1% of setting ±2mVpp				
	Resolution	1mv or 4 digits				
	Isolation	<-80dB				
Modulation Characteristic	Impedance	50Ω(Typical)				
	Modulation Type	AM FM PM 2ASK 2FSK 2PSK PWM				
	Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)				
	AM Source	Internal/External				
	FM Modulating Waveforms	Sine, Square, Ramp, Noise, Arb				
	PM Frequency	1Hz - 500KHz				
	Depth	0% – 120%				
	2ASK Carrier Waveforms	Sine, Square, Ramp, Arb. (except DC)				
	2FSK Source	Internal/External				
	2PSK Modulating Waveforms	Square of 50% duty cycle(PWM:Sine, Square, Ramp, Noise, Arb.)				
Burst Characteristic	PWM Frequency	1Hz - 500KHz				
	Burst Count	2000000000				
	Gated Source	External trigger				
Sweep Characteristic	Trigger Source	Internal, External or Manual				
	Direction	Up				
	Type	linear				
	Sweep/Hold/Return time	280000s				
General Specifications	Trigger Source	Internal, External, Manual				
	Mark	Falling Edge of Sync signal(programmable)				
	Display	7" 64K Color TFT Display, 800*480 resolution.				
	Power Voltage	100-120VACRMS(±10%), 45Hz to 440Hz, CAT II ; 120-240VACRMS(±10%), 45Hz to 66Hz, CAT II				
Weight	3Kg					

Function/Arbitrary Waveform Generator

20MHz Bandwidth, 180MSa/s Sample Rate, 2 Channel

HDG1000A Series



Feature

- Direct Digital Synthesis(DDS) technology, 2 independent output channels
- 3.5-inch TFT display, English/Chinese menu
- Minimum stable output waveform: 1mV(50Ω)
- Frequency sweep, amplitude sweep, burst and A B add functions
- Over voltage, over current, output short-circuit and reverse voltage protections
- Optional parts: RS232, USB interface, frequency counter

Specifications

Model	HDG1022A	HDG1012A
TTL Output Characteristics	Waveform characteristics Frequency characteristics Amplitude characteristics	Square, rise/fall times≤20ns same as sine wave of channel A TTL, CMOS compatible, low level<0.3V, high level>4V
Common Characteristics	Power source	Voltage: AC220V (1±10%), AC110V (1±10%) (Pay attention to the position of voltage selection switch); Frequency: 50Hz (1±5%) Power: <45VA
	Environment	Temperature: 0~40 C Humidity: <80%
	Operation characteristics	Key operation for all functions, menu display, rotary dial adjustment
	Display	TFT display, 320*240, English, Chinese (simplified), Chinese (traditional)
Optional Parts Characteristics	Mechanical	415mm×295mm×195mm; 3.5kg
	Manufacturing technology	Surface Mount Technology, Integrated Circuit. High reliability and stability.
	Remote interface	USB Universal Serial Bus Interface; RS232 serial interface
	Frequency counter	RS232 serial interface
	Power amplifier	Testing frequency range: 1Hz~200MHz; Input signal amplitude: 100mVpp~20Vpp Max. output power: 7W (8Ω), 1W (50Ω) Max. output voltage: 22Vpp Frequency bandwidth: 1Hz-200kHz

Specifications

Model		HDG1022A	HDG1012A
Frequency range(sine)		40μHz~20MHz	40mHz~10MHz
Output Characteristics of Channel A			
Waveform Characteristics	Waveform type	sine, square, pulse, DC	Sine, Square, Triangle, Ramp, Pulse etc.
	Waveform length	4 ~ 16000 points	1024 points
	Sample rate	180MSa/s	100MSa/s
	Waveform amplitude resolution	10bits	8bits
	Sinusoidal harmonic rejection	≥50dBc (≤1MHz), ≥ 40dBc (1MHz ~ 20MHz), ≥30dBc (20MHz ~ 40MHz)	≥40dBc (<1MHz), ≥35dBc (1MHz~20MHz)
	Sine wave total distortion	≤0.5 % (20Hz ~ 200kHz)	≤1% (20Hz~200kHz)
	Pulse and square rise/fall time	≤20ns	≤35ns
	Pulse and square overshoot	≤5%	≤10%
	Square wave duty cycle	50%	1%~99%
	Pulse wave duty cycle	0.1%~ 99.9%	
Frequency Characteristics	Frequency range	sine:40μHz ~ 2kHz, resolution: 40μHz; 2kHz ~ the Max.frequency, resolution: 40 mHz; square: 40μHz~20MHz; pluse: 40μHz~10MHz	sine: 40mHz~Max.frequency (MHz); square: 40mHz~5MHz; other waveforms: 40mHz~1MHz;
	Frequency resolution		40mHz
	Frequency accuracy	±(5×10-5+40mHz)	±(5×10-5+40mHz)
	Frequency stability	±5×10-6/3 hours	±5×10-6/3 hours
	Amplitude range	2mVpp ~ 20Vpp (high impedance)	2mVpp~20Vpp 40mHz~10MHz (high impedance) 2mVpp~15Vpp 10MHz~15MHz (high impedance) 2mVpp~8Vpp 15MHz~20MHz (high impedance)
Amplitude Characteristics	Amplitude resolution	20mVpp (amplitude>2Vpp), 2mVpp (amplitude<2Vpp)	20mVpp (amplitude>2Vpp), 2mVpp (amplitude<2Vpp)
	Amplitude accuracy	±(1%+2mVrms) (high impedance, RMS, 1kHz)	±(1%+2mVrms) (high impedance, RMS, 1kHz)
	Amplitude stability	±0.5%/3 hours	±0.5%/3 hours
	Amplitude flatness	±5% (frequency<1MHz), ±10% (1MHz ~ 10MHz), ±20% (frequency between 10MHz ~ 60MHz)	±5% (frequency<10MHz), ±10% (frequency >10MHz)
	Output impedance	50Ω	50Ω
	Sine wave amplitude setting range (50Ω)	1mVpp ~ 10Vpp, when output frequency ≤10MHz; 1mVpp ~ 5Vpp, when output frequency ≤40MHz; 1mVpp ~ 2Vpp, when output frequency ≥ 40MHz;	
	Amplitude setting range (high impedance)	2mVpp ~ 20Vpp, when output frequency ≤10MHz; 2mVpp ~ 10Vpp, when output frequency ≤40MHz; 2mVpp ~ 4Vpp, when output frequency ≥40MHz ;	
Offset Characteristics	Offset range	±10V (high impedance)	
	Resolution	20mVdc	
	Offset accuracy	±(1%+20mVdc)	
Sweep Characteristics (linear sweep on frequency or amplitude)	Sweep range	free to set start point and stop point	
	Sweep step	any value more than resolution	
	Sweep rate	10ms~60s/step	
	Sweep mode	Up, Down, Up-Down	
Frequency Modulation Characteristics	Manual sweep	step/time	
	Modulation signal	internal or external waveforms	internal signal, channel B or external waveforms
	FM deviation	0%~20%	0%~20%
Amplitude Modulation Characteristics	Carrier signal	—	channel A signal
	Modulation signal	internal or external waveforms	
Shift Keying Characteristics	AM depth	0%~120%	
	FSK	free to set carrier frequency and hop frequency	free to set carrier frequency and hop frequency
	ASK	free to set carrier amplitude and hop amplitude	free to set carrier amplitude and hop amplitude
	PSK	hop phase 0~360°, resolution 11.25°	hop phase 0~360°, resolution 1°
	Alternative rate	10ms~60s	10ms~60s
Output Characteristics of Channel B			
Waveform Characteristics	Waveform type	32 kinds of waveforms, like sine, square, triangle, sawtooth, ladder etc.	
	Waveform length	1024 points	
	Sample rate	12.5MSa/s	
	Waveform amplitude resolution	8bits	
Frequency Characteristics	Frequency range	Sine: 10mHz~1MHz; Other waveforms: 10mHz~100kHz	
	Frequency resolution	10mHz	
	Frequency accuracy	±(1×10-5+10mHz)	
Amplitude Characteristics	Amplitude range	50mVpp~20Vpp (high impedance)	
	Amplitude resolution	20mVpp	
	Output impedance	50Ω	
Harmonic Characteristics (channel B frequency is the harmonic wave of channel A)	Harmonic time	0.1 ~ 250.0 times	
	Harmonic frequency	<1MHz	
	Phase adjustment	coarse adjustment: 11.25 degree/step, fine adjustment: 2 degree/step	
Burst Characteristics (channel B signal is used as burst signal)	Frequency of Channel B	40mHz ~ 1MHz	
	Burst Frequency	10mHz ~ 50kHz	
	Burst count	1~65000 cycles	
	Burst mode	continuous burst and single burst	

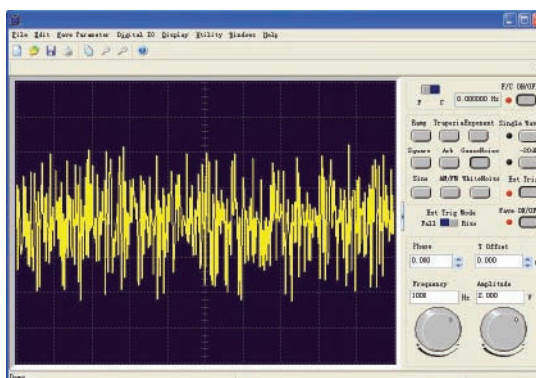
Function/Arbitrary Waveform Generator

200 MSa/s, 25MHz, 12 bits

Hantek1025G

Feature

- 25 MHz Arbitrary waveform output. (sine wave up to 75 MHz).
- 12 Bit Pattern Generator. 200 MSa/s Sample rate, 12 bits vertical resolution.
- 50 MHz Frequency Counter.
- It can be used as the other products signal generator module, not need the computer.
It will produce the needed arbitrary waveform signal when power on.
- USB interface, plug and play, no power need. With small volume, and the weight is light, easy to schlep.
- Support System: Win 7, Windows NT, Windows 2000, Windows XP



