

1GSa/s,200/100/70MHz,1M Memory

DSO 5000 Series

Feature

- 200/100/70MHz Bandwidth with 2 Channels
- 1GSa/s Real Time sample rate
- Record length up to 1M
- Large (7.0-inch) color display, WVGA(800*480)
- Up to 2500wfms/s waveform update rate
- Trigger modes:edge,pulse width,slope,video,alternate trigger
- USB Host and device connectivity, standard
- Provides software for PC real-time analysis



MEGATEK™

Specification	Model	DSO5200	DSO5100	DSO5070
Horizontal	Bandwidth	200MHz	100MHz	70MHz
	Real-time Sample Rate	1GSa/s		
	Equivalent Sample Rate	25GSa/s		
	Record Length(Sample Points)	Single-channel: Maximum 2M; Dual-channel: Maximum 1M(4K,16K,40K optional)		
	SEC/DIV Range	4nS/div-40S/div (in a 2, 4, 8 sequence)		
	Delay Time Accuracy	500ps		
	Video Help	Yes		
	Waveform	(sin X)/X		
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: CH1 / CH2 (Typical) 1div from DC to 10MHz; 1.5div from 10MHz to Full; EXT (Typical) 200mV from DC to 40MHz; EXT/5 (Typical) 1V from DC to 40MHz; AC: Attenuates signals below 10Hz; HF Reject: Attenuates signals above 80kHz; LF Reject: Attenuates signals below 150kHz; Noise Reject: Reduces trigger sensitivity		
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen, EXT: ±1.2V EXT/5: ±6V		
	Trigger Level Accuracy, typical (accuracy is for signals having rise and fall times ≥20ns)	CH1, CH2: ±(0.3div x 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 positive or negative slope Set Time: 20ns-10s		
	Overtime	from the rising or falling edge Set Time: 20ns-10s		
	Alternate	Internal trigger on edge, pulse width, video or slope		
Measurement	Cursors	Manual: The difference between voltage cursors ΔV; The difference between time cursors ΔT; 1/ ΔT calculated by Hz.Tracing: The voltage and time at a waveform point		
	Automatic	Pk-Pk, Max, Min, Mean, Cyc RMS, Frequency, Period, Rise Time, Fall Time, Positive Width, Negative Width		
Display	Type	Right angle 7" TFT, 16-digit color LCD		
	Resolution	800*480 dots		
	Contrast	16 gears, with the progress bar to show adjustment		
	Interface	USB host and USB slave		
Power Supply	Voltage	100-120V AC RMS(±10%), 45Hz to 440Hz, CAT II 120-240V AC RMS(±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)		