

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, 1MΩ input impedance)			
Input Coupling	DC, AC, GND			
Input Impedance	1 MΩ ± 2%, in parallel with 15 pF ± 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	+, -, ×, 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), 320×234			
Power	100 ~ 240 VAC _{RMS} , 45 ~ 440 Hz, CAT II, 50 W Max			
Weight	2.4 kg			



DS1000E Series

DIGITAL OSCILLOSCOPES



Standard Accessories



Power Cord



Two Probes



CD-ROM



USB Data Cable

Optional Accessories



USB-GPIB converter



RS-232 Cable



Instrument Bag

- 최대실시간 샘플링율 1Gsa/s
- 최대 메모리 길이 : 1Mpts
- 주파수대역 : 100MHz, 50MHz
- 강력한 트리거 기능 : 에지(Edge), 비디오(Video), 펄스폭(Pulse width), 슬로프(Slope), 교체(Alternate)
- Display : 64K TFT Color LCD
- USB 장치 인터페이스를 통한 프린터 호환 인쇄(PictBridge)
- 컴팩트한 소형으로 공간 활용성

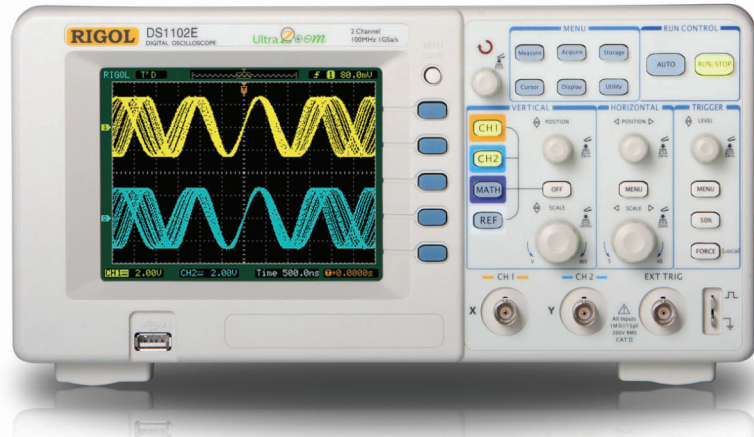


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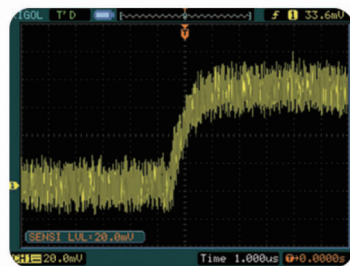
Product Dimensions: Width×Height×Depth=303mm × 154mm × 133mm Weight : 2.4 kg

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

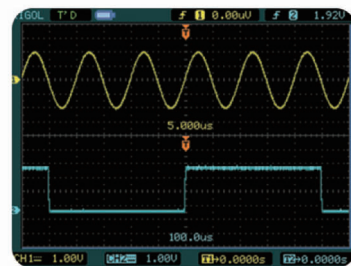
1. 1 GSa/s maximum real-time sample rate
2. 1 Mpts of memory depth
3. Extensive set of trigger modes including: Edge, Video, Pulse Width, Slope, Alternate
4. 5.6" 64 k TFT Color LCD, bright and vivid waveform display
5. Built-in USB Host to support USB flash drive and direct system upgrade
6. Direct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

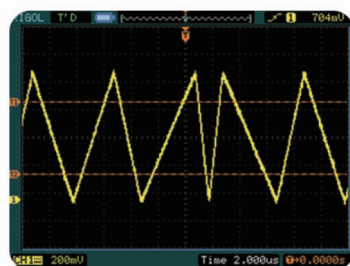
Versatile Trigger Functions



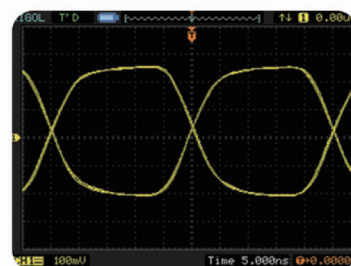
Adjustable Trigger Sensitivity
The ability to filter noise from the signal avoids false triggers.



Alternate Trigger
Provide a true dual timebase display.



Slope Trigger
Trigger on the signals rise time or fall time is user defined.



Rising and Falling Edge Trigger
Mainly used to view eye-diagrams normally only available in more advanced DSO's.

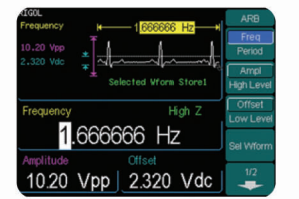
Signal regeneration

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

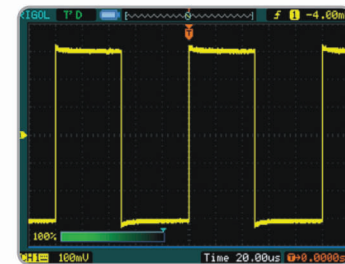


The waveforms DS1000E captures



The waveforms DG regenerates

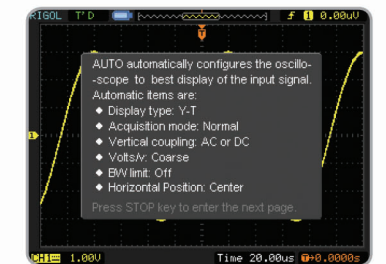
Easy to Use Features



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.