

DS1000E Series

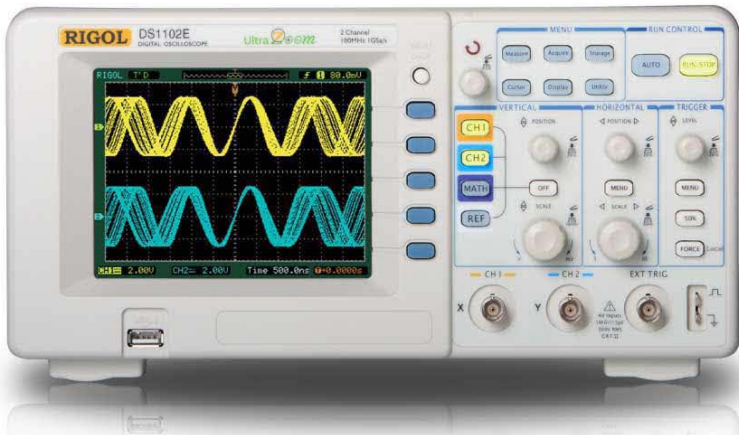
DIGITAL OSCILLOSCOPES



- 1 GSa/s maximum real-time sample rate and 1 Mpts of memory depth.
- Bandwidth options: 50MHz and 100MHz.
- Extensive set of trigger modes including: Edge, Video, Pulse Width, Slope, Alternate.
- 64 k TFT Color LCD, bright and vivid waveform display.
- Direct print to PictBridge compatible printers via USB Device interface.
- Compact design to save your desktop space.

DS1000E Series
DIGITAL OSCILLOSCOPES

DS1000E Series Digital Oscilloscope



- Application:
- Design and Debug
 - Education & Training
 - Manufacturing
 - Service & Maintenance

Product Dimensions: Width×Height×Depth=303mm × 154mm × 133mm Weight : 2.4 kg

1. 1 GSa/s maximum real-time sample rate
2. 1 Mpts of memory depth
3. Extensive set of trigger modes including: Edge, Video, Pulse Width, Slope, Alternate
4. 5.6" 64 k TFT Color LCD, bright and vivid waveform display
5. Built-in USB Host to support USB flash drive and direct system upgrade
6. Direct print to PictBridge compatible printers via USB Device interface

Model	Bandwidth	Interface
DS1102E	100MHz	USB Device, USB Host, RS-232, P/F Out (Isolated)
DS1052E	50MHz	

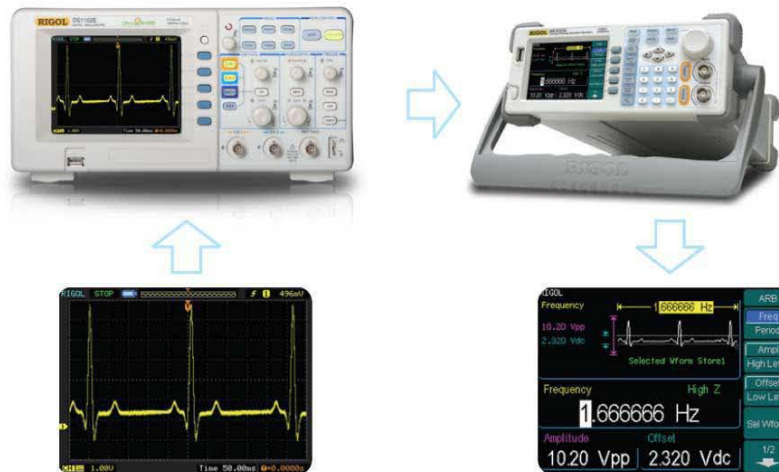
Versatile Trigger Functions

	<p>Adjustable Trigger Sensitivity</p> <p>The ability to filter noise from the signal avoids false triggers.</p>		<p>Alternate Trigger</p> <p>Provide a true dual timebase display.</p>
	<p>Slope Trigger</p> <p>Trigger on the signals rise time or fall time is user defined.</p>		<p>Rising and Falling Edge Trigger</p> <p>Mainly used to view eye-diagrams normally only available in more advanced DSO's.</p>

Signal regeneration

DS1000E series can be directly connected to the **RIGOL** DG series function/arbitrary waveform generators with built-in USB interfaces, then the **RIGOL** DG series can regenerate the waveforms saved in DS1000E's.

