

Rigol DS1000A Series Oscilloscope

Model	DS1062CA	DS1102CA	DS1202CA	DS1302CA
Bandwidth	60MHz	100MHz	200MHz	300MHz
Real-time Sample Rate	2 GSa/s(Single Channel), 1 GSa/s(Dual Channels)			
Equivalent Sample Rate	50 GSa/s			
refresh rate	2000 wfms/s			
Memory Depth	10 kpts (Single Channel), 5 kpts (Dual Channel)			



Advanced Features

1. The 2 GSa/s maximum real-time sample rate, the 50 GSa/s maximum equivalent time sample rate and up to 300 MHz of bandwidth ensures you capture and observe your entire signal
2. Up to 2000 wfms/s refresh rate
3. Ultra Compact Design with small footprint save your bench space
4. 5.7" 64K TFT color LCD, bright and vivid waveform display
5. Memory depth: 10 kpts (Single Channel),
5 kpts (Dual Channels)
6. Versatile trigger modes: Edge, Video, Pulse Width, Slope, Alternate
7. Adjustable trigger sensitivity: Effectively filter noise from trigger signal and avoid false trigger
8. 20 automatic measurements
9. Cursor measurements: Manual, Track and Auto Measure modes
10. 10 waveforms, 10 setups, BMP and CSV storage
11. Math functions: Add, Subtract, Multiply, FFT, Invert
12. Special digital filter and waveform recorder
13. Built-in hardware frequency counters
14. Dual channels plus external trigger. Bandwidth including 60 MHz, 100 MHz, 200 MHz, 300 MHz
15. Standard interface: USB Device, RS-232 □ USB Host, to support USB disk and USB printer
16. Standard configuration: Pass/Fail test, the signal out of the pass fail function is isolated to prevent unwanted interference
17. Multi-language user interface, built-in help system

Performance Characteristics

Model		DS1062CA	DS1102CA	DS1202CA	DS1302CA
Bandwidth		60 MHz	100 MHz	200 MHz	300 MHz
Memory Depth		10 kpts (Single Channel), 5 kpts (Dual Channel)			
Channels		Dual Channels + External Trigger			
Real-time Sample Rate		2 GSa/s(Single Channel), 1 GSa/s (DUal Channel)			
Equivalent Sample Rate		50 GSa/s			
Rise Time		5.8 ns	3.5 ns	1.7 ns	1.1 ns
Time Base Range		5 ns/div to 50 s/div		2 ns/div to 50 s/div	1 ns/div to 50 s/div
Input Impedance		1 M Ω 15 pF		1 M Ω 15 pF □ 50 Ω	
Time Base Precision		±50ppm			
X-Y Operation	Bandwidth	60 MHz	100 MHz	200 MHz	300 MHz
	Phase Difference				
± 3°					
Trigger Modes		Edge, Video, Pulse Width, Slope, Alternative			
Trigger Sources		CH1 □ CH2 □ Ext □ Ext/5 □ AC Line			

Common Parameters

Vertical Sensitivity	2 mV/div to 10 V/div
Vertical Resolution	8 bits
Input Coupling	DC, AC, Ground
Maximum Input Voltage	
300 V (DC + AC peak)	
Roll Range	500 ms/div to 50 s/div
Automatic Measurements	Vpp, Vamp, Vmax, Vmin, Vtop, Vbase, Vavg, Vrms, Preshoot, Overshoot, Frequency, Period, Rise Time, Fall time, Positive Width, Negative Width, Positive Duty Cycle, Negative Duty Cycle, Delay1→2  , Delay 1→2 
Cursor Measurements	Manual, Track and Auto Measure modes
Math	Add, Subtract, Multiply, FFT, Invert
Storage	Internal □ 10 Waveforms and Setups
	USB □ BMP, CSV, Waveforms and Setups
I/O	USB Device □ USB Host □ RS-232 □ P/F Out (Isolated)
Display	TFT (64K, Color LCD), 320 x 234
Power	Worldwide Use, 100 – 240 V / 50 VA Max
Weight	2.3 kg