RIGOL

Specifications

SPECIFICATIONS		5202CA	5152CA/5152MA	5102CA/5102MA	5062CA/5062MA
Bandwidth		200MHz	150MHz	100MHz	60MHz
SampleRate		1GSa/s			
Equivalent Sampling		50GSa/s			
Rise Time		1.8ns	2.3ns	3.5ns	5.8ns
Input Impedance		1MΩ∥13pF,50Ω		1MΩ∥13pF	
Timebase Range		1ns/div～50s/div		2ns/div～50s/div	5ns/div～50s/div
X-Y Operation	BandWidth	200MHz	150MHz	100MHz	60MHz
	Phase Difference	±3 degrees			
Display		VGA Color LCD 320×240	VGA Color LCD/Mono LCD 320×240		

SPECIFICATIONS		5152C/5152M	5102C/5102M	5062C/5062M	5042M	5022M
Bandwidth		150MHz	100MHz	60MHz	40MHz	25MHz
SampleRate		250MSa/s				
Equivalent Sampling		50GSa/s				
Rise Time		2.3ns	3.5ns	5.8ns	8.8ns	14ns
Input Impedance		1MΩ∥13pF,50Ω	1MΩ∥13pF			
Timebase Range		1ns/div～50s/div	2ns/div～50s/div	5ns/div～50s/div	10ns/div～50s/div	20ns/div～50s/div
X-Y Operation	BandWidth	150MHz	100MHz	60MHz	40MHz	25MHz
	Phase Difference	±3 degrees				
Display		VGA Color LCD/Mono LCD 320×240			Mono LCD,320×240	

MUTUAL PARAMETER		
Number of Channels		2CH+Ext.Trig
Memory		4K per channel
Vertical Sensitivity		2mV/div～5V/div
Vertical Resolution		8 bits
Input Coupling Ch1＆2		DC,AC or GND
Trigger Sources		CH1,2,ext,ext/5,AC line
Trigger Mode		Auto,Normal,Single
Trigger Type		Edge,TV,Pulse,Delayed
Trigger Coupling		DC,AC,LF Rej.,HF Rej.
Horizontal Accuracy		±0.01%
Maximum input Voltage		400V(DC+AC peak),5Vrms@50Ω
Math		+, -, x, ÷, FFT
FFT	Window	Hanning, Hamming, Blackman, Rectangular
	Sample	1024 points
Auto Measurement		Vp-p, Vrms, Vamp, Vmax, Vmin, Vtop, Vbase, Vavg, Overshoot, Preshoot, Freq, Period, +PulseWidth, -PulseWidth, Risetime, Falltime, +Duty, -Duty,Delay1-2ƒ,Delay1-2↺
CursorMeasure		Manual,Trace,AutoMeasure
Storage		10Waveforms,10setups
Power		Worldwide Use,100～240V/50VA Max
Net Weight		4.5Kg
Size (excl. Handle)		303mmx145mmx288mm
Accessories		Probex2(1x＆10x), Power Cable, User manual
Options		Extension Module (EM5-CM, EM5-COM, EM5-P/F) , Tools Bag,USB Cable

RIGOL ELECTRONIC CO. ,LTD.

DS5000 Series
Digital Storage Oscilloscope

NEW!

New standard for Performance Price
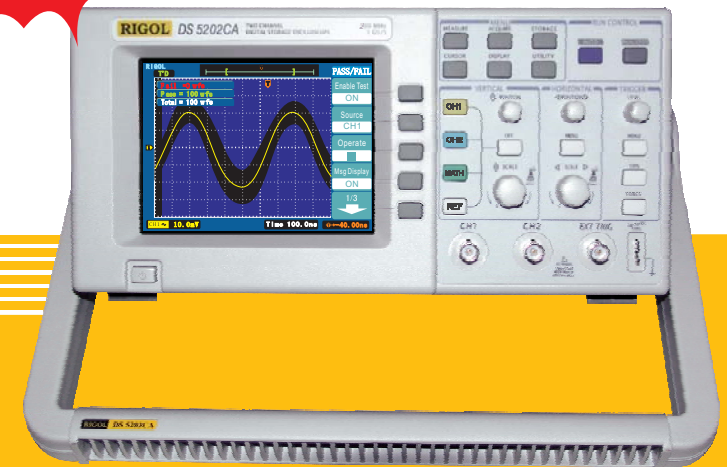
■ Ds5000 Series

