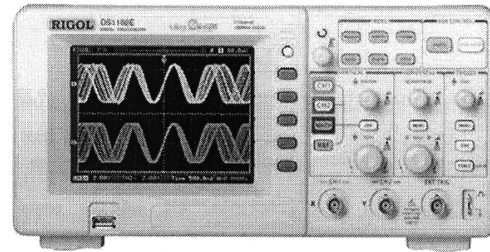


# DS1102E

## Digital Oscilloscope

### 100MHz

- 100Mhz Bandwidth
- 1GSa/s Sample Rate (500MSa/s per channel)
- 1MB memory (512K per channel)
- 5.7" TFT Display
- Triggering Functions: Edge, Slope, Pulse, Alternate, Video
- Math Functions: Addition, Subtraction, Multiply, FFT



#### Specifications:

Model	DS1102E	
Bandwidth	100 MHz	
Channels	Dual Channels + External Trigger	
Real-time Sample Rate	1 GSa/s (Single Channel), 500 MSa/s (Dual Channel)	
Equivalent-time Sample Rate	25GSa/s	
Rise Time	3.5 ns	
Memory Depth	Channel Mode	Sample Rate
	Single Channel	1GSa/s
	Single Channel	500MSa/s or lower
	Dual Channels	500MSa/s or lower
Timebase Range	2 ns/div - 50s/div	
Trigger Modes	Edge, Video, Pulse Width, Slope, Alternate	
Vertical Resolution	8bits	
Vertical Sensitivity	2 mV/div - 10V/div	
Maximum Input Voltage	All inputs 1M $\Omega$    15pF 300V RMS CAT 1	
Input Coupling	DC, AC, GND	
Roll Range	500ms/div - 50s/div	
Cursor Measurements	Manual, Track and Auto Measure Modes	
Math	+, -, x, FFT	
Internal Storage	10 waveforms and 10 setups	
USB Storage	BMP, CSV, Waveforms and Setups	
Connectivity	USB Device, USB Host, RS-232, P/F Out	
Display	5.6 TFT (64k, color LCD), 320x234 resolution	
Power Supply	AC:100 - 240 VACRMS, 45-440Hz, CAT II, 50 VA Max	

# Performance Characteristics

Model	DS1102E		DS1052E	
	DS1102D		DS1052D	
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	25GSa/s		10GSa/s	
Rise Time	3.5ns		7ns	
Memory Depth	Channel Mode	Sample Rate	Normal Memory	Long Memory
	Single Channel	1GSa/s	16 kpts	N.A.
	Single Channel	500MSa/s or lower	16 kpts	1Mpts
	Dual Channels	500MSa/s or lower	8 kpts	512 kpts
Timebase Range	2 ns/div ~50s/div		5 ns/div ~50s/div	
Trigger Modes	Edge, Video, Pulse Width, Slope, Alternate			
Vertical Resolution	8 bits			
Vertical Sensitivity	2 mV/div ~10V/div			
Maximum Input Voltage	All inputs 1M $\Omega$   15pF 300V RMS CAT I			
Input Coupling	DC,AC,GND			
Roll Range	500ms/div ~50s/div			
Cursor Measurements	Manual,Track and Auto Measure modes			
Math	+ , - , $\times$ , FFT			
Internal Strobe	10 Waveforms and 10 Setups			
USB Storage	BMP, CSV, Waveforms and Setups			
Connectivity	USB Device, USB Host, RS-232, P/F Out			
Display	5.6" TFT (64 k, Color LCD ), 320 $\times$ 234 resolution			
Power Supply	AC:100 ~ 240 VACRMS, 45 ~ 440 Hz, CAT II, 50 VA Max			