DSO 3000 Series Oscilloscope

(70 - 200MHz, 1GSa/s, 40K Memory Depth, Arbitrary/Function Waveform Generator)

Key Features

- 200 / 100 / 70MHz bandwidths
- Arbitrary/Function Waveform Generator + Synchronizing Signal + External Trigger
- 1GSa/s Real Time sample rate
- 7'' large color display, WVGA (800x480)
- 2 Channels, 40K Memory Depth
- 30+ kinds of Automotive measurement, with FFT function
- Powerful trigger function: Video, Edge, Pulse Width, Slope, Overtime, Alternate etc.
- Support SD card, VGA function (optional);
- Integrated USB Host, Support USB disk storage, USB interface / SD card system update
- Arbitrary/Function Waveform Generator: 25MHz, 12 bits resolution, 200MHz DDS

Typical Applications

- Design and Debug
- Education and training
- Manufacturing Test and Quality Control
- Service and Repair
- Electronic Circuit Designing and Testing

Saluki DSO3000 Series Oscilloscope provides you multifunctional and excellent performance in a compact design. Packed with standard functions of Oscilloscope, Arbitrary/Function Waveform Generator, Synchronizing Signal and External Trigger, also features-including USB connectivity, 20 automated measurements, limit testing, data loading, and context-sensitive make the instruments help you get more done in less time. Meanwhile the keys for oscilloscope and waveform generator is separated for convenient to operate it simultaneously. All these makes the DSO3000 a good choice for you.

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Technical Specifications

Model	DSO3202	DSO3102	DSO3072
Horizontal			
Bandwidth	200MHz	100MHz	70MHz
Sampling Rate Range	1GSa/s		
Equivalent Sample Rate	25GSa/s		
Memory Depth	40K		
SEC / DIV Range	2ns/div - 40s/div	4ns/div - 40s/div	
Delay Time Accuracy	±50ppm in any ≥1ms time intervals		
Delta Time Measurement Accuracy (full bandwidth)	Single-shot Normal mode: ± (1 sample interval +100ppm x reading + 0.6ns)		
	>16 averages: ± (1 sample interval + 100ppm × reading + 0.4ns)		
	Sample interval = s/div ÷ 200		
Vertical			
A/D Converter	8-bit resolution, each channel sampled simultaneously		
VOLTS/DIV Range	2mV/div - 10V/div at input BNC		
Position Range	2ns/div to 10ns/div	20ns/div to 80us/div (-8div x s/div) to 40ms;	
	(-4div x s/div) to 20ms	200us/div to 40s/div (-8div x s/div) to 400s	
Rise Time at BNC	1.8ns	3.5ns	5ns
DC Gain Accuracy	±3% for Normal or Average acquisition mode, 5V/div to 10mV/div		
	±4% for Normal or Average acquisition mode, 5mV/div to 2mV/div		
Trigger			
Trigger Sensitivity (Edge Trigger Type)	DC (Internal)	1div from DC to 10MHz; 1.5div from 10MHz to 100MHz 2div from 100MHz to Full	
	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	

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Trigger		
Trigger Sensitivity (Edge Trigger Type)	AC	Attenuates signals below 10Hz
	HF Reject	Attenuates signals above 80kHz
	LF Reject	Same as the DC-coupled limits for frequencies above 150kHz; Attenuates signals 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 x V/div) (within ± 4 divisions from center of screen)
	EXT	± (6% of setting + 40mV)
	EXT/5	± (6% of setting + 200mV)
Hold off Range	100ns - 10s	
Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz	
Trigger Type	Video, Edge, Pulse Width, Slope, Overtime, Alternate Trigger.	
Acquisition		
Normal	Normal Data only	
Peak Detect	High-frequency and random glitch capture	
Average	Waveform Average, selectable 4,8,16,32,64,128	
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	
Max. Input Voltage	CAT I and CAT II: Installation type 300VRMS(10x) CAT III: 150VRMS(x)	

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Measurement	
Cursors	Voltage difference between cursors: △V
	Time difference between cursors: △T
	Reciprocal of △T 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

Signal Source Mode	
Waveform Impedance	DC - 25MHz
Sample Rate	200MHz DDS
Output Waveform	Arbitrary wave, Square wave, Sine wave, Triangle wave, Trapezoidal wave, Pulse wave, DC
Frequency Resolution	0.10%
Waveform Depth	2KSa
Vertical Resolution	12bit
Frequency Stability	＜30ppm
Waveform Range	-3.5V ~ +3.5V
Output Impedance	50Ω
System BW	25M
Harmonic Distortion	-50dBc（1KHz），-40dBc（10KHz）

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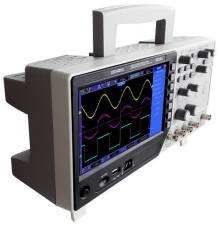
General Information

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)

Standard Package

Main Machine



2 passive probes

Plug

USB Cable

Note: *Information will conduct the necessary updates， the contents of this document are subject to change without notice*

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