Specifications

Model	Hantek1025G	
Arbitrary Waveform Output	Output Frequency	(DC) 1Hz~25MHz (sine wave up to 75MHz)
	Resolution	0.1% Freq
	Amplitude	±3.5V max.
	Output Impedance	50 Ω
	Output Current	50mA Ipeak= 100mA
	Channel	1 channel
	DAC Clock	2K~200MHz adjustable
	Waveform Length	4KSa
	Vertical Resolution	12 bits
	Frequency Stabilization	< 30ppm
System Bandwidth	25M	
SYNC Out	Yes	
Wave Distortion	-50dBc (1KHz), -40dBc (10KHz)	
Frequency Counter	Frequency Area	DC~50MHz
	Input Amplitude	400mVpp~18Vpp
	Coupling	DC
Pattern Generator	Frequency Precision	± time base error ± 1 count
	Input Impedance	> 100KΩ
	Digit	12 bits pattern generator and 6 bit digital in
USB Condition	Type	LVC MOS
	Temperature	0~70 centigrade
	Humidity	0~95%
Mechanics	Dimension	Length: 200mm Width: 150mm Height: 25mm
	Weight	0.5 KGS
	Accessories	1pc BNC probe, 1pc 2-plugs USB cable

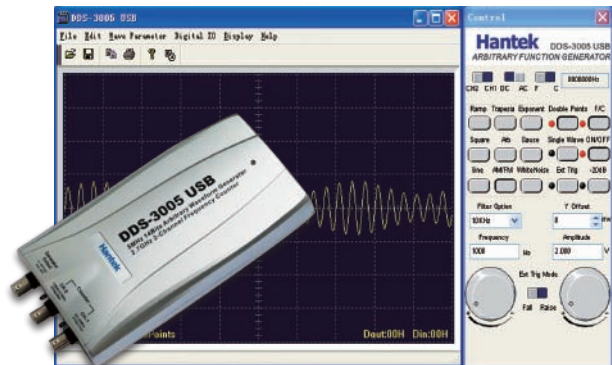
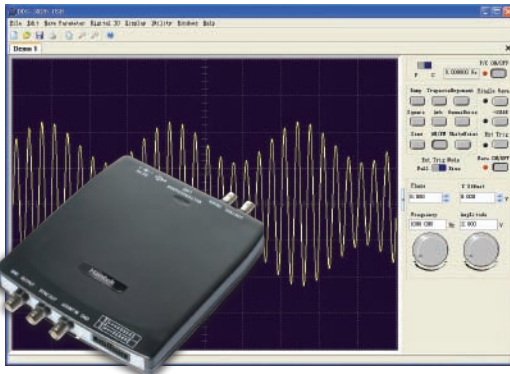
Function/Arbitrary Waveform Generator

200 MSa/s, 25Mz, 12/14 bits of vertical resolution

DDS-3X25/DDS-3005

Feature

- 2.7GHz Frequency Counter,PU USB Function/Arbitrary Waveform Generator.
- It can be used as the other products signal generator module , not need the computer.It will produce the needed arbitrary waveform signal when power on.
- 200 MSa/s of sample rate, 12 /14 bits of vertical resolution.
- 25 MHz Arbitrary waveform output 。 (sine wave up to 75 MHz).
- 50 MHz Frequency Counter.
- 12 Bit Pattern Generator.
- USB interface , plug and play , no power need , the volume is small、 and the weight is light , easy to schlep.



Specifications

Model		DDS-3X25	DDS-3005
Arbitrary Waveform Output	Output Frequency	(DC) 1Hz~25MHz (sine wave up to 75MHz)	(DC) 0.1Hz~5MHz (sine wave up to 10MHz)
	Resolution	0.1% Freq	0.01Hz
	Amplitude	±3.5V max.	±10V max.
	Output Impedance	50 Ω	
	Output Current	50mA Ipeak= 100mA	
	Channel	1 channel	
	DAC Clock	2K~200MHz adjustable	0~50MHz adjustable
	Waveform Length	4KSa	256KSa
	Vertical Resolution	12 bits	14 bits
	Frequency Stabilization	< 30ppm	
	System Bandwidth	25M	5M
	SYNC Out	yes	
	Frequency Counter	Wave Distortion	-50dBc (1KHz) , -40dBc (10KHz)
Low Pass Filter		no	5MHz, 1MHz, 100KHz, 10KHz, 1KHz programmable control
Frequency Area		DC~50MHz	DC~25MHz/25MHz~2.7GHz
Input Amplitude		400mVpp~18Vpp	400mVpp~25Vpp/±20dbm
Coupling		DC	AC,DC
Pattern Generator	Frequency Precision	± time base error ± 1 count	
	Input Impedance	> 100KΩ	> 50KΩ
	Digit	12 bits pattern generator and 6 bit digital in	8 bits digital output and 8 bit digital in
USB Condition	Type	LVCMOS	
	Temperature	0~70 centigrade	
	Humidity	0~95%	
Mechanics	Dimension	Length: 200mm Width: 150mm Height: 25mm	Length: 190mm Width: 100mm Height: 35mm
	Weight	0.5 KGS	0.7 KGS
	Accessories	1pcs BNC probes, 1pc 2-plugs USB cable	

Programmable DC Power Supply

3 Channels, Low ripple, low excursion, High resolution, 10mV, 1mA
PPS2320A



Feature

Wide voltage and current work scope, higher precision, with constant pressure and constant flow model, provides the output or internal switch, and has the preset parameters 16 groups, convenient and quick.

- Two independent adjustable output 0-32 V / 0-3 A ;
- Fixed output can switch over all the way for 2.5 V / 3.3 V / 5 V / 3 A
- Four groups LED display: four display
- Minimum resolution: 10 mV, 1 mA
- Digital panel and Key lock function.
- Digital potentiometer thick adjustable/fine tuning function, low noise, long life
- Output ON/OFF function
- Parallel simultaneous tracking, highest voltage up to 64 V, up to 2 times the maximum current single rated current
- Have the software function calibration
- This product is very light, small and it has beautiful shape

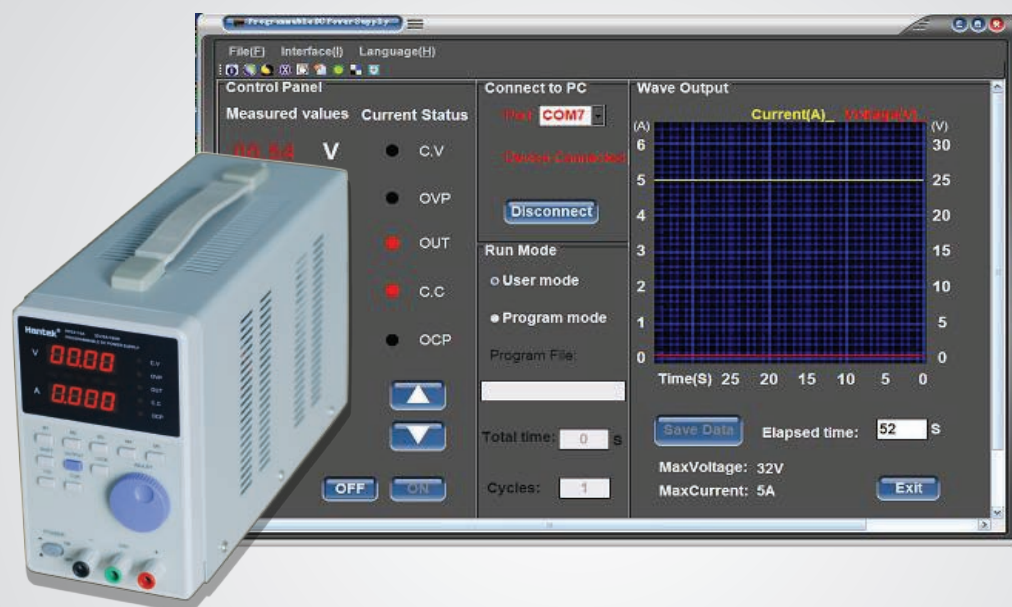
Specifications

Data / Type		PPS2320A	
Output	Channel	CH1&CH2	CH3
	Voltage	0-32V	2.5V/3.3V/5V
	Current	0-3A	0-3A
Constant Voltage	Effect	Source effect: $\leq 0.01\%+3mV$; Load effect: $\leq 0.01\%+3mV$ (Setting current $\leq 3A$); $\leq 0.02\%+5mV$ (Setting current $>3A$)	Source effect: $\leq 5mV$; Load effect $\leq 40mV$
	Grain ripple and noise	$\leq 5mV_{rms}$ (5Hz-1MHz)	$\leq 5mV_{rms}$
	Reaction time	Rise time: $\leq 100ms$ (no load to full load); Fall time: $\leq 100ms$ (full load)	
Constant Current	Output range	0 to 32V Output voltage range set can be adjusted continuously	
	Effect	Source effect: $\leq 0.2\%+3mA$; Load effect: $\leq 0.2\%+3mA$	
	Ripple	$\leq 3mArms$	
Tracking	Output range	0 to the max output current can be adjusted continuously	
	Parallel	Source effect: $\leq 0.01\%+3mV$; Tracking error: $\leq 0.5\%\pm 30mV$; Load effect: $\leq 0.01\%+5mV$ (Setting current $\leq 3A$); $\leq 0.02\%+5mV$ (Setting current $>3A$)	
	Series	Source effect: $\leq 0.01\%+5mV$ Tracking error: $\leq 0.5\%\pm 30mV$	
Display	Display	4 digital display, red/ green	
	Resolution	Voltage: 10mV(0-32.00V) Current: 1mA (0-3.000A) (Less than 10mA current shows for reference only)	
	Programming precision(25 \pm 5 $^{\circ}C$)	Voltage: $\leq \pm$ (Read value 0.5%+2 digits); Current: $\leq \pm$ (Read value 0.5%+2 digits)	
Function	Read accuracy (25 \pm 5 $^{\circ}C$)	Voltage: $\leq \pm$ (Read value 0.5%+2 digits); Current: $\leq \pm$ (Read value 0.5%+3 digits)	
	Panel lock	Yes	
	Storage/out of	16 group	
Others	Power	AC110V/220V/230V $\pm 10\%$, 50/60Hz	
	Size	340(L)x 215(W)* 140(H)mm	
	Accessories	Output line: 3pcs; Product use instructions: 1pc; Power Cord: 1pc	
	Matching	USB Interface, Communication Software	

Programmable DC Power Supply

Low ripple, low excursion; High resolution, 10mV, 1mA

PPS2116A



Feature

- Integrated analog and digital control technology in a new general-purpose power supply. Analog power high stability, low ripple noise characteristics of digital circuits and variety of control functions.
- Low ripple, low excursion
- High resolution, 10mV, 1mA
- With inner auto-serial or parallel function
- Convenient software calibration
- High-stability, low-drift.
- OVP, OCP and OTP to protect power supply.
- The intelligence temperature-control fan noise is low.