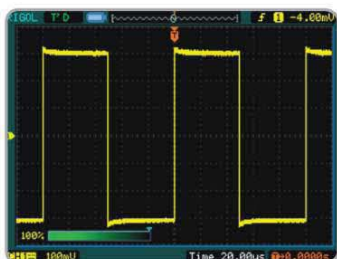
DS1000E transmits signals to DG through USB interface



The waveforms DS1000E captures

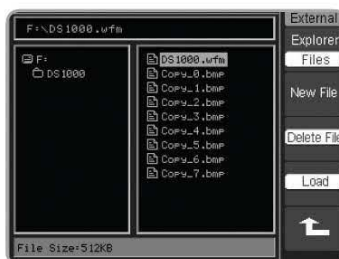
The waveforms DG regenerates

Easy to Use Features



Waveform Intensity

Adjustable waveform intensity provides a personalized waveform display.



File System

Easy-to-use file system allows for both USB flash drive and local file storage.



Built-in Help System

Press current key for 3 seconds to enter help system.

Advanced Features

- 1 GSa/s maximum real-time sample rate, 25 GSa/s maximum equivalent-time sample rate
- 1Mpts long Memory Depth
- 100 MHz, 50 MHz Bandwidths
- Ultra compact design: 303mm×154mm×133mm(W×H×D)
- 64 k TFT color LCD, bright and vivid waveform display
- Advanced trigger modes: Edge, Video, Pulse Width, Slope, Alternate
- Adjustable trigger sensitivity: Effectively filter noise from trigger signal and avoid false trigger
- 20 automatic measurements
- Cursor measurements: Manual, Track and Auto Measure modes
- 10 waveforms, 10 setups, BMP and CSV storage
- Math functions: +, -, ×, FFT, Invert
- Special digital filter and waveform recorder
- Built-in hardware frequency counter
- Standard interface: USB Device, USB Host , RS-232
- Standard configuration: Pass/Fail test, effectively avoid electromagnetic interference by using photoelectricity-isolation
- Multi-language user interface, built-in help system
- Direct print to PictBridge compatible printers via USB Device interface.

DS1000E Series Digital Oscilloscope

Specification

Model	DS1102E		DS1052E	
Bandwidth	100 MHz		50 MHz	
Channels	Dual Channels + External Trigger			
Real-time Sample Rate	1 GSa/s (Single Channel), 500 MSa/s (Dual Channels)			
Equivalent-time Sample Rate	25 GSa/s		10 GSa/s	
Rise Time	3.5 ns		7 ns	
Memory Depth	Channel Mode	Sample Rate	Normal Memory	Long Memory
	Single Channel	1 GSa/s	16 kpts	N.A.
	Single Channel	500MSa/s Or lower	16 kpts	1 Mpts
	Dual Channels	500MSa/s Or lower	8 kpts	512 kpts
Timebase Range	2 ns/div ~ 50 s/div		5 ns/div ~ 50 s/div	
Trigger Modes	Edge, Video, Pulse Width, Slope, Alternate			
Vertical Resolution	8 bits			
Vertical Sensitivity Range	2 mV/div ~ 10 V/div			
Maximum Input Voltage	400V (DC+AC Peak, 1M Ω input impedance)			
Input Coupling	DC, AC, GND			
Input Impedance	1 M Ω \pm 2 %, in parallel with 15 pF \pm 3 pF			
Probe Attenuation Factors	1X, 5X, 10X, 50X, 100X, 500X, 1000X			
Roll Range	500 ms/div ~ 50 s/div			
Cursor Measurements	Manual, Track and Auto Measure modes			
Math	+, -, \times , FFT			
Internal Storage	10 Waveforms and 10 Setups			
USB Storage	BMP, CSV, Waveforms and Setups			
Interface	USB Device, USB Host, RS-232, P/F Out			
Display	5.6" TFT (64 k, Color LCD), 320 \times 234			
Power	100 ~ 240 VAC _{RMS} , 45 ~ 440 Hz, CAT II, 50 W Max			
Weight	2.4 kg			

Standard Accessories



Power Cord



Two Probes



CD-ROM



USB Data Cable

Optional Accessories



USB-GPIB converter



RS-232 Cable



Instrument Bag

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