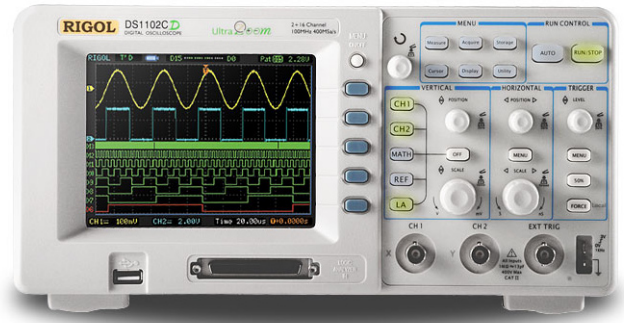


# DS1000 Series Digital Oscilloscopes

DS1000 is the first MSO (Mixed Signal Oscilloscope) in the same range of oscilloscopes. It not only has compact design and 64K TFT color LCD, but also powerful functions: up to 1M memory depth, with Ultrazoom function, it can enable users to observe details while survey the whole waveform; 7 trigger modes, adjustable trigger sensitivity, USB Host to support USB flash memory and USB printer, and other traditional functions of RIGOL oscilloscopes. DS1000 is a perfect choice when electronic engineers do test&measurement work.



## Model Numbers

Model	DS1022C	DS1042C	DS1062C	DS1102C	DS1022CD	DS1042CD	DS1062CD	DS1102CD
Bandwidth	25 MHz	40 MHz	60 MHz	100 MHz	25 MHz	40 MHz	60 MHz	100 MHz
Pricing	\$499	\$699	\$799	\$999	\$699	\$999	\$1,199	\$1,499
Configuration	Scope Only				Scope and Logic Analyzer			

## Common Parameters

Input Impedance	1 M $\Omega$    15pF
Vertical Sensitivity	2 mV/div to 5 V/div
Vertical Resolution	8 bits
Maximum Input Voltage	400 V (DC+AC peak)
Scroll 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

## 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
True mixed signal oscilloscope with 16 channels of digital acquisition
Compact design with small footprint to save bench space
1 Meg of memory (512K on 2 channels)
5.7" 64K TFT Color Display with Vivid Display
Advanced trigger modes including, Edge, Video, Pulse Width, Slope, Alternate, Pattern and Duration
400 MSa/s Real-Time Sample Rate and 25 GSa/s Equivalent Time Sample Rate
Built-in USB host to support USB Flash memory, USB printers and direct system upgrades

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## Performance Characteristics

Model	DS1022C	DS1042C	DS1062C	DS1102C
Bandwidth	25MHz	40MHz	60MHz	100MHz
Memory Depth	1M points (Single Channel), 512 K points (Dual Channels)			
Channels	Dual Channels + External Trigger			
Real-time Sample Rate	400 MSa/s			
Equivalent Time Sample Rate	25 GSa/S			
Rise Time	14 ns	8.7 ns	5.8 ns	3.5 ns
Time Base Range	20 ns/div to 50 s/div	10 ns/div to 50 s/div	5 ns/div to 50 s/div	
X-Y	Bandwidth	25 MHz	40 MHz	60 MHz
Operation	Phase Difference	± 3 degrees		
Trigger Modes	Edge, Video, Pulse Width, Slope, Alternate			
Trigger Sources	CH1, CH2,Ext, Ext/5, AC Line			

## Performance Characteristics

Model	DS1022CD	DS1042CD	DS1062CD	DS1102CD
Bandwidth	25MHz	40MHz	60MHz	100MHz
Memory Depth	1M points (Single Channel), 512 K points (Dual Channels), 512 K points (Logic Analyzer)			
Channels	Dual Channels + External Trigger + Logic Analyzer			
Real-time Sample Rate	400 MSa/s, 200 MSa/s (Logic Analyzer)			
Equivalent Time Sample Rate	25 GSa/S			
Rise Time	14 ns	8.7 ns	5.8 ns	3.5 ns
Time Base Range	20 ns/div to 50 s/div	10 ns/div to 50 s/div	5 ns/div to 50 s/div	
X-Y	Bandwidth	25 MHz	40 MHz	60 MHz
Operation	Phase Difference	± 3 degrees		
Trigger Modes	Edge, Video, Pulse Width, Slope, Alternate, Pattern and Duration			
Trigger Sources	CH1, CH2,Ext, Ext/5, AC Line, D0 to D15			
Voltage Level Standards (Logic Analyzer)	TTL = 1.4V, CMOS=2.5V, ECL=-1.3V, USER=-8.0V to +8.0V			

## Advanced Features

- A true mixed signal oscilloscope with 2 analog and 16 digital channels.
- Ultra compact design, small dimensions, to save your desktop space
- 5.7" 64K TFT color LCD, bright and vivid waveform display
- Memory Depth: 1M points (Single Channel), 512K points (Dual Channels), 512K points (Logic Analyzer)
- Versatile trigger modes, Edge, Video, Pulse Width, Slope, Alternate, Pattern and Duration
- Adjustable Trigger Sensitivity: Filters noise from the trigger signal to avoid false triggers
- 400 MSa/s maximum real-time sample rate and 25 GSa/s maximum equivalent time sample rate
- 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
- Automatic self calibration
- Special digital filter and waveform recorder
- Built-in hardware frequency counter
- Dual channels plus external trigger, Bandwidths up to 25 MHz, 40 MHz, 60 MHz, 100 MHz
- Standard configuration includes pass/fail testing
- Multi-language user interface, built-in help system

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