Specifications

Data / Type	PPS2116A
Channel	1
Output Voltage	0-32.00V(step 0.01V)
Output Current	0-5A
Source effect:	CV \leq 0.01%+3mV(mA)
Load regulation:	CV \leq 0.01%+3mV(I \leq 3A) CC \leq 0.2%+3mA(I \leq 3A) CV \leq 0.02%+5mV(I $>$ 3A) CC \leq 0.2%+5mA(I $>$ 3A)
Ripple & Niose:	CV \leq 1.0mVrms(I \leq 3A) CC \leq 3mArms(I \leq 3A) CV \leq 2.0mVrms(I $>$ 3A) CC \leq 6mArms(I $>$ 3A)
Protection type:	Overcurrent protection (OCP);Overvoltage protection (OVP)
Show the accuracy:	Precision voltage directive, \pm (0.5%+2 digits) Accuracy of current instructions, \pm (1%+2 digits)
Output voltage rise time:	Unladen <60ms Loaded:<60ms
Output voltage fall time:	Unladen: <100ms Loaded: <100ms
Working Voltage:	AC 110V/220V/230V \pm 10%, 50Hz/60Hz
Package Size:	310mm \times 150mm \times 205mm(L \times W \times H)
Dimensions:	W (100mm) \times H (160mm+ Machine feet 6mm) \times D (275mm non-terminal)
Operating environment:	Temperature0 ~+40 C relative humidity \leq 80%

Regulated DC Power Supply

3/1 Channels, Low ripple, low excursion

HT3000PA/PB Series

Feature

- * SMD adhesive sheet element technology for internal PCB construction
- * Two LED Display output current and voltage
- * Multiloop high precision voltage regulation
- * Progressive current regulation
- * Dual terminal system Safety test style or expandable screw terminals
- * Overload protection circuit
- * Low ripple voltage: <math><1\text{mVP-P}</math>
- * Output polarity: positive or negative
- * Rugged reinforced metal frame construction

Specification

Model	HT3003PA	HT3005PA
Channel	CH1	CH1
Output Voltage	0–30V	0–30V
Output Current	0–3A	0–5A
Input Voltage	220V \pm 10%, 50Hz \pm 2Hz	
Voltage Regulation	CV \leq 1x10 ⁻⁴ +3mV, CC \leq 2x10 ⁻³ +6mA	
Load Regulation	CV \leq 2x10 ⁻⁴ +3mV, CC \leq 2x10 ⁻⁴ +6mA	
Ripple & Noise	CV \leq 1mVrms, CC \leq 10mA rms	
Protection	Current Limiting	
Voltage Indication Accuracy	1%+1digit	
Current Indication Accuracy	2%+1digits	
Ambient Temperature	0–40°C	
Humidity	<90%	
Weight	5kg	



Specification

Model	HT3003PB		HT3005PB	
Channel	CH1&CH2	CH3	CH1&CH2	CH3
Output Voltage	0–30V	5V	0–30V	5V
Output Current	0–3A	3A	0–5A	3A
Input Voltage	220V \pm 10%, 50Hz \pm 2Hz			
Voltage Regulation	CV \leq 1x10 ⁻⁴ +5mV, CC \leq 1x10 ⁻⁴ +6mA, CV \leq 1x10 ⁻⁴ +2mV			
Load Regulation	CV \leq 1x10 ⁻⁴ +5mV CC \leq 1x10 ⁻⁴ +6mA			
Ripple & Noise	CV \leq 1mV(rms); CV \leq 20mVp-p; CC \leq 3mA(rms); CC \leq 50mA p-p;			
Protection	Current Limiting			
Voltage Indication Accuracy	Reading \pm 1% \pm 2 digits			
Current Indication Accuracy	Reading \pm 2% \pm 2 digits			
Ambient Temperature	0–40°C			
Humidity	<90%			



Regulated DC Power Supply

3/1 Channels, Low ripple, low excursion

HT3000PE/PF/PG Series

Feature

- Utilizes SMT technology.
- LCD display to show regulated voltage and current.
- Green/Amber LCD back-light selectable.
- Auto interchangeable of regulated voltage and current.
- Multi-turn variable device to provide high precision voltage setting.
- Step-by-step current limit setting.
- Auto-tracking on PARALLEL and SERIAL working condition.
- Extended output terminal connection.
- Continuously working under full loaded condition.

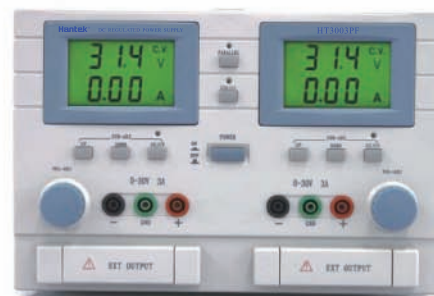
Specification

Model	HT3003PE	HT3005PE	HT5003PE
Output Voltage	0-30V	0-30V	0-50V
Output Current	0-3A	0-5A	0-3A
Input Voltage	110/220V \pm 10%, 50Hz~60Hz		
Voltage Regulation	CV \leq 1x10 ⁻⁴ +3mV, CC \leq 2x10 ⁻⁴ +6mA		
Load Regulation	CV \leq 2x10 ⁻⁴ +3mV, CC \leq 2x10 ⁻⁴ +6mA		
Ripple & Noise	CV \leq 0.5mVrms		
Protection	Current Limiting		
Voltage Indication Accuracy	Reading \pm 1% \pm 1digit		
Current Indication Accuracy	Reading \pm 2% \pm 2digit		
Ambient Environment	Temperature: 0-40°C; Humidity: <90%		
Weight	5KG	6KG	7KG



Specification

Model	HT3003PF	HT3005PF
Output Voltage	0-30Vx2	0-30Vx2
Output Current	0-3Ax2	0-5Ax2
Input Voltage	110/220V \pm 10%, 50Hz~60Hz	
Voltage Regulation	CV \leq 1x10 ⁻⁴ +3mV, CC \leq 2x10 ⁻⁴ +6mA	
Load Regulation	CV \leq 2x10 ⁻⁴ +3mV, CC \leq 2x10 ⁻⁴ +6mA	
Ripple & Noise	CV \leq 0.5mVrms	
Protection	Current Limiting	
Voltage Indication Accuracy	Reading \pm 1% \pm 1digit	
Current Indication Accuracy	Reading \pm 2% \pm 2digit	
Ambient Environment	Temperature: 0-40°C; Humidity: <90%	



Specification

Model	HT3003PG	HT3005PG
Output Voltage	0-30Vx2, 5V	0-30Vx2, 5V
Output Current	0-3Ax2, 3A	0-5Ax2, 3A
Input Voltage	110/220V \pm 10%, 50Hz~60Hz	
Voltage Regulation	CV \leq 1 x 10 ⁻⁴ +3mV, CC \leq 2 x 10 ⁻⁴ +6mA	
Load Regulation	CV \leq 2 x 10 ⁻⁴ +3mV, CC \leq 2 x 10 ⁻⁴ +6mA	
Ripple & Noise	CV \leq 0.5mVrms	
Protection	Current Limiting	
Voltage Indication Accuracy	Reading \pm 1% \pm 1digit	
Current Indication Accuracy	Reading \pm 2% \pm 2digit	
Ambient Environment	Temperature: 0-40°C; Humidity: <90%	



Handheld Oscilloscope

1GSa/s, 200MHz, 2M, Oscilloscope/Generator/DMM/Recorder

DSO1000E Series



Feature

- Oscilloscope, Generator, DMM, Recorder in one.
- 1GSa/s sample rate. High Bandwidth 70MHz-200MHz Oscilloscope,
- 2M Memory Depth, High Refresh Rate (2500 frames).
- 6000 Counts DMM with analog bargraph.
- Large 5.6 inch Color LCD Display, High Resolution (640*480).
- 32 kinds of automotive measurement and FFT analysis.