	200MHz	150MHz	100MHz	60MHz		150MHz	100MHz	60MHz	40MHz	25MHz
1GSa/s	DS5202CA	DS5152CA	DS5102CA	DS5062CA		DS5152MA	DS5102MA	DS5062MA	–	–
250MSa/s	–	DS5152C	DS5102C	DS5062C		DS5152M	DS5102M	DS5062M	DS5042M	DS5022M
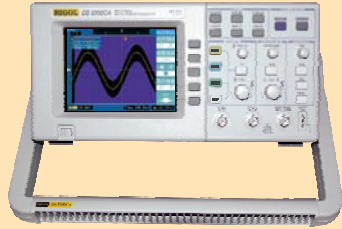
Color
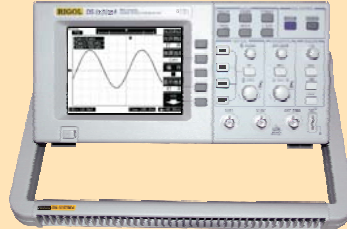
Monochrom

● Remarkable digital performance

Features

- Easy-to-read LCD display
- Dual channel，Bandwidth: 25MHz~200MHz per channel
- Sample Rate (Real-time): up to 1GSa/s
- Equivalent Sampling: up to 50GSa/s
- Advanced Triggering on edge, video, pulse, delay
- 20 Automatic Measurements, Manual Cursor Measurement
- 10 waveforms, 10setups storage
- ＋,－,×,÷,Mathematic Functions
- Edge, video, pulsewidth, delay triggering

- Built in FFT&USB interface
- Automatic Calibration
- Exclusive Digital Filter & waveform recorder
- Hardware frequency counter
- Capture rate over 1k waveforms/s
- 10 Languages user interface
- Built in help
- Optional Extend Module: Pass/Fail output;
  RS-232/GPIB Interface

● Extension Module

EM5-CM
GPIB&RS-232 Communication
Pass/Fail

EM5-COM
GPIB&RS-232 Communication

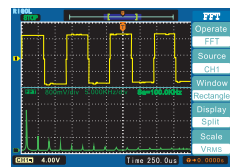**EM5-P/F**
Pass/Fail

BUILT-IN DIGITAL FILTER

DS5000 Series have 4 kinds of special digital filter function (Low pass, High pass, Band pass, Band reject). It is very convenient for users to analyze and measure complicated signals.
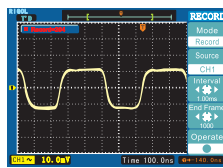
20 AUTO-MEASUREMENTS
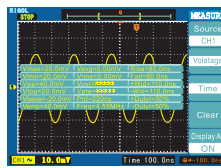
DS5000 series features 20 auto-measurement includes 10 voltage measurements: Vp-p, Vamp, Vtop, Vbase, Vmax, Vmin, Vavg, Vrms, Overshoot, and Preshoot. 10 time measurements: Freq, +PulseWidth, -PulseWidth, Period, RiseTime, FallTime, +Duty, -Duty, Delay1-2 ƒ,and Delay1-2 ꓱ.

The Ultrascope software provides the following control and analysis features:
- Use Data Browser to display captured waveforms, data and measurements.
- Use DSO Controller to control the oscilloscope locally or over the network.
- Export the waveform in "BMP" format.
- Save the data into "TXT" or "Excel" file for analysis.
- Print waveforms.

PC control and analysis software (Ultrascope)
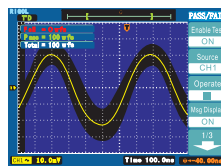

MULTI-MATH FUNCTION

The DS5000 provides +, -, ×, ÷ and FFT math functions. Users can do different measurement; power measurement, ratio measurement according the math function above. And found out distortion content in the waveform.

WAVEFORM REC, REPEAT, STORAGE

The waveform recorder is one of the specially enhanced features in DS5000. The record time interval can be adjusted from 1 ms to 1000 s. Record length can vary from 1 to 1000 frames.
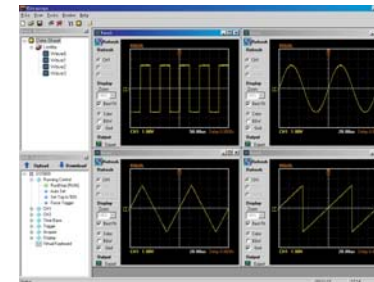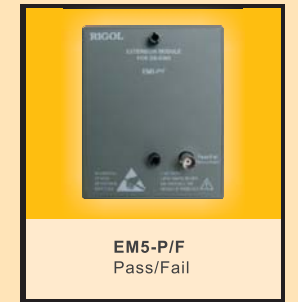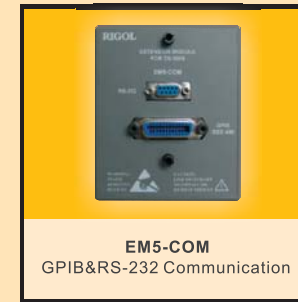
PASS/FAIL FUNCTION

The pass/fail function operates based on a user-defined rule, to find out any abnormal signal, or to trigger the waveform recorder and capture random events.

● Accessories

Two 1.5 meter, 1:1&10:1 probes	Power Cable	User Manual	Tools Bag