DSO8060 Five-in-one Handheld Oscilloscope

Hantek®

Characteristic(Handheld Oscilloscope/Multimeter)

- DSO8060 Five-in-one Handheld Oscilloscope.Oscilloscope/DMM/ Spectrum Analyzer/Frequency Counter/Arbtrary Waveform generator.
- High Bandwidth 60MHz Oscilloscope ,and 6000 COUNTS high precision DMM.Seperated GND Reference.Hardware Frequency Counter.
- Arbitrary Waveform Generator: 25Mz arbitrary waveform output, (sine wave can deliver up to 75 Mz) 200 MSa / s DDS, 12 bits of vertical resolution.
- FFT , + , - , * , / ,X-Y, 22 kinds of auto measurements, PASS/FAIL Check ,easy to use on production line.
- High refresh rate， High Real-time Sample Rate 150MS/s-2GS/s, 50GS/s Equivalent-time Sample Rate.
- Multiform Trigger mode ,2 separate Time Base in ALT Trigger mode ,easy to see 2 signal with different frequency.
- 1000 waveforms save and record.
- Excellent Industrial Design .Direct key for Each Channel ,Time base ,Trigger and DMM,easy to operate.
- Large 5.7 inch TFT Color LCD Display ,Led backlight,Display clearly.
- USB Host/Device 2.0 full-speed interface ,support removeable disk, RS-232/LAN Optional ,Easy to control by PC or long-distance.
- Battery Power Operation (Installed) Industrial Design.
- Save waveform in the following: jpg/bmp graphic file, MS excel/word file.
- Dimensions (mm):240(L)x165(W)x50(H), be carried easily.
- Labview\VB\VC Second Design instance.

Hardware Specification

Mode			DSO8060
Oscilloscope Mode	Vertical	Channel	2
		Bandwidth	60MHz
		Rise Time	5.8ns
		Input Impedance	Resistance: 1M ; Capacitance: 15 pF

		Input Sensitivity	10mV/div to 5V/div
		Input Coupling	AC, DC and GND
		Vertical Resolution	8 bits
		DC Gain Accuracy	±3% for Sample or Average acquisition mode
		Maximum Input	400V (DC+AC Peak)
	Horizontal	Real-Time Sampling Rate	250MSa/s
		Equivalent Sampling Rate	50GSa/S
		Memory Depth	32k single channel, 16k double channels
		Time Base Range	5ns/div~1000s/div
		Time Base Precision	±50ppm
	Trigger	Trigger Source	CH1, CH2，EXT
		Trigger Mode	Edge, Pulse Width, Alternative, Video
		Trigger Sensitivity (Edge Trigger Type)	1div from DC to 10MHz; 1.5div from 10MHz to 100MHz; 2div from 10MHz to Full;
		Trigger Level Accuracy, typical (Accuracy is for signals having rise and fall times ≥20ns)	±(0.3div×V/div) (within ±4 divisions from center of screen)
	X-Y Mode	X-Axis Input	channel 1
		Y-Axis Input	channel 2
		Phrase Shift	Max.3 degree
	Auto Measure	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
		Delay Measurement	Delay time from ch1 rising edge to ch2 rising edge
	Cursor Measure	Cursors Measurement	Manual, Track, Auto Measure Modes

	Data Deal	Data Deal	CH1+/- CH2, CH1xCH2, CH1/CH2, FFT, Invert
	Internal Storage	Internal Storage	15 Waveforms and Setups
Multimeter Mode		Maximum Resolution	6,000 Counts
		Function	Voltage, Current, Resistance, Capacitance, Diode & Continuity
		Maximum Input Voltage	AC: 600V, DC: 800V
		Maximum Input Current	AC: 10A, DC: 10A
		Input Impedance	10 MΩ
Signal Source Mode		Waveform Frequency	DC~25MHz
		DAC Clock	2K~200MHz adjustable
		Frequency Resolution	0.1%
		Channel count	1CH waveform output
		Waveform Depth	4KSa
		Vertical Resolution	12 bit
		Frequency Stability	<30ppm
		Waveform Range	±3.5V Max.
		Output Impedance	50 Ω
		Output Current	50mA Ipeak=50mA
		System BW	25M
		Harmonic Distortion	-50dBc(1KHz), -40dBc(10KHz)
Measure Frequency Channel		Frequency Range	DC~60MHz
		Input Range	400mVpp~18Vpp
		Coupling Mode	DC
		Frequency Measurement Accuracy	±Time Base Error ±1 Count
		Input Impedance	> 100KΩ
Digital in/out		Bit	12 Bits Digital Generator Output and 6Bit Generator In
		Level	LVCMOS
Display		TFT LCD Type	5.7 Inch with LED Backlight Display
		Display Resolution	240 (Vertical) x 320 (Horizontal) Dots

Interface	Standard	USB Host / Device 2.0 Full Speed Supported
	Option	RS232, LAN
Power Source	Power Adapter	Input AC 100V ~ 240V, 50Hz ~ 60Hz;output 8.5VDC, 1500mA
	Battery Power(Standard)	6 Hours (Li-ion Battery)
Others	Size	245 x 163 x 52 (mm)
	Separated GND Reference	Oscilloscope and Multimeter Independence

Software：

Operating system:Windows 7, Windows NT, Windows 2000, Windows XP ,VISTA

SecondDesign：

Supply DEMO code (VC、VB、LABVIEW)