Specifications

	Model	DSO1072E	DSO1102E	DSO1202E
Horizontal	Bandwidth	70MHz	100MHz	200MHz
	Real-time Sample Rate		1GSa/s	
	Rise Time at BNC	5ns	3.5ns	1.7ns
	Time/div Range	4ns/div-40s/div		2ns/div-40s/div
Vertical	A/D Converter	8bit		
	Volts/div Range	2mV/div~100V/div		
	Position Range	±50V(5V/div); ±40V(2V/div ~ 500mV/div); ±2V(200mV/div ~ 50mV/div); ±400mV(20mV/div ~ 2mV/div)		
	Record Length (Sample Points)	2M		
	DC Gain Accuracy	±4% for Sample or Average acquisition mode, 5mV/div to 2mV/div ±3% for Sample or Average acquisition mode, 100V/div to 10mV/div		
Trigger	Trigger Sensitivity (Edge Trigger Type)	DC: 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.		
	Trigger Level Range	CH1,CH2: ±8 divisions from center of screen		
	Hold off Range	100ns-10s		
	Trigger Level Accuracy(typical)	CH1,CH2: ±(0.3div×V/div) (within ±4 divisions from center of screen)		
	Edge Trigger	Trigger on the rising or falling edge		
	Video Trigger	Trigger on an NTSC, PAL, or SECAM standard video signal Line Range: 1-525 (NTSC), 1-625 (PAL/SECAM)		
	Slope Trigger	Trigger (when >, <, =, ≠) on a positive or negative slope Set Time: 20ns-10s		
	Overtime Trigger	From the rising or falling edge Set Time: 20ns-10s		
	Alternate Trigger	Internal trigger on edge, pulse width, video or slope		
	Measurement	Cursors	Manual: The difference between voltage cursors ΔV ; The difference between time cursors ΔT ; Reciprocal of ΔT in Hertz (1/ ΔT). Tracing: The voltage and time at a waveform point.	
Automatic		Frequency, Period, Mean, Pk-Pk, Cycl RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPREShoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF DC, AC or GND		
			1M Ω ±2% for 20pF±3 pF	
Input	Input Coupling	1X, 10X,		
	Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X		
	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)		
Signal Source Mode	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		
Meter mode	System BW	25M		
	Harmonic Distortion	-50dBc(1KHz), -40dBc(10KHz)		
	Max. Resolution	6,000 Counts		
	DMM Testing Modes	Voltage, Current, Resistance, Capacitance, Diode & Continuity		
	Max. Input Current	AC: 10A, DC: 10A		
General Feature	Input Impedance	10 M Ω		
	Display	5.6 inch 16-digit color LCD; 640*480 dots; 16 gears, with the progress bar to show adjustment		
	Interface	USB host and USB slave, LAN Optional		
	Voltage	DC Input: 12~17VDC, 1500mA		
	Size	245 x 163 x 52 (mm)		
	Weight	1.3kg		

Handheld Oscilloscope

Isolated Channels, 1GSa/s, 200/120/60MHz

DSO1000S Series



Feature

- Isolated level: 1000V CATII, 600V CATIII.
- 1GSa/s sample rate. High Bandwidth 60MHz-200MHz Oscilloscope,
- 6000 Counts DMM with analog bargraph.1M Memory Depth, High Refresh Rate (2500 frames).
- Large 5.6 inch Color LCD Display, High Resolution (640*480).
- 32 kinds of automotive measurement and FFT analysis.
- USB Host/Device 2.0 full-speed interface, LAN Optional.

Specifications

Specifications		DSO1202S	DSO1152S	DSO1122S	DSO1062S
Horizontal	Model	DSO1202S	DSO1152S	DSO1122S	DSO1062S
	Bandwidth	200MHz	150MHz	120MHz	60MHz
	Real-time Sample Rate	1GSa/s			
	Equivalent Sample Rate	25GSa/s			
	Rise Time at BNC	≤1.7ns	≤2.3ns	≤2.9ns	≤5.8ns
Vertical	Time/div Range	2ns/div-40s/div		4ns/div-40s/div	
	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)			
	Record Length (Sample Points)	Single-channel: Maximum 1M; Dual-channel:Maximum 512K			
	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			
	DC	1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz;			
Trigger	Trigger Sensitivity (Edge Trigger Type)	AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.			
	Trigger Level Range	CH1,CH2: ±8 divisions from center of screen			
	Hold off Range	100ns-10s			
	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)			
	Edge Trigger	Trigger on the rising or falling edge			
	Video Trigger	Trigger on an NTSC, PAL, or SECAM standard video signal Line Range: 1-525 (NTSC), 1-625 (PAL/SECAM)			
	Slope Trigger	Trigger (when >, <, =, ≠) on a positive or negative slope Set Time: 20ns-10s			
	Overtime Trigger	From the rising or falling edge Set Time: 20ns-10s			
	Alternate Trigger	Internal trigger on edge, pulse width, video or slope			
	Measurement	Cursors	Manual: The difference between voltage cursors ΔV ; The difference between time cursors ΔT ; Reciprocal of ΔT in Hertz ($1/\Delta T$).		
Automatic		Tracing: The voltage and time at a waveform point. Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPRESshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF			
Input		DC, AC or GND			
Input	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF			
	Probe Attenuation	1X, 10X,			
	Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X			
	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)			
	Voltage between BNC and Ground	600V CATIII, 1000V CAT II			
	Voltage between each Channel	600V CATIII, 1000V CAT II			
	Voltage between Multimeter and Ground	1000V			
Meter mode	Voltage between input Ports directly	400V CAT II			
	Input by 10:1 probe	600V CATIII, 1000V CAT II			
	Max. Resolution	6,000 Counts			
	DMM Testing Modes	Voltage, Current, Resistance, Capacitance, Diode & Continuity			
	Max. Input Current	AC: 10A, DC: 10A			
General Feature	Input Impedance	10 MΩ			
	Display Type	5.6 inch 16-digit color LCD			
	Display Resolution	640*480 dots			
	Display Contrast	16 gears, with the progress bar to show adjustment			
	Interface	USB host and USB slave, LAN Optional			
	Voltage	DC Input:12-17VDC, 1500mA			
	Size	245 x 163 x 52 (mm)			
Weight	1.3kg				

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 4G SD flash memory within DSO1000BV Series.

Specifications		DSO1202B DSO1202BV	DSO1102B DSO1102BV	DSO1062B DSO1062BV
Horizontal	Model			
	Bandwidth	200MHz	100MHz	60MHz
	Real-time Sample Rate	1GSa/s		
	Equivalent Sample Rate	25GSa/s		
	Rise Time at BNC	≤1.7ns	≤3.5ns	≤5.8ns
Vertical	Time/div Range	2ns/div-40s/div	4ns/div-40s/div	
	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)		
	Record Length (Sample Points)	Single-channel: Maximum 1M; Dual-channel: Maximum 512K		
	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: 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals above 80kHz; LF Reject: The same as DC coupling limit when frequency above 150kHz; Attenuates signals when below 150kHz.	
Trigger Level Range		CH1,CH2: ±8 divisions from center of screen		
Hold off Range		100ns-10s		
Trigger Level Accuracy(typical)		CH1,CH2: ±(0.3div×V/div) (within ±4 divisions from center of screen)		
Edge Trigger		Trigger on the rising or falling edge		
Video Trigger		Trigger on an NTSC, PAL, or SECAM standard video signal Line Range: 1-525 (NTSC), 1-625 (PAL/SECAM)		
Slope Trigger		Trigger (when >, <, =, ≠) on a positive or negative slope Set Time: 20ns-10s		
Overtime Trigger		From the rising or falling edge Set Time: 20ns-10s		
Measurement	Alternate Trigger	Internal trigger on edge, pulse width, video or slope		
	Cursors	Manual: The difference between voltage cursors ΔV ; The difference between time cursors ΔT ; Reciprocal of ΔT in Hertz ($1/\Delta T$).		
	Automatic	Tracing: The voltage and time at a waveform point. Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPRESshoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF		
	Input	DC, AC or GND		
Meter mode	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF		
	Probe Attenuation	1X, 10X,		
	Supported Probe Attenuation Factor	1X, 10X, 100X, 1000X		
	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)		
	Max. Resolution	6,000 Counts		
General Feature	DMM Testing Modes	Voltage, Current, Resistance, Capacitance, Diode & Continuity		
	Max. Input Current	AC: 10A, DC: 10A		
	Input Impedance	10 MΩ		
	Display	5.6 inch 16-digit color LCD; 640*480 dots; adjustable (16 gears) with the progress bar		
Interface	USB host and USB slave, LAN Optional			
Voltage	DC Input: 12-17VDC, 1500mA			
Size & Weight	245 x 163 x 52 (mm) ; 1.3kg			

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.



