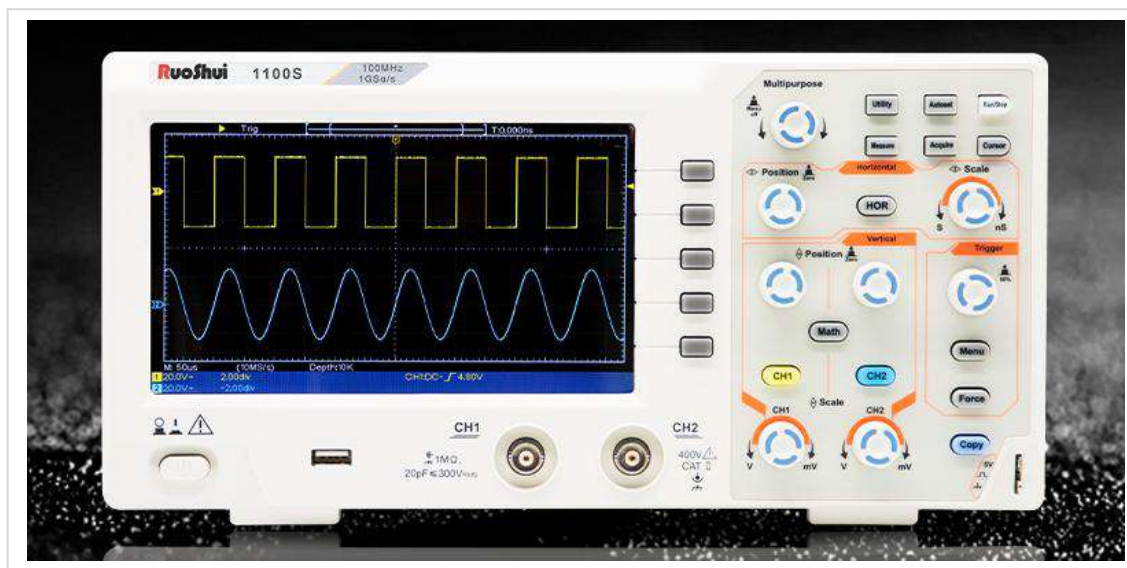


Two Channels Benchtop Digital Storage Automatic Oscilloscope

Model: 1050S 1100S



Specifications

Model	1050S	1100S
Bandwidth	50MHz	100MHz
Channel	2	2
Acquisition		
Mode	Normal, Peak detect, Averaging	
Sampling Rate (real time)	500 MS/s	1 GS/s
Input		
Input coupling	DC, AC, Ground	
Input impedance	1 MΩ±2%, in parallel with 20 pF±5 pF	
Input coupling	1X,10X,100X,1000X	
Max. input voltage	400V (DC+AC, PK - PK)	
Channel –channel isolation	50Hz: 100: 1 / 10MHz: 40: 1	
Time delay between channel(typical)	150ps	
Bandwidth limit	Not support	20 MHz, full bandwidth
Horizontal System		
Sampling rate range	0.5 S/s ~ 500 MS/s	0.5 S/s ~ 1 GS/s
Interpolation	(Sinx)/x	
Max record length	10K	
Scanning speed (S/div)	2 ns/div – 1000 s/div, step by 1 – 2 – 5	
Sampling rate / relay time accuracy	±100 ppm	
Interval(ΔT) accuracy (DC -100MHz)	Single: ± (1 interval time+100 ppm×reading+0.6 ns); Average>16: ± (1 interval time +100 ppm×reading+0.4 ns)	

Vertical system

Vertical Resolution (A/D)	8 bits (2 channels simultaneously)	
Sensitivity	5 mV/div ~ 5 V/div	
Displacement	± 2 V (5 mV/div – 100 mV/div)	
	± 50 V (200 mV/div – 5 V/div)	
Analog bandwidth	50MHz	100MHz
Single bandwidth	Full bandwidth	
Low Frequency	≥ 10 Hz (at input, AC coupling, -3 dB)	
Rise time (at input, Typical)	≤ 7.0 ns	≤ 3.5 ns
DC gain accuracy	$\pm 3\%$	
DC accuracy (average)	Delta Volts between any two averages of ≥ 16 waveforms acquired with the same scope setup and ambient conditions (ΔV): $\pm (3\% \text{ reading} + 0.05 \text{ div})$	
Waveform inverted ON/OFF		

Measurement

Cursor	ΔV , ΔT , $\Delta T \& \Delta V$ between cursors, auto cursor	
Automatic	Period, Frequency, Mean, PK-PK, RMS, Max, Min, Top, Base, Amplitude, Overshoot, Preshoot, Rise Time, Fall Time, +Pulse Width, -Pulse Width, +Duty Cycle, -Duty Cycle, Delay A→B, Delay A→B, Cycle RMS, Cursor RMS, Screen Duty, Phase, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count, Area, and Cycle Area.	
Waveform Math	+, -, *, /, FFT	
Waveform storage	16 waveforms	
Lissajous figure	Bandwidth: Full bandwidth / Phase difference: ± 3 degrees	

Trigger

Trigger level range	Internal: ± 5 div from the screen center	
Trigger level accuracy (typical)	Internal: ± 0.3 div	
Trigger displacement	According to Record length and time base	
Trigger holdoff range	100 ns – 10 s	
50% level setting (typical)	Input signal frequency ≥ 50 Hz	
Edge trigger	slope: Rising, Falling	
Video Trigger	<u>Modulation</u> : Support standard NTSC, PAL and SECAM broadcast systems	
	<u>Line number range</u> : 1-525 (NTSC) and 1-625 (PAL/SECAM)	
Communication	USB 2.0 (USB storage)	
Counter	Support	
Display	7" Colored TFT screen, 800x480 pixels	

General Information

Model	1050S	1100S
Power supply	100 - 240 VACRMS, 50/60 Hz, CAT II	
Product Dimension	301mm× 152mm×70mm	
Product weight	1.1 kg	
Product color	White + orange	
Standard accessories	Power Cord, Software CD, User Manual, USB cable, Probe, probe adjust. Pouch (Optional)	