

# RIGOL™

## DS1000 SERIES DIGITAL OSCILLOSCOPES



### Features:

- Compact Design with Large 5.7"QVGA TFT Display
- 2+16 Channels Logic Analyzer
- 100/60/40MHz Bandwidth
- 400MSa/s Real Time & 25GSa/s Equivalent Sample Rate
- Up to 1Mpts Memory Depth
- Triggers: Edge, Video, Pulse, Slope, Alternate, Pattern and Duration
- Adjustable Trigger Sensitivity
- +, -, x, ÷ and FFT
- Standard RS-232, USB Host and USB Device Interface

## Product Comparison

Products	DS1000CD series			DS1000C series		
Models	DS1102CD	DS1062CD	DS1042CD	DS1102C	DS1062C	DS1042C
Bandwidth	100MHz	60MHz	40MHz	100MHz	60MHz	40MHz
Sample Rate	400M/25GSa/s	400M/25GSa/s	400M/25GSa/s	400M/25GSa/s	400M/25GSa/s	400M/25GSa/s
Channels*	2+16+1	2+16+1	2+16+1	2+1	2+1	2+1
Memory	1Mpts	1Mpts	1Mpts	1Mpts	1Mpts	1Mpts
Display	5.7" QVGA	5.7" QVGA	5.7" QVGA	5.7" QVGA	5.7" QVGA	5.7" QVGA

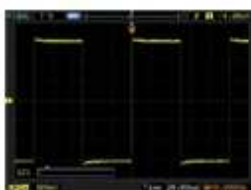
\* One Ext. Trigger Channel

## Specifications

Product	DS1102CD	DS1062CD	DS1042CD
Channel	2CH + Ext Trigger + 16 Logic Analyzer		
Bandwidth	100MHz	60MHz	40MHz
Memory Depth	1Mpts on one channel, 512Kpts/channel, 56Kpts (Logic Analyzer)		
Product	DS1102C	DS1062C	DS1042C
Channel	2CH + Ext Trigger		
Bandwidth			
Memory Depth	1Mpts on one channel, 512Kpts/Channel		
Real Time Sample rate	400MSa/s Scope, 200MSa/s (Logic Analyzer)		

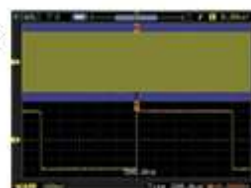
Equivalent Sample Rate	25GSa/s		
Rise Time	3.5ns	5.8ns	8.7ns
Time Base	5ns-50s		10ns-50s
Max Input Voltage	DSO:400V (DC + AC peak) Logic Analyzer: 40V (DC + AC peak)		
Thresholds	TTL = 1.4V, CMOS = 2.5V, ECL = -1.3V, USER = -8.0V +8.0V		
Trigger Modes	Edge, Pulse, Slope, Video, Alternate, Pattern and Duration		
Trigger Sources	CH1, CH2, Ext, Ext5/5, AC Line		
Input Impedance	1Mohm, approx, 13pF		
Vertical Sensitivity	2mV/div-5V/div		
Vertical Resolution	8 bits		
Input Coupling	DC, AC or GND		
Roll Range	500ms/div-50s/div		
Automatic Measurement	Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vrms, Vavg, Vover, Vpre, Freq, Period, Rise, Fall, +Width, -Width, +Duty, -Duty, DelayA, DelayB		
Cursor Measurement	Manual, Trace, Auto measure		
Math	+, -, x, ÷, FFT		
Storage	Internal: 10 waveforms and setups		
	USB: BMP, CSV, Waveforms, Setups		
Interface	USB device, USB host, RS232, Pass/Fail Output (Isolated)		
Display	5.7" TFT (QVGA, Color LCD), 320 x 234		
Power	Worldwide, 100-240V/50W max		
Weight	2.3kg		
Dimension	W x H x D: 303 x 154 x 133mm or 12" x 6.1" x 5.2"		
Accessories	Probe X 2 (1x, 10x switchable), Power cord, User's manual		

## Intuitive User Interface



### Waveform Intensity

Display Intensity is adjustable for more effective viewing



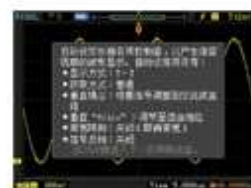
### UltraZoom<sup>®</sup>

Up to 1M responsive memory captures signals with finer resolution and gives long time spans and high sample rate for mixed signal analysis



### Intuitive UI

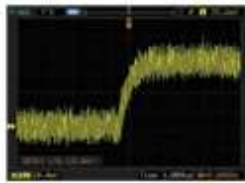
Easy to use User-Interface and file system supports multilanguages



### Build-in Help

Real time Build-in help system assists you get the most of your instrument

# Versatile Triggers



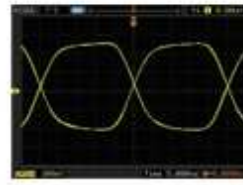
Adjustable Trigger Sensitivity



Alternate Trigger



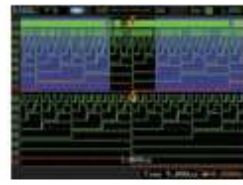
Slope Trigger



Rising/Falling-Edge Trigger



Pattern Trigger



Duration Trigger



- ① Optically Isolated Pass/Fail Output
- ② RS-232 Interface
- ③ USB Interface

**Build-in Digital Filters**  
Low Pass, High Pass, Band-Pass  
Band-Reject

**Waveform Recorder**  
Records and Replays up to 1000 frames  
of waveforms

**Roll Mode**  
Ability to Acquire and Observe  
Low Frequency Signal

**Sample Rate**  
Real Time: 400MS a/s  
Equivalent: 25GS a/s

**Screen Saver**  
Saves Energy and Extends LCD Life Span

**Trigger Hold-Off**  
Pass/Fail

## Accessories



Logic Test Clips



Logic Test Cable



Logic Test Module



UltraScope  
PC Control S/W



DSO Probe x2



Power Cord



User's Manual

Distribué par: LGDA-TECHNOLOGIES  
BP266  
13797 AIX EN PROVENCE CEDEX 03  
Tél : (33)4 42 38 72 57  
Site internet : [lgda-technologies.com](http://lgda-technologies.com)