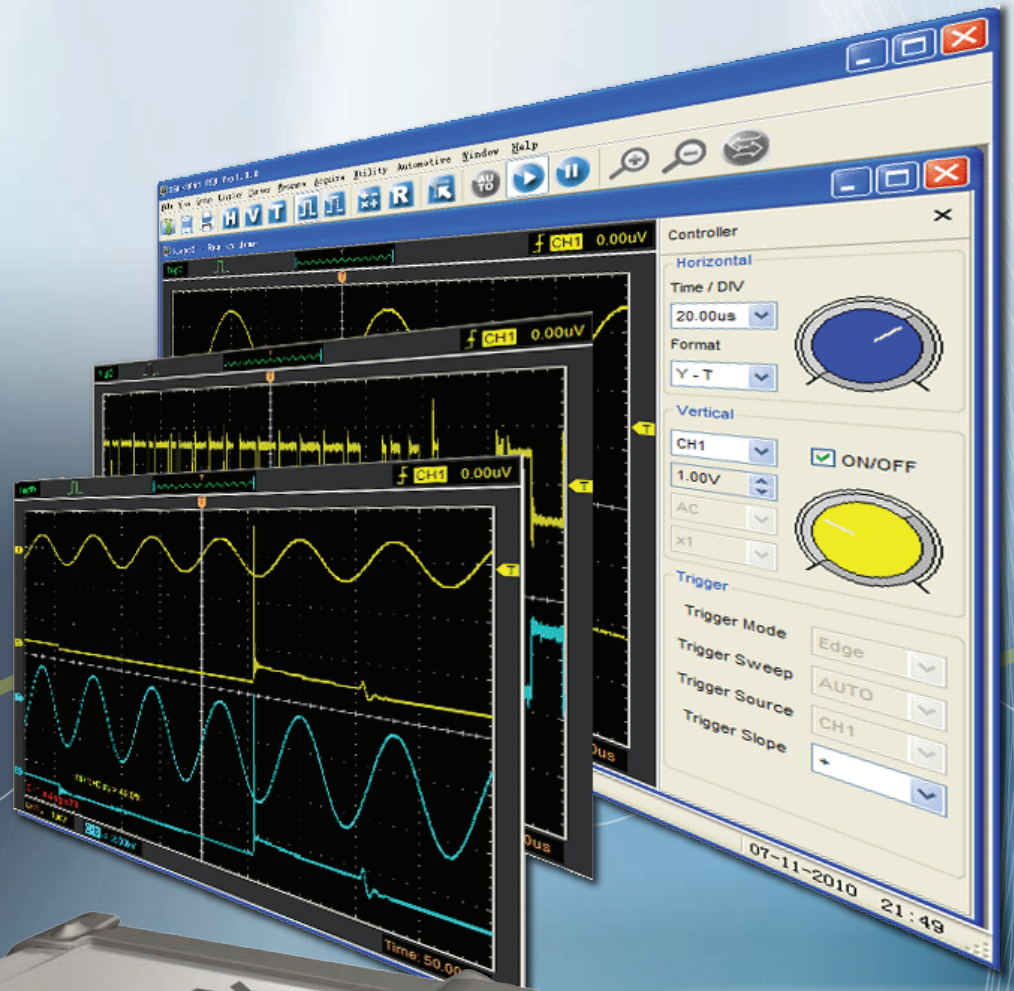
Specification

	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			
	Internal 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			
Signal Source Mode	Input Impedance	10 M Ω			
	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			
Measure Frequency Channel	System BW	25M			
	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			
	Input Impedence	>100K Ω			
	Type	Right angle 5.6", 16-digit color LCD			
	Resolution	640*480 dots			320*240 dots
	Other	Contrast	16 gears, with the progress bar to show adjustment		
Interface		USB host and USB slave, RS232/Lan Optional			
Voltage		DC Input:12~17VDC, 1500mA			
Size & Weight		245 x 163 x 52 (mm); 1.3KG (exclusive of packing and accessories)			

PC USB Digital Oscilloscope

4/2 Analog CH, 16 Logic CH, 1 CH Arb. Generator

DSO3000 Series



Feature

2/4 Channels and EXT trigger, 50-200MHz Bandwidth.

10K--128M memory depth.

Frequency Counter,FFT spectrum analysis.

8--36V Wide range of input voltage,suitable for vehicle power test.

USB 2.0 interface plug and play, LAN and WIFI optional.

More than 20 kinds of automatic measurement function,PASS/FAIL Check function, is suitable for engineering application.

Excellent industrial design, similar interface with bench oscilloscope ,Easy to use.

Software support : Windows NT, Windows 2000, Windows XP ,VISTA,Windows 7 ,

Supply DEMO code (VC,VB,LABVIEW) and technical support.

Specification							
Model	Analog Channels	Digital Channels	AFG	BandWidth	Sample Rate	Resulation	Memory
DSO3064	4	--	--	60 MHz	200MSa/s	8	16M
DSO3064A	4	--	25MHz	60 MHz	200MSa/s	8	16M
DSO3062A	2	--	25MHz	60 MHz	200MSa/s	8	16M
DSO3062L	2	16	--	60 MHz	200MSa/s	8	16M
DSO3062AL	2	16	25MHz	60 MHz	200MSa/s	8	16M
DSO3102	2	--	--	60 MHz	1GSa/s	8	256M
DSO3102A	2	--	--	100 MHz	1GSa/s	8	256M
DSO3202	2	--	--	150 MHz	1GSa/s	8	256M
DSO3202A	2	--	--	200 MHz	1GSa/s	8	256M
DSO3104	4	--	--	100 MHz	1GSa/s	8	256M
DSO3104A	4	--	--	150 MHz	1GSa/s	8	256M
DSO3204	4	--	--	200MHz	1GSa/s	8	256M
DSO3204A	4	--	--	250MHz	1GSa/s	8	256M
DSO3502	2	--	--	70 MHz	500MSa/s	8	128M
DSO3502A	2	16	25MHz	70 MHz	500MSa/s	8	128M
DSO3502L	2	16	--	70 MHz	500MSa/s	8	128M
DSO3502AL	2	--	25MHz	70 MHz	500MSa/s	8	128M
DSO3102L	2	16	--	100 MHz	1GSa/s	8	256M
DSO3102AL	2	16	25MHz	100 MHz	1GSa/s	8	256M
DSO3102ALM	2	--	25MHz	100MHz	1GSa/s	8	256M
DSO3202L	2	16	25MHz	200 MHz	1GSa/s	8	256M
DSO3202M	2	16	25MHz	200 MHz	1GSa/s	8	256M
DSO3232	2	16	25MHz	200 MHz	1GSa/s	8	256M

PC USB Digital Oscilloscope

2/4 CH Oscilloscope, 256M Memory Depth, 1GS/s Sample Rate

DSO3000 Series (1GSa/s)

Feature

- 2/4 channel and EXT trigger; 256M memory depth;
- 60-250MHz bandwidth; 1GSa/s real-time sampling rate;
- 8--36V Wide range of input voltage, suitable for vehicle power test;
- USB 2.0 interface plug and play, LAN and WIFI option;
- More than 20 kinds of automatic measurement function, PASS/FAIL Check function, is suitable for engineering application;
- Excellent industrial design, similar interface with bench oscilloscope, easy to use;

Specifications

Model		DSO3102	DSO3102A	DSO3202	DSO3202A	DSO3104	DSO3104A	DSO3204	DSO3204A
Vertical	Analog Channels	2				4			
	Bandwidth	60MHz	100MHz	200MHz	250MHz	100MHz	150MHz	200MHz	250MHz
	Rise time	5.8ns	3.5ns	1.7ns	1.4ns	3.5ns	2.3ns	1.7ns	1.4ns
	Input Impedance	Resistance: 1MΩ; Capacitance: 25pF							
	Input Sensitivity	10mV/div to 5V/div							
	Input Coupling	AC, DC, GND							
	Vertical Resolution	8bit							
	Max. Input	400V(DC+AC Peak)							
	Voltage Range	10mV ~ 5V/div @ x1 probe(1,2,5 sequence);							
		100mV ~ 50V/div @ x10 probe							
1V ~ 500V/div @ x100 probe;									
10V ~ 5KV/div @ x1000 probe;									
10V ~ 50000V/div @ x10000 probe;									
Currunt Range	200mV ~ 100V/div @ 20:1								
	CC65(20A), CC650(60A), CC650, CC1100								
Horizontal	Real-time sampling Rate	1GSa/s							
	Time base range	5ns/div to 1000s/div				CH1, CH2, CH3, CH4, EXT			
	Time base precision	±50ppm							
	Memory Depth	256M							
Trigger	Trigger Source	CH1,CH2, EXT							
	Trigger Mode	Auto, Normal and Single							
	Trigger Type	Edge, Pulse, Video, Alternative							
	Trigger Sensitivity	0.02 div increments							
	Trigger Level Range	±4V							
	Trigger Level Accuracy	±4 division							
	Edge Trigger Slope	Rising, Falling							
	Pulse Width Trigger	Trigger Condition: Trigger when <, >, =, or ≠; Positive pulse or Negative pulse Pulse Width Range: Selectable from 10ns to 10s							
	Video Trigger Type (Signal Formats and Field Rates)	Supports NTSC, PAL and SECAM broadcast systems for any field or any line							
	Measurement	Alternative Trigger	CH1,CH2(CH3,CH4): Internal Trigger, Edge, Pulse Width, Video Amplitude difference between cursors (ΔV); Time difference between cursors (Δt); Reciprocal of Δt in Hertz (1/Δt) (Cross, Trace, Horizontal, Vertical)						
Cursor Measure		Voltage	Vp-p, Vmax, Vmin, Vmean, Vamp, Vtop, Vbase, Vmid, Vrms, Vcrms, Preshoot, Overshoot						
		Time	Frequency, Period, Rise Time(10%~90%), Fall Time(10%~90%), Positive Width, Negative Width, Duty Cycle						
General Feature	FFT	Rectangular, Hanning, Hamming, Blackman Window							
	Math	Addition, subtraction, multiplication, division							
	Interface	USB2.0(LAN, WIFI optional)							
	Power Source	8--36V wide range of input voltage suitable							
	Temperature	Operating: 0 C to 40 C; Non-operating: -20 C to +60 C							
	Cooling Method	Forced air							
	Humidity	Below +35 C, ≤90% relative humidity; +35 C to +40 C, ≤60% relative humidity							
	Altitude	Operating: 3,000m or below; Non-operating: 15,000m or below							
	Size	190mm(L)x100mm(W)x35mm(H)							
	Weight	Without Packaged 1kg;							

PC USB Digital Oscilloscope

Oscilloscope / Logic Analyzer / Arb. Waveform Generator / FFT / Frequency Counter

DSO3000 Series (200MSa/s)

Feature

- 2/4 channel oscilloscope
- 16M memory depth oscilloscope;
- 16 channel input channels and 16M sample depth logic analyzer;
- 200MSa/s DDS arb. waveform generator;
- Plug and play USB 2.0 interface, LAN and WIFI option.

