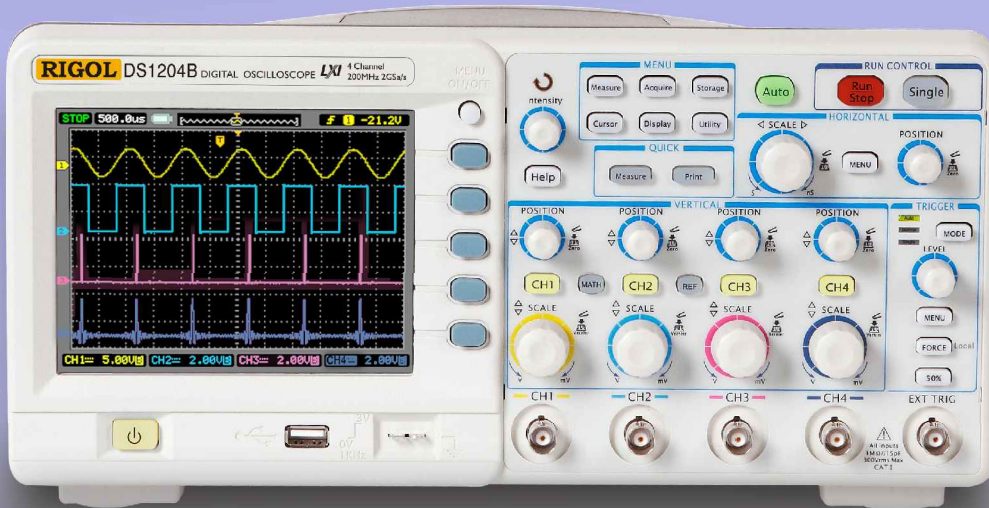


Digital Oscilloscopes



DS1064B : 60 MHz
 DS1104B : 100 MHz
 DS1204B : 200 MHz



Cursor Measurement



Signal display with Digital filter OFF



Signal display with Digital filter ON

- Sampling Rate , Real Time : 2GSa/s
- Equivalent Sampling up to 50 GS/s
- Four Channel 60 MHz, 100 MHz & 200 MHz
- Roll mode , acquire and display slow moving signals
- Waveform Recorder
- Built-in FFT
- 10 waveform and 10 setup storage
- Automatic measurements and Manual cursor measurements
- Exclusive digital filters to capture noisy signals
- Direct screen printing
- Easy to use file system support | *.bmp , *.csv etc.
- Standard USB device, USB Host & LAN interface
- Support USB flash memory for mass storage
- Standard software included

Technical Specifications

Specifications	DS1064B	DS1104B	DS1204B
Bandwidth	60 MHz	100 MHz	200 MHz
Bandwidth Limit	Limit 20 MHz		
Memory Depth	16 k points (half channel) , 8 k points (each channel) (Half Channel : one of the CH 1 and CH 2 or CH 3 and CH 4		
Sample Rate	2 GSa/s for half channel, 1GSa/s for each channel		
Equivalent Sampling	10 GSa/s	25 GSa/s	50 GSa/s
Number of Channels	4 channels		
Acquisition Modes	Refresh , Single, Roll, Average , Peak Detect, XY, Waveform Recorder		
Vertical Resolution	8 bits		
Vertical Sensitivity	2mV/div to 10 V/div		
Accuracy	2mV/div to 5mV/div : $\pm 4\%$, 10mV/div to 10V/div : $\pm 3\%$		
Offset Range	$\pm 40V$ (500mV ~ 10V), $\pm 800mV$ (1mV ~ 200mV)		
Rise Time	5.8 ns	3.5 ns	1.8 ns
Input Impedance	1M Ω 18 pF		
Input Coupling	DC, AC , GND		
Max Input Voltage	300 V (DC + AC peak)		
Time Base	5 ns to 50 s/div in 1-2-5 seq.	2 ns to 50 s/div in 1-2-5 seq.	1 ns to 50 s/div in 1-2-5 seq.
Modes	Main, Delayed , Roll and X-Y		
TB Accuracy	± 50 ppm		
Autoset	Sets vertical sensitivity , time base , trigger for optimum display of signal applied at the input		
Trigger Sources	CH 1 , CH 2 , CH 3 , CH 4 , EXT, EXT/5, AC-Line, Alternating		
Trigger Sensitivity	0.1 div ~ 1.0 div (adjustable)		
Trigger Hold Off	100ns - 1.5 s		
Edge Trigger	Edge trigger slope : Rising , Falling , Rising + Falling		
Trigger Coupling	AC, DC, LF-Rej, HF- Rej		
Pulse Trigger	Trigger condition (>, <, =) Positive Pulse, (>, <, =) negative pulse , Pulse width : 20ns ~10s		
Video Trigger	NTSC, PAL, SECAM		
Alternate Trigger	Trigger on CH 1, CH2, CH3, CH4 , Edge, Pulse , Video		
Trigger External	100 mV DC - 10 MHz , 200 mV 10 MHz - full bandwidth		
Auto Measure	Vpp, Vamp, Vmax, Vmin, Vtop, Vbase, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time + Width, -Width, +Duty, -Duty, Delay A \rightarrow B \overline{f} , Delay A \rightarrow B $\overline{\overline{f}}$, Phase A \rightarrow B \overline{f} , Phase A \rightarrow B $\overline{\overline{f}}$		
Cursor Measurements	Manual , Automatic and Track		
Math Functions	Add, Subtract, Multiply, FFT		
Storage	10 Setups and 10 Waveforms saved and recalled internally		
Average	selectable (2, 4, 8,16, 32, 64, 128 & 256)		
Waveform Recorder	Record and Play back , up to 1000 frames, Interval : 1ms to 1000 s		
X-Y Mode	X : Channel 1 , Y : Channel 2		
X-Y Bandwidth	60 MHz	100 MHz	100 MHz
Phase Difference	$\pm 3^\circ$		
Cal Output	3Vpp , 1 kHz approx.		
Interface	USB host , USB device and LAN		
Display	5.7 in STN LCD , 64 k Color		
Resolution	320 x 240 pixels		
Waveform Interpolation	Sinx/x		
Power	100V - 240V , AC : 45 Hz to 440 Hz , 50VA , CAT II		
Operating Conditions	0 $^\circ$ C to 40 $^\circ$ C, RH 95%		
Dimension & Weight	W : 325 , D : 133 , H : 159 mm , 3 kgs		
Standard Accessories	Mains chord , User Manual , Probe : 2 nos. , USB Cable , Standard software CD		
Optional Accessories	50 Ω Termination , BNC - BNC , BNC - Crocodile , Rack Mount Kit , Differential Probes		

DS1000B DSOs Ver.1.02

(subject to change)

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