



FEATURES

Easy-to-read LCD Display Dual channel, bandwidth: 5MHz to 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 Edge, video, pulsewidth, delay triggering Built in FFT & USB interface Exclusive Digital Filter & waveforms recorder

10 Languages user interface

Optional Extend Module: Pass/Fail output; RS-232/GPIB Interface

CURSOR

Type: Voltage, Time

HORIZONTAL CONTROL

Ultra-zoom, YT/XY: time domain waveform and lissaious graph. Memory/Trigger position.

STORAGE/RECALL

Waveform storage: store and display 10 waveforms (each includes Ch1 & Ch2). Setup storage: store and recall 10 instruments working config.

CH1/CH2 CHANNELS

Coupling: AC/ DC/ GND Probe attenuation: 1:1/ 10:1/ 100:1/ 1000:1

HIDDEN MENU

The Screen Menu can be hidden to gain a wider viewing area.

AUTO-SETUP

It makes horizontal, vertical and trigger system of channels to the best display effect with only one push on the display.

DISPLAY SYSTEM

Color-LCD (DS5000CA/C series), adjustable contrast, 320x240 resolution, VGA color. Mono-LCD (DS5000MA/M series), adjustable contrast, 320x240 resolution, B/W.

AUTOMEASUREMENT

 $V_{pp'}V_{max'}V_{min'}T_{top'}V_{base'}V_{amp'}V_{avg'}V_{rms'}Overshoot, Preshoot, Frequency, Period, Rise Time, Fall Time, Delay1-2, +Width,\\$ -Width, +Duty, -Duty.

UTILITY

Pass/Fail detection, Waveform recorder, Frequency Counter, Beeper Sound, Self-test, Self-calibration, I/O Setup, Multi-Language.

TRIGGER SYSTEM

Trigger mode: Edge, Video, Pulse, delayed. Trigger method: Auto, Normal, Single. Trigger source: CH1, CH2, EXT, EXT/5, AC line. Trigger Coupling: DC, AC, HF, Rej., LF Rej.

SAMPLING SYSTEM

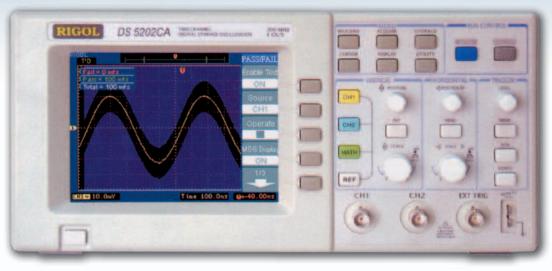
Real-Time: sampling rate up to 1GSa/s. Equivalent-Time:sampling rate up to 50GSa/s. Average: The averaged waveforms is a running average over a specified number of aquisitions. Reduced random or uncorrelated noise in signal display.

MATHEMATIC FUNCTION

Add, Subtract, Multiply, divided, and build in Fast Fourier Transform (FFT). Digital Filter: HPF, LPF, BPF, BRF. bandwidth Limit: limits channel bandwidth to 20MHz.

DISPLAY METHOD

Dots display, Vectors display, Infinite display.

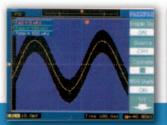


SIMPLE FRONT PANEL

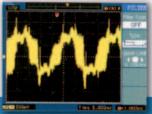
The DS5000 series digital storage oscilloscope has a simple but distinct panel front for all basic operations. Operations are easy and intuitionistic. Instrument adjustment is as simple as pressing a button.

REMARKABLE DIGITAL PERFOMANCE

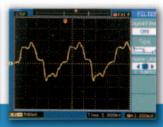
The New DS5000 series digital storage oscilloscope is not only easy to use but also remarkable in perfomance and low price. It has up to 200MHz bandwidth, 1GSa/s real-time sampling and 50GSa/s Eqivalent-time sampling. The instrument is helpful to view faster, more complex signals. The powerful-trigger and analysis functions make the waveform catching analysis easy.



Pass/Fail rules can be edited and saved, hardware output available in optional module.