Specifications

Model		DSO3064	DSO3064A	DSO3062A	DSO3062AL	DSO3062L
Acquisition	Analog Channel	4		2		
	Sample Rate	200MSa/s				
Input	Input Coupling	DC, AC, GND				
	Input Impedance	Resistance: 1M Ω ; Capacitance: 25pF				
	Probe Attenuation Factors	1X, 10X, 100X, 1000X				
	Maximum Input Voltage	400Vpk (DC + peak)				
Horizontal	Scanning Speed Range(Sec/Div)	5ns/div ~ 1000s/div(1-2-5 sequences)				
	Sample Rate and Delay Time Accuracy	± 50 ppm(any interval ≥ 1 ms)				
	Memory Depth(Sample Points)	10K ~ 16M for each channel; 16M: 5ns/div-1000s/div				
	Analog Bandwidth	60MHz (-3dB)				
Vertical	A/D converter	8 bit resolution				
	Vertical Scale(Volt/div) Range	10mV ~ 5V/div @ x1 probe(1,2,5 sequence); 100mV ~ 50V/div @ x10 probe 1V ~ 500V/div @ x100 probe; 10V ~ 5KV/div @ x1000 probe; 10V ~ 50000V/div @ x10000 probe; 200mV ~ 100V/div @ 20:1				
	Position Range	± 4 division				
	Bandwidth Limit	20MHz				
	Lower Frequency Response(-3dB)	≤ 10 Hz(at input BNC)				
	Rise Time at BNC(typical)	≤ 5.8 ns				
Trigger	DC Gain Accuracy	$\pm 3\%$				
	Trigger Source	CH1, CH2, CH3, CH4, EXT	CH1, CH2, EXT	CH1, CH2, EXT, D0-D15		
	Trigger Mode	Auto, Normal and Single				
	Trigger Type	Edge, Pulse, Video, Alternative				
	Trigger Sensitivity	0.02 div increments				
	Trigger Level Range	± 4 V				
Measurement	Trigger Level Accuracy	± 4 division				
	Cursor Measure	Amplitude difference between cursors (ΔV); Time difference between cursors (Δt); Reciprocal of Δt in Hertz ($1/\Delta t$) (Cross, Trace, Horizontal, Vertical)				
Arbitrary Waveform Generator	Auto Measure	Voltage	Vp-p, Vmax, Vmin, Vmean, Vamp, Vtop, Vbase, Vmid, Vrms, Vcrms, Preshoot, Overshoot			
		Time	Frequency, Period, Rise Time(10%~90%), Fall Time(10%~90%), Positive Width, Negative Width, Duty Cycle			
	Waveform Frequency	--	DC~25MHz	--		
	DAC clock	--	2K~200MHz adjustable	--		
	Frequency Resolution	--	0.10%	--		
	Waveform Depth	--	4K Sample	--		
	Vertical Resolution	--	12 bit	--		
	Frequency Stability	--	<30ppm	--		
	Wave Amplitude	--	± 3.5 V Max.	--		
	Output Impedance	--	50 Ω	--		
Logic Analyzer	Output Current	--	50mA ,Ipeak=50mA	--		
	System BW	--	25MHz	--		
	Harmonic Distortion	--	-50dB(1KHz), -40dB(10KHz)	--		
	High input impedance	--	--	--	200K Ω (C=10pF)	
	Input Voltage Range	--	--	--	-60V~60V	
	Logic threshold Range	--	--	--	-6~6V	
	Max. Sample Rate	--	--	--	100MHz	
	Bandwidth	--	--	--	10MHz	
	Compatible input	--	--	--	TTL, LVTTTL, CMOS, LVCMOS, ECL, PECL, EIA	
	Storage depth	--	--	--	10K~68M	
Mechanical	Size	190mm(L)x100mm(W)x35mm(H)				
	Weight	1.0kg (without package);				

PC USB Digital Oscilloscope

200/100/80/50MHz, 2CH PC Based USB Oscilloscope

Hantek6000 Series

Feature

- 200/100/80/50MHz high bandwidth with 2 channels;
- 250MS/s or 150MS/s real time sampling rate;
- Multi-language support, easy to use;
- USB 2.0 interface, no external power required;
- 23 measurement functions, PASS/FAIL check, FFT.
- OS: Windows NT, Windows 2000, Windows XP, Windows 7;
- Labview\VB\VC SDK.



Specifications

Model		Hantek6052BE	Hantek6082BE	Hantek6102BE	Hantek6212BE
Acquisition	Sample Mode	Real-Time Sample			
	Sample Rate	150MSa/s	250MSa/s		
	Average	N acquisitions, all channels simultaneously, N is selectable from 1-128			
Input	Input Coupling	DC, AC, GND			
	Input Impedance	Resistance: 1MΩ; Capacitance: 25pF			
	Probe Attenuation Factors	1X, 10X, 100X, 1000X			
	Maximum Input Voltage	35Vpk (DC + peak)			
Horizontal	Scanning Speed Range(Sec/Div)	4ns/div ~ 1h/div(1-2-4 sequences)			2ns/div ~ 1h/div
	Sample Rate and Delay Time Accuracy	±50ppm(any interval ≥1ms)			
	Wave form Interpolation	Step, Linear, Sin(x)/x			
	Memory Depth(Sample Points)	10K : available all timebase;	10K : available all timebase;		
		32K : 40us/div-400ms/div(Single channel); 20us/div-400ms/div(Dual channel); 64K : 40us/div-400ms/div	512K : 200us/div-400ms/div(Single channel); 400us/div-400ms/div(Dual channel); 1M : 400us/div-400ms/div(Signal channel)		
Analog Bandwidth	50MHz (-3dB)	80MHz (-3dB)	100MHz (-3dB)	200MHz (-3dB)	
A/D converter	8 bit resolution			9 bit resolution	
Vertical	Vertical Scale(Volt/div) Range	10mV ~ 5V/div @ x1 probe(1,2,5 sequence);		10mV ~ 10V/div @ x1 probe;	
		100mV ~ 50V/div @ x10 probe		100mV ~ 100V/div @ x10 probe	
		1V ~ 500V/div @ x100 probe;		1V ~ 1KV/div @ x100 probe;	
	10V ~ 5KV/div @ x1000 probe		10V ~ 10KV/div @ x1000 probe		
	Position Range	±4division			
	Selectable Analog Bandwidth Limit(typical)	20MHz			
	Lower Frequency Response(-3dB)	≤ 10Hz(at input BNC)			
Rise Time at BNC(typical)	≤7ns	≤4.4ns	≤3.5ns	≤1.7ns	
Trigger	DC Gain Accuracy	±3%			
	Trigger Source	CH1,CH2, EXT			
	Trigger Mode	Auto, Normal and Single			
	Trigger Type	Edge trigger: Rising edge, falling edge.			
	Trigger Sensitivity	0.02 div increments			
	Trigger Level Range	±4V			
Measurement	Trigger Level Accuracy	±4 division			
	Cursor Measure	Amplitude difference between cursors (ΔV);Time difference between cursors (Δt); Reciprocal of Δt in Hertz (1/ Δt) (Cross, Trace, Horizontal, Vertical)			
	Auto Measure	Voltage	Vp-p, Vmax, Vmin, Vmean, Vamp, Vtop, Vbase, Vmid, Vrms, Vcrms, Preshoot, Overshoot		
Environmental	Temperature	Frequency, Period, Rise Time(10%~90%), Fall Time(10%~90%), Positive Width, Negative Width, Duty Cycle			
	Cooling Method	Operating: 0 C to 40 C ; Non-operating: -20 C to +60 C)			
	Humidity	Forced air			
	Altitude	Below +35 C , ≤90% relative humidity; +35 C to +40 C , ≤60% relative humidity			
Mechanical	Size	Operating: 3,000m or below; Non-operating:15,000m or below			
	Heavy	190mm(L)x100mm(W)x35mm(H) Without Packaged 0.29kg; Packaged 0.9kg;			

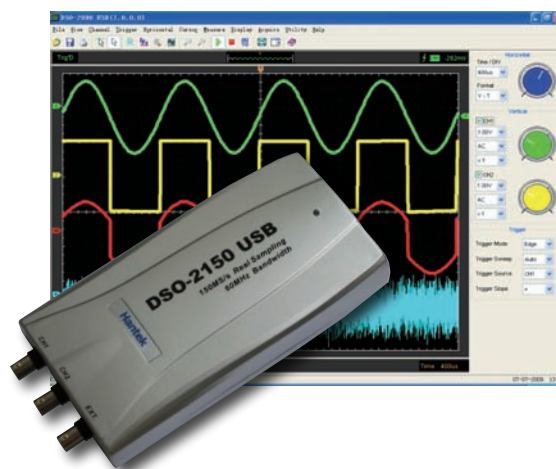
PC USB Digital Oscilloscope

200/100/60/40MHz, 2CH, USB 2.0, No External Power Required

DSO2000 Series

Feature

- 200/100/60/40MHz high bandwidth with 2 channels;
- 250MSa/s, 200MSa/s, 150MSa/s or 100MSa/s real time sampling rate;
- 50GSa/s equivalent time sampling rate;
- Multi-language support, easy to use;
- USB 2.0 interface, no external power required;
- 23 measurement functions, PASS/FAIL check, FFT.
- OS: Windows NT, Windows 2000, Windows XP, Windows 7;
- Labview\VB\VC SDK.



Specifications

	Model	DSO2090	DSO2150	DSO2250	DSO5200	DSO5200A
Horizontal	Channel	2	2	2	2	2
	Bandwidth	40MHz (-3dB)	60MHz (-3dB)	100MHz (-3dB)	200MHz (-3dB)	
	Rise Time	≤8.8ns	≤5.8ns	≤3.5ns	≤1.7ns	
	Real-time Sampling Rate	100MSa/s	150MSa/s	250MSa/s	200MSa/s	250MSa/s
	Equivalent Sampling Rate	50GSa/s				
	Time Base Range	4ns/div~1h/div (1-2-4 sequences)			2ns/div~1h/div (1-2-4 sequences)	
	Time Base Precision	±50ppm				
Vertical	Input Impedance	Resistance: 1MΩ ; Capacitance: 25 pF				
	Input Sensitivity	10mV/div to 5V/div		10mV/div to 10V/div		
	Input Coupling	AC, DC and GND (ground level indicator)				
	Vertical Resolution	8 bits			9 bits	
	Memory Depth (Sample Points)	10K-64K	10K-1M	10K-28K	10K-1M	
Trigger	Maximum Input	300V (DC+AC Peak)				
	Source	CH1, CH2, EXT, EXT/10				
X-Y Mode	Mode	Edge, Alternative			Edge, Pulse Width, Alternative	
	X-Axis Input	Channel 1				
	Y-Axis Input	Channel 2				
Cursors and Measurement	Phase Shift	Max. 3 degree				
	Voltage Measurement	Vpp, Vamp, Vmax, Vmin, Vtop, Vmid, Vbase, Vavg, Vrms, Vcrms, Preshoot, Overshoot				
	Time Measurement	Frequency, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle				
	Cursors Measurement	Horizontal, Vertical, Track, Auto Measure Modes				
	Waveform Signal Process	.+, -, x, ÷, FFT, Invert				
Others	Auto Set	yes				
	Voltage Range	10mV to 5V/div @ x 1 probe			10mV to 10V/div @ x 1 probe	
		100mV to 50V/div @ x 10 probe			100mV to 100V/div @ x 10 probe	
		1V to 500V/div @ x 100 probe			1V to 1000V/div @ x 100 probe	
		10V to 5000V/div @ x 1000 probe			10V to 10000V/div @ x 1000 probe	
	Cursor	Time/frequency difference, voltage difference				
FFT	Rectangular, hanning, hamming, blackman Window					
Math	Addition, subtraction, multiplication, division					
Interface	USB2.0					
Power Source	No external power, bus-powered from USB					
Mechanics	Dimension	Length: 190mm Width: 100mm Height: 35mm				
	Weight	0.29KGS (exclusive of packing and accessories)				
	Accessories	2pcs probes, 1pc 2-plugs USB cable				

