



Application

1. Design and Debug
2. Education & Training
3. Manufacturing
4. Service & Repair

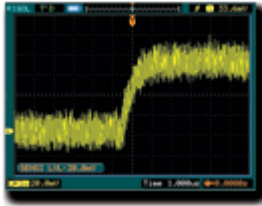
Product Dimensions: Weight: 2.3 kg
 Width×Height×Depth = 303mm×154mm×133mm

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

Versatile Trigger Modes



Adjustable Trigger Sensitivity: The ability to filter noise from the signal avoids false triggers



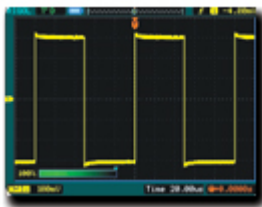
Alternative Trigger: Provides a true dual time base display that was common in analog oscilloscopes



Slope Trigger: Triggers on the signals rise time or fall time that is user defined



Rise Edge and Fall Edge Trigger: Mainly used to view eye-diagrams formally only available in more advanced DSO's



Waveform Intensity: Adjustable waveform intensity provides a personalized waveform display



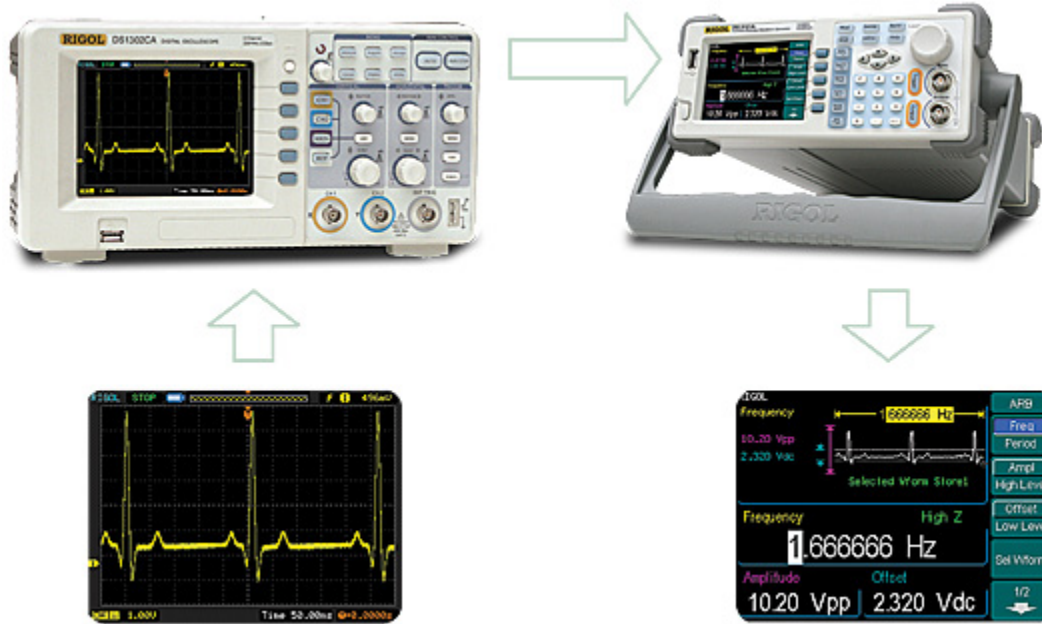
File System: Easy-to-use file system allows for both USB disk and local file storage



Built-in Help System: Press current key for 3 seconds to enter help system

Signal Regeneration

The DS1000CA series can be directly connected with the Rigol DG series function/arbitrary waveform generators. When connected with the built-in USB port of DS1000CA, the DG series function/arbitrary waveform can regenerate waveforms by visiting waveform memories of the latter's.



Standard Accessories



Power Cord



Probe × 2



User Manual

Optional Accessories



USB-GPIB interface



USB Data wire





RS-232 Cable



Instrument Bag

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	\pm 50ppm				
X-Y Operation	Bandwidth	60 MHz	100 MHz	200 MHz	300 MHz
	Phase Difference	\pm 3 $^{\circ}$			
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 \rightarrow 2  , Delay 1 \rightarrow 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				