DSO5000B Series Digital Storage Oscilloscope



Hantek®

Bandwidth:60-200MHz,1GSa/s Real Time sample rate Large (7.0-inch) color display,WVGA(800x480) Record length up to 1M Features:

- 200/100/60MHz bandwidths
- •1GSa/s Real Time sample rate
- Large (7.0-inch) color display,WVGA(800x480)
- Record length up to 1M
- Trigger mode: edge/pulse width/line selectable video/slop/overtime etc.
- USB host and device connectivity, standard
- Multiple automatic measurements
- Four math functions, including FFTs standard
- Provides software for PC real-time analysis

Hardware Specification

Model	DSO5202B	DSO5102B	DSO5062B	
Bandwidth	200MHz	100MHz	60MHz	
Real-time	1GSa/s			
Sample Rate				
Equivalent	25GSa/s			
Sample Rate				
Record	Single-channel: Maximum 1M; Dual-channel:Maximum 512K (4K,16K,40K optional)			
Length(Sampl				
e Points)				
SEC/DIV	4nS/div-40S/div (in a 2, 4, 8 sequence)			
Range				

Delay Time Accuracy	500ps				
Vertical					
A/D Converter	8-bit resolution, each channel sampled simultaneously				
VOLTS/DIV Range	2mV/div∼5V/div at input BNC				
Position Range	$\pm 50 \text{V}(5 \text{V/div}), \pm 40 \text{V}(2 \text{V/div} \sim 500 \text{mV/div}), 2 \text{V}(200 \text{mV/div} \sim 50 \text{mV/div}) \pm 400 \text{mV}(20 \text{mV/div})$ $\text{div} \sim 2 \text{mV/div})$				
Rise Time at BNC	≤1.7ns	≤3.5ns	≤5.8ns		
DC Gain Accuracy Trigger	±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: CH1/CH2(Typical) 1div from DC to 10MHz;1.5div from 10MHz to Full EXT (Typical) 200mV from DC to 40MHz EXT/5 (Typical) 1V from DC to 40MHz AC: Attenuates signals below 10Hz HF Reject: Attenuates signals above 80kHz LF Reject: Attenuates signals below 150kHz				
Trigger Level	Noise Reject: Reduces trigger sensitivity CH1,CH2: ±8 divisions from center of screen				
Range	EXT: ±1.2V EXT/5: ±6V				
Trigger Level Accuracy, typical (Accuracy is for signals having rise and fall times ≥20ns)	CH1,CH2: ±(0.3div×V/div) (within ±4 divisions from center of screen) EXT: ±(6% of setting + 40mV) EXT/5: ±(6% of setting + 200mV)				
Holdoff Range	100ns-10s				
Trigger Type					
Edge	Trigger on the rising or falling edge				
Pulse Width	Trigger (when >,<,=,≠) on positive or negative pulses Pulse Width Range: 20ns-10s				
Video	Trigger on an NTSC, PAL, or SECAM standard video signal Line Range: 1-525 (NTSC), 1-625 (PAL/SECAM)				

Trigger (when >,<,=,≠) on a positive or negative slope Set Time: 20ns–10s				
from the rising or falling edge Set Time: 20-10s				
Internal trigger on edge, pulse width, video or slope				
Measurement				
Manual: The difference between voltage cursors $\triangle V$; the difference between time cursors $\triangle T$; $1/\triangle T$ calculated by Hz. 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, RPREShoot, BWIDTH、FRF、FFR、LRR、LRF、LFR、LFF				
Display				
Right angle 7"TFT 16-digit color LCD				
800*480 dots				
16 gears, with the progress bar to show adjustment				
USB host and USB slave				
Power Supply				
100-120VACRMS(±10%), 45Hz to 440Hz, CAT II 120-240VACRMS(±10%), 45Hz to 66Hz, CAT II				
<30W				
2A, T rating, 250V				
Length: 313mm Width: 108mm Height: 142mm				
2.08KG (exclusive of packing and accessories)				

6. Software:

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