Automotive Diagnostic Equipment

Vehicle Diagnosis, 4CH, 60MHz

DSO3064Kits



Feature

- Vehicle Diagnosis: First Diagnosis(Cracking Exhaust Diagnosis), Ignition Action(Current/Voltage), The Sensor(Air Flow Meter, Camshaft, Crankshaft...), Bus Diagnosis(CAN Bus Data View), Performer(Petrol/Diesel), Startup & Charge(Charging Circuits Current/Voltage).
- 4 Channels and EXT trigger, 60MHz Bandwidth.
- 200MSa/s real-time sampling rate, 10k--16M memory depth per Channel.
- Frequency Counter, FFT spectrum analysis.
- 8--36V Wide range of input voltage, suitable for vehicle power.
- USB 2.0 interface plug and play, LAN and WIFI optional.
- More than 20 kinds of automatic measurement function, PASS/FAIL Check function, is suitable for engineering application.
- Software Support: Windows NT, Windows 2000, Windows XP, VISTA, Windows 7.
- Supply DEMO code (VC/VB/LABVIEW) and technical support.

Specifications

Model	DSO3064	Kit III	Kit IV	Kit V	Kit VI	Kit VII
Horizontal	Analog Channels	4				
	Bandwidth	60MHz(-3dB)				
	Rise Time	5.8ns				
	Real-Time Sampling Rate	200MSa/s				
	Time Base Range	5ns/div to 1000s/div(1-2-5 sequences)				
Vertical	Time Base Precision	±50ppm				
	Input Impedance	Resistance: 1MΩ ; Capacitance: 25 pF				
	Input Sensitivity	10mV/div to 5V/div				
	Input Coupling	AC/DC/GND				
	Vertical Resolution	8 bits				
	Memory Depth	10K-16M/CH				
Trigger	Maximum Input	400V (DC+AC Peak)				
	Source	CH1, CH2,CH3,CH4,EXT				
	Mode	Edge,Pulse,Viedo,Alternative				
	Type	Auto, Nomral and Sigle				
	Edge Trigger	Rising edge and falling edge				
	Pluse Trigger	Trigger when <, >, =, or ≠; Positive pulse or Negative pulse				
	Video Trigger	Trigger on an NTSC, PAL, or SECAM standard video signal Line Range: 1-525 (NTSC), 1-625 (PAL/SECAM)				
X-Y Mode	Alternative Trigger	CH1/CH2/ CH3/CH4: trigger on edge, pluse or video trigger				
	X-Axis Input	CH1/CH2/ CH3/CH4				
	Y-Axis Input	CH1/CH2/ CH3/CH4				
	Phrase Shift	Max.3 degree				
Measurement	Voltage Measurement	Vpp, Vamp, Vmax, Vmin, Vtop, Vmid, Vbase, Vavg, Vrms, Vcrms, Preshoot, Overshoot				
	Time Measurement	Frequency,Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle				
	Cursors Measurement	Manual: The difference between voltage cursors ΔV ; The difference between time cursors ΔT ; $1/\Delta T$ calculated by Hz.				
	Waveform Signal Process	Tracing: The voltage and time at a waveform point				
General Feature	Auto Set	+,-, x,÷, FFT, Invert yes				
	Voltage Range	10mV to 5V/div @ x 1 probe; 100mV to 50V/div @ x 10 probe 1V to 500V/div @ x 100 probe; 10V to 5000V/div @ x 1000 probe 100V to 50000V/div @ x 10000 probe; 200mV to 100V/div @ 20:1				
	Current Range	CC65(20A), CC65(60A), CC650, CC1100				
	FFT	Rectangular, Hanning, Hamming, Blackman Window				
	Math	Addition, subtraction, multiplication, division				
	Interface	USB 2.0(Lan , WIFI Optional)				
	Power Source	8--36V Wide range of input voltage,suitable for vehicle power test				
	Dimension	255 x 190 x 45 (mm)				
	Weight	1Kg				
	Accessories	PP-80	1	1	1	1
Test Leads(HT30A)		2	2	4	4	4
Auto Ignition Probe(HT25)		2	2	4	4	4
20:1 Attenuator(HT201)		2	2	4	4	4
Large Dolphin /Gator Clops(HT18A)		2	2	4	4	4
Multimeter Probes(HT19)		2	2	4	4	4
Acupuncture Probe Set (HT307)		1	1	1	1	1
Coil-on-Plug extension lends (HT308)		NO	2	4	4	4
Optional Power (HT310)		NO	1	1	1	1
CC-65		NO	NO	NO	1	1
CC-650		NO	NO	NO	NO	1
Break Out Leads(HT301)	NO	NO	NO	NO	1	

Automotive Diagnostic Equipment

Vehicle Diagnosis, 8CH, 12bits vertical resolution

DSO5080

Feature

- Highly efficient and cost-effective;
- More than 80 kinds of vehicle Diagnosis Function.
- 8 channels oscilloscope, 2.4MSa/s real time sampling rate
- 12 bits vertical resolution, spectrum analysis function
- 8 channels programmable generator
- USB 2.0 interface plug and play, and no need extra power supply;



Specifications

Model		DSO5080
Oscilloscope Mode		
Vertical	Bandwidth	100K
	Input Impedance	Resistance: 1MΩ
	Input Sensitivity	10mV/div to 5V/div
	Max. Input	400V (DC+AC Peak)
	Input Coupling	DC
Horizontal	Resolution	12 bits
	Memory Depth	4K
	Real-Time Sampling Rate	2.4MSa/s
	Time Base Range	1ns/div to 20000s/div(1-2-5 sequences)
Trigger	Time Base Precision	±50ppm
	Source Mode	CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8 Edge
X-Y Mode	X-Axis Input	CH1/CH2/ CH3/CH4/CH5/CH6/CH7/CH8
	Y-Axis Input	CH1/CH2/ CH3/CH4/CH5/CH6/CH7/CH8
Measurement	Voltage Measurement	Vpp, Vamp, Vmax, Vmin, Vtop, Vmid, Vbase, Vavg, Vrms, Vcrms, Preshoot, Overshoot
	Time Measurement	Frequency, Period, Rise Time, Fall Time, Positive Width, Negative Width, Duty Cycle
	Cursors Measurement	Horizontal, Vertical, Track, Auto Measure Modes
	Waveform Signal Process	+, -, x, ÷, FFT, Invert
	FFT	Rectangular, Hanning, Hamming, Blackman Window
Other	Math	Addition, subtraction, multiplication, division
	Voltage Range	10mV to 5V/div @ x 1 probe; 100mV to 50V/div @ x 10 probe; 100V to 50000V/div @ x 10000 probe; 200mV to 100V/div @ 20:1
	Current Range	100mA to 50.0A/div @ CC65(20A); 1000mA to 500.0A/div @ CC65(65A); 1A to 100.0A/div @ CC650(60A); 10A to 1000.0A/div @ CC650(650A); 1A to 200.0A/div @ CC1100(100A); 10A to 2000.0A/div @ CC1100(1100A)
Programmable Generator		
Channel		8
Output Level		5V COMS
Frequency Range		0-250kHz
Interface		USB 2.0
Power		No need extra power supply
Mechanical	Size	185 x 150 x 27 (mm)
	Weight	0.35kg

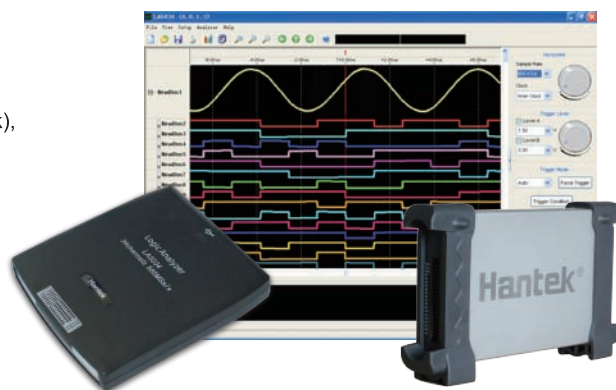
PC USB Logic Analyzer

34/32 data input channels, 500/400MHz, 2K/64M Sample Depth

LA5034/Hantek4032L

Feature

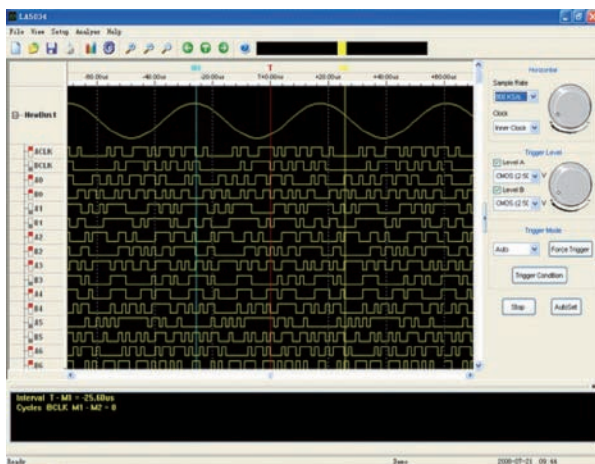
- Up to 34/32 data input channels.
- High speed operation ,500MHz/400MHz Timing-Mode (Internal Clock), 200MHz State-Mode (External Clock)
- Deep data buffers (up to 2K/64M samples per channel)
- Continuously variable pre/post trigger position,
- Advanced Multi-Level Triggering
- +6V to -6V Adjustable Logic Threshold
- Built-in 250MHz Frequency Counter, USB Compatible



