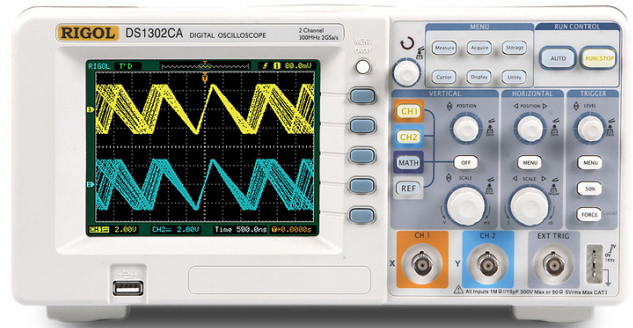


# DS1000A Series Digital Oscilloscopes

RIGOL DS1000A is the first national digital oscilloscope with 2GSa/s real-time sample rate, 50GSa/s equivalent sample rate, and up to 300MHz bandwidth. These high performances ensure not only to capture real-time instantaneous signal, but also to observe details of repeated signal. DS1000A have up to 2000 wfms/s refresh rate, which enable users to capture instantaneous signal and abnormal signal more quickly, to enhance waveform capturing ability, and to expedite circuit debug course. Other advantages: 64K 5.7" color LCD, bright and vivid waveform display; versatile trigger modes: slope, alternative, rise&fall edge, enable users to stabilize signal more easily. In economical oscilloscope field, DS1000A have no doubt the highest performances, the most functions thus should be engineers' best choice.



## Model Numbers

Model	DS1062CA	DS1102CA	DS1202CA	DS1302CA
Bandwidth	60 MHz	100 MHz	200 MHz	300 MHz
Pricing	\$995	\$1,295	\$1,595	\$1,995

## System Information

Product Dimensions: Width x Height x Depth = 303mm x 154mm x 133mm

Weight: 2.3kg

Application: Design and Debug, Education & Training, Manufacturing, Repair

2 Gsa/s maximum real time sample rate and 50 GSa/s maximum equivalent time sample rate with bandwidth options up to 300 MHz

Up to 2000 wfms/s referesh rate provides the most responsive display in this class of product

Ultra compact design saves desktop space

5.7" 64K TFT Color Display with Vivid Display

Versatile trigger modes: Edge, Video, Pulse Width, Slope, Alternate

Built-in USB Host to support USB flash memory, USB printer and direct system upgrade.

888-610-7664

910-442-2164 (Local)

910-401-1114 (Fax)

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311 Judges Road, Suite 12E

Wilmington, NC 28405

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## Performance Characteristics

Model	DS1062CA	DS1102CA	DS1202CA	DS1302CA
Bandwidth	60MHz	100MHz	200MHz	300MHz
Memory Depth	10 kpts (Single Channel), 5kpts (Dual Channels)			
Channels	Dual Channels + External Trigger			
Real-time Sample Rate	2 GSa/s (Single Channel), 1 GSa/s (Dual Channels)			
Equivalent Time Sample Rate	50 GSa/s			
Rise Time	5.8 ns	3.5 ns	1.7 ns	1.2 ns
Time Base Range	5 ns/div to 50 s/div	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 $\Omega$    15 pF		1 M $\Omega$    15 pF, 50 $\Omega$	
Trigger Modes	Edge, Video, Pulse Width, Slope, Alternate			
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
Cursor Measurements	Manual, Track and Auto Measure modes
Math	Add, Subtract, Multiply, FFT, Invert
Storage	Internal: 10 Waveforms and 10 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

## Advanced Features

- The 2 GSa/s maximum real-time sample rate, the 50 GSa/s maximum equivalent time sample rate and up to 300 MGz of bandwidth ensures you capture and observe your entire signal.
- Up to 2000 wfms/s refresh rate
- Ultra Compact Design with small footprint save your bench space
- 64 TFT color LCD, bright and vivid waveform display
- Memory depth: 10kpts (Single Channel), 5 kpts (Dual Channels)
- Versatile trigger modes: Edge, Video, Pulse Width, Slope Alternate
- 20 automatic measurements
- Cursor measurements: Manual, Track and Auto Measure Modes
- 10 waveforms, 10 setups, BMP and CSV storage
- Math functions: Add, Subtract, Multiply, FFT, Invert
- Special digital filter and waveform recorder
- Built-in hardware frequency counters
- Dual channels plus external trigger. Bandwidth including 60MHz, 100MHz, 200MHz, 300MHz
- Standard configuration: Pass/Fail test, the signal out of the pass fail function is isolated to prevent unwanted interference.
- Multi-language user interface, built-in help system

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