

DSO5000P Series Digital Storage Oscilloscope



Hantek®

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

Features

- 200/100/70MHz bandwidths
- 1GSa/s Real Time sample rate
- Large (7.0-inch) color display,WVGA(800x480)
- Record length up to 24K
- 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

Specifications

| Model | DSO5202P | DSO5102P | DSO5072P |
|------------------------|---|----------|----------|
| Bandwidth | 200MHz | 100MHz | 70MHz |
| Real-time Sample Rate | 1GSa/s | | |
| Equivalent Sample Rate | 25GSa/s | | |
| Record Length | 24K | | |
| SEC/DIV Range | 4nS/div-40S/div (in a 2, 4, 8 sequence) | | |
| 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 | ±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 System | | | |
| Trigger Sensitivity (Edge Trigger Type) | DC: 1div from DC to 10MHz;1.5div from 10MHz to 100MHz; 2div from 100MHz to 200MHz; EXT: 200mV from DC to 40MHz EXT/5:1V from DC to 40MHz AC: Attenuates signals below 10Hz HF Reject: Attenuates signals above 80kHz LF Reject: Attenuates signals below 150kHz Noise Reject: Reduces trigger sensitivity | | |
| Trigger Level Range | CH1,CH2: ±8 divisions from center of screen EXT: ±1.2V EXT/5: ±6V | | |
| Trigger Level Accuracy, typical (Accuracy is for signals having rise and fall times ≥20ns) | CH1,CH2: ±(0.3div×V/div) (within ±4 divisions from center of screen) EXT: ±(6% of setting + 40mV) EXT/5: ±(6% of setting + 200mV) | | |
| Holdoff Range | 100ns-10s | | |
| 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) | | |
| Slope | Trigger (when >,<=,≠) on a positive or negative slope Set Time: 20ns-10s | | |
| Overtime | from the rising or falling edge Set Time: 20-10s | | |
| Alternate | Internal trigger on edge, pulse width, video or slope | | |
| Measurement | | | |
| Cursors | Manual: The difference between voltage cursors ΔV ; the difference between time cursors ΔT ; $1/\Delta T$ calculated by Hz. Tracing: The voltage and time at a waveform point; | | |
| Automatic(32) | 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 | | | |
| Type | Right angle 7"TFT 16-digit color LCD | | |
| Resolution | 800*480 dots | | |

| | |
|--------------|---|
| Contrast | 16 gears, with the progress bar to show adjustment |
| Interface | USB host and USB slave |
| Power Supply | |
| Voltage | 100-120VACRMS($\pm 10\%$), 45Hz to 440Hz, CAT II 120-240VACRMS($\pm 10\%$), 45Hz to 66Hz, CAT II |
| Power | <30W |
| Fuse | 2A, T rating, 250V |
| Mechanical | |
| Size | Length: 313mm Width: 108mm Height: 142mm |
| Weight | 2.08KG (exclusive of packing and accessories) |