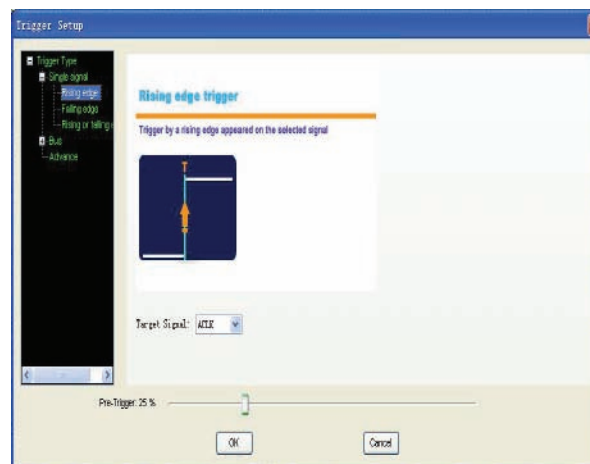
Specifications

Model	LA-5034	Hantek4032L
Sampled Channels	34	32
High Input Impedance		200K (C=10p)
Input Voltage Range		-60V~60V
Logic Threshold Range		-6V~6V
Max. Sample Rate	500MHz	400MHz
Max. Input Signal Bandwidth		150MHz
Min. Time Resolution	2ns	2.5ns
Sample Depth	2K	64M
Storage Depth	68Kbits	2Gbits
Trigger's Max. Rate		250MHz
Compatible Input	TTL,LVTTL,CMOS,LVCOMS,ECL,PECL,EIA	
Electrostatic Protected	15KV	
Power	USB Port	
Temperature Range	-10°C~60°C	
Dimension	Length: 200mm Width: 150mm Height: 25mm	
Weight	0.5 KGS	
Accessories	1pc 2-plugs USB cable, 1 bag Little Test Hook	

Powerful Function



LA5034 Main Interface



Trigger Setting Window

USBXI Instruments

Simultaneous synchronization between modules, Oscilloscopes, Multimeters, Logic analyzers, DC power supply, Arb waveform generator, Frequency counter, Field strength meter....

USBXI-1070A/B/C



Features & Specifications

- Simultaneous synchronization between modules
- High-speed USB 2.0, Hot-swappable and auto-detectable characteristic minimizes startup time/effort
- Winxp/Win7 Microsoft® Windows® operating system,touch screen,easy to second development.
- Easy to set up local/wide area network by WIFI/Lan.
- USB/LAN/WIFI/RGB,and mouse keyboard supported
- The chassis supports the following USB modular products:Oscilloscopes, Multimeters, Logic analyzers, DC power supply,Arb waveform generator,Freqency counter,Field strength meter....

Model	USBXI-1070A	USBXI-1070B	USBXI-1070C
Computer	Yes	Yes	No
Touch Screen	Yes	No	No

Standard Module

Power Supply	Oscilloscope	AFG	Logic Analyzer	Data Logger
Hantek1004A	Hantek6052BE	Hantek1025G	Hantek4032L	Hantek365A

★ Power Supply Hantek1004A

Voltage feature

- Low ripple and low noise; Support high accuracy and dynamic programme output;
- Automatic data storage function; Support UXI protocol;
- Input voltage range: DC +12~18V;

Voltage source specification:

- Nominal voltage output:
Channel 1: DC -5V, 300mA Max; Channel 2: DC +5V, 2000mA Max;
Channel 3&4: DC 0~9V voltage floating output, 2000mA Max;
- Setup voltage resolution: DC 10mV; Setup voltage accuracy: 0.1%;
- Readback voltage resolution: DC 10mV; Readback voltage accuracy: 0.1%;
- Ripple: 2.5mVp-p.

★ Oscilloscope Hantek6052BE

- 2 Channels, 50MHz bandwidth, 150MSa/s Real sample rate;
- Built in multi-language, easy to use.
- 23 measurement functions, PASS/FAIL Check, and within the FFT function.

★ Logic Analyzer Hantek4032L

- 32 Channelsm, 2Gbit memory depth, 400MSa/s sampling rate;
- The innovative trigger mode and new analysis measurement tool make your measurement simple and efficient.
- Its innovative data analysis function makes your analyze UART, SPI, and I2C etc. data more easy and relax.
- The strong protocol secondary analytic capability is able to export files in CSV, TXT, DOC format.

★ Arb. Waveform Generator Hantek1025G

- 200MSa/s sample rate, 12 bits of vertical resolution;
- 25MHz arbitrary waveform output. (Sine wave up to 75 MHz).
- 50 MHz Frequency Counter.
- Programmable Pattern Generator.

★ Data Logger Hantek365A

- Simple, handy and flexible control software.
- Long time record, voltage, current, resistance, capacitance and on-off etc. in real time, and create trend curves.

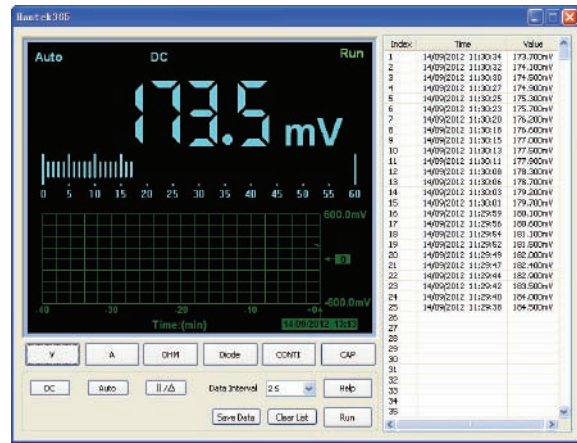
Optional Module

Power Supply	Oscilloscope	Arb. Waveform Generator	Logic Analyzer	Data Logger
Hantek1004A	Hantek6022BE	Hantek1025G	Hantek4032L	Hantek365A
...	Hantek6052BE	Hantek365B
	Hantek6082BE			Hantek365C
	Hantek6102BE			Hantek365D
	Hantek6202BE			...
	...			

Bluetooth/USB Data Logger

Makes your mobile phone multimeter and data logger

Hantek365A/B/C/D



Feature

- Makes your mobile phone multimeter and data logger.
- Wireless connect by bluetooth or usb
- High performance to price ratio.Lithium battery inside.
- Six measurement function: voltage, current, resistance, capacitance, doide and continuity

Specifications

Range	Accuracy	Resolution			
DC Voltage	±1%±1 digit	60.00mV	10uV		
		600.00mV	100uV		
		6.000V	1mV		
		60.00V	10mV		
		600.0V	100mV		
		800V	1V		
AC Voltage	±1%±3 digit	60.00mV	10uV		
		600.0mV	100uV		
		6.000V	1mV		
		60.00V	10mV		
DC Current	±1.5%±1 digit	60.00mA	10uA		
		600.0mA	100uA		
		6.000mA	1mA		
		10.00A	10mA		
		AC Current	±1.5%±3digit	60.00mA	10uA
				600.0mA	100uA
Resistance	±1%±1digit	6.000A	1mA		
		10.00mA	10mA		
		600.0	0.1Ω		
		6.000K	1Ω		
Capacitance	±1%±1digit	60.00K	10Ω		
		600.0K	100Ω		
		6.000M	1KΩ		
		60.00M	10KΩ		
		40.00nF	10pF		
		400.0nF	100pF		
Diode	±1%±1digit	4.000uF	1nF		
		40.00uF	10pF		
		400.0uF	100pF		
		Attention: The smallest capacitance value that can be measured in 5nF.			

Test Accessories



AC/DC Current Clamp CC-65



AC/DC Current Clamp CC-650



AC/DC Current Clamp CC-1100



20:1 Attenuator (HT201)



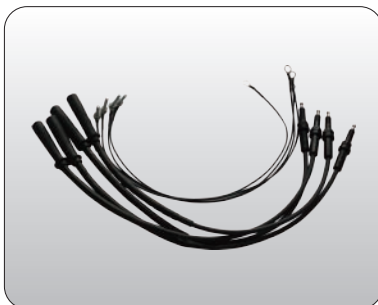
Oscilloscope Probe



little test hook(HT321)



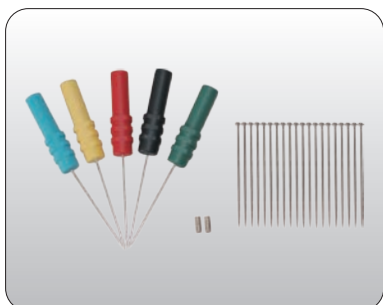
Auto Ignition Probe(HT25)



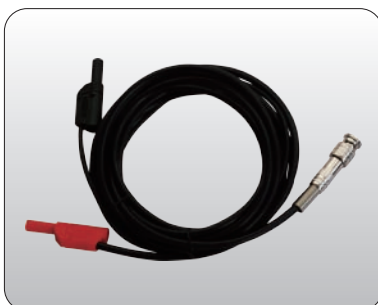
Coil-on-Plug extension leads(HT308)



BNC to 4 mm Adapter (HT311)



Acupuncture Probe Set (Needle 307)



Test leads(HT30A)



BNC to BNC Cable with Earth Clamp (TA033)