Digital Filter (OFF)



Digital Filter (ON)

SKY MESSTECHNIK



The DS5000 Series DSO's are easy to use with familiar controls and high display update rate. A colour LCD or a mono LCD is used for bright and clear display. Storage is as simple as pressing a button. Pre Trigger allows the viewing of events before the trigger event. Cursors and automatic measurements greatly simplify the analysis of these events. FFT Math function is built-in the DSO. Upgrading the DSO with an interface module make possible the communication with a PC.

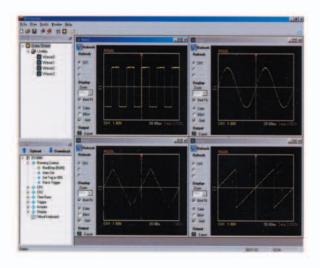
A RIGOL DSO perfectly suits your demanding test applications by delivering fast setup and data transfer speed, flexible resolution, high sampling rate, deep memory, long acquisition records, advanced trigger types and reduced size.

MODELS AND OPTIONS:						
VGA (Colour) Display:				LCD (Mono) Display:		
5062C	60MHz	250 MSa/s		5022M	25MHz	250 MSa/s
5062CA	60MHz	1 GSa/s		5042M	40MHz	250 MSa/s
5102C	100MHz	25 MSa/s		5062M	60MHz	250 MSa/s
5102CA	100MHz	1 GSa/s		5062MA	60MHz	1 GSa/s
5152C	150MHz	250 MSa/s		5102M	100MHz	250 MSa/s
5152CA	150MHz	1 GSa/s		5102MA	100MHz	1 GSa/s
5202CA	200MHz	1 GSa/s		5152M	150MHz	250 MSa/s
				5152MA	150MHz	1 GSa/s
		S232/GPIB /Softw RS232/GPIB /Soft				

ULTRASCOPE - PC CONTROL AND ANALYSIS SOFTWARE

The Ultrascope software provides the following control and analysis features:

- Use Data Bowser to display captured waveforms, data and measurements.
- Use DSO Controller to control the Oscilloscope locally or over
- Export the waveform in "BMP" format.
- Save the data into "TXT" or "Excel" file for analysis.
- Print waveforms.



EXTENSION MODULE

FM5-CM Pass/Fail



EM5-COM GPIB & RS-232 Communication



SPECIFICATIONS

All specifications are guaranteed unless noted "typical".

VERTICAL DEFLECTION

Number of Channels: Bandwith:

depends on model Mono 2x 25-150MHz Colour 2x 25-200MHz

2 Channels

2mV/Div.- 5V/Div Deflection coefficient: Input impedance: 1MOhm II 13pF DC, AC, GD (ground) Input coupling: Input voltage: max.400V (DC+AC peak)

TRIGGERING

CH I or II Sources: Trigger Mode: Auto, Normal, Single Edge, TV, Pulse, Delay Trigger Type:

HORIZONTAL DEFLECTION

Time Base: depends on model 50s/Div. - 5 to 1ns/Div.

Bandwith X-Amplifier:

0-200 MHz depends on model

Vertical resolution: 8 bit X-Y Phase shift: 3° Degrees XY Mode: over Channel 1 and 2

STORAGE MODE

depends on model Sample Rate: 250MSa/s or 1GSa/s **Equivalent Sampling:** 50GSa/s Memory: 4k - 1M per channel Rise Time: depends on model 5.8 - 1,8ns

MEASUREMENT

Auto Measure: Vpp, Vmax, Vmin, Vavg,

Vamp, Vtop, Vbase, Vrms, Overshoot, Frequency, Period, Risetime, PulseWidth, Duty, Delay

Cursor Measure: Manual, Trace, Auto Measure

Math: Add, subtract, multiply, divide, FFT

Storage: 10 waveforms, 10 setups

GENERAL INFORMATION

VGA or LCD 320x240 Display: Line voltage: 100~240V/ 50/60Hz max.50VA Power consumption: Weiaht: 4,5 kg 303 x 145 x 288 mm Size:

Subject to change without notice.04/05 detailed information see www.sky-messtechnik.de

ACCESSORIES

Two 1.5 meter, 1:1 and 10:1 probes, Tools Bag

