

**RIGOL**  
Beyond Measure

**DS1000B Series**  
Digital Oscilloscopes



## The Highest Performance 4 channel Scopes under \$2000 USD!

### Highest Performance in its class:

The DS 1000B Series Oscilloscopes with 4 channels, up to 2 GSa/s Sample Rate, Bandwidth options from 60 to 200 MHz with 16K points of memory are clearly the best performance products in this category.

### New Front End Technology

The DS 1000B incorporates our Proprietary ASIC front end which replaces all traditional mechanical relays to provide superior performance with longer life.

### LXI Certified

The DS 1000B series is the 1st scope in its class to be certified by the LXI consortium, providing you the flexibility of programming over the web and the confidence that our product conforms to this rigid industry specification.

### Great Display

The DS 1000B uses a 5.7" QVGA (320x240) 64K TFT color display. This display provides a brighter, more vivid display while consuming less power and has a longer life span than conventional LCD displays.

### Ultrascope Software

Now in its 3rd version since 1st introduced, Ultrascope allows for easy capture of waveforms, setups and remote control of the Scope.

### Powerful functions not found in other products

We continue to add powerful capabilities based on our customers needs. In addition to features like Digital Filtering, pass/fail testing, record and playback, the DS 1000B now provides Logic Triggering across the 4 channels and Alternate triggering providing a true dual time-base scope.

### I/O Enhancements

The DS 1000B provides the most complete set of I/O in its class. These include LAN, USB and USB host (x 2) to support flash memory.



## Comparison Table

	RIGOL DS 1000B	TEK TDS 2000B	INSTEK GDS 2000
Bandwidth	Up to 200 MHz	Up to 200 MHz	Up to 200 MHz
Max Sample Rate	2 GSa/s	2 GSa/s (TDS2024B only)	1 GSa/s
Equivalent Sample rate	Up to 50 GSa/s	N.A.	25 Gsa/s
Max Memory Depth	16 k	2.5 k	25 K
Trigger Modes	Edge, Pulse width, Video, Pattern, Alternate	Edge, Pulse width, Video	Edge, Pulse width, Video
LXI Compatibility	YES	NO	NO
Display	TFT LCD, LED backlight	Passive LCD	TFT LCD
Standard Interfaces	USB Device, USB Host x2 and LAN	USB Device, USB Host	USB Device, USB Host, RS-232
Automatic Measurements	22 (display 18)	11 (display 5)	27 (display 5)
Screen Display	12 div	10 div	12 div
Internal Storage	10 waveforms/10 setups	4 waveforms/10 setups	20 waveforms/20 setups
Pass/Fail Detection	YES	NO	YES
Waveform Record	YES	NO	NO
Adjustable Trigger Sensivity	YES	NO	NO

## Models

	DS1064B	DS1104B	DS1204B
Channels	4	4	4
Bandwidth	60 MHz	100 MHz	200 MHz
Real time sample rate	2 GSa/s (half channel), 1 GSa/s (each channel)		
Equivalent time sample rate	10 GSa/s	25 GSa/s	50 GSa/s
Memory Depth	16 k (half channel), 8 k (each channel)		
Display	5.7" QVGA (320 x 240), 65,000 colors, TFT LCD, LED backlight		
Trigger Modes	Edge, Pulse Width, Video, Pattern, Alternate		
Standard interfaces	USB Host x2, USB Device, LAN		
Math and Analyse	Add, Subtract, Multiply, FFT (1024 sample points), Ultrascope software		

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