

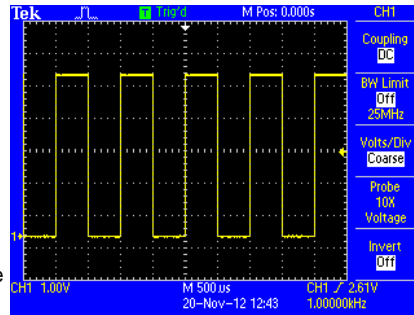
TBS1000 Series vs. Rigol DS1000E Series

Competitive Fact Sheet

Ease of Use

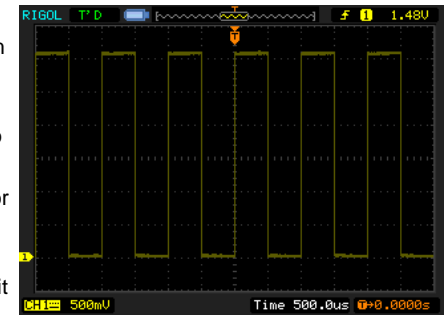
Tektronix TBS1000 Series

- ✓ “Save” button for quick waveform saving with menu information
- ✓ “Single” button for single trigger operation
- ✓ No menu has more than 2 pages
- ✓ Indexed, context sensitive help system with hyperlinks works like a built-in manual.
- ✓ Probe Check button to quickly verify that the voltage probe is operating properly
- ✓ Trig View button to see how the trigger settings affect the trigger signal
- ✓ AutoRange button adjusts controls to produce a usable display of the input signal.



Rigol DS1000E Series

- ✗ No dedicated button for quick waveform saving. Can't save menu information.
- ✗ No dedicated button for single trigger operation. Need go to 2nd level menu to enable.
- ✗ Menus can have up to three pages. For example, the utility menu includes 16 different settings.
- ✗ No help index and no hyperlinks make it difficult to jump between topics
- ✗ No probe check function
- ✗ No trig view function
- ✗ No AutoRange function



Portability and Work Environment

Tektronix TBS1000 Series

- ✓ 300V_{RMS} CAT II
- ✓ 2.0 kg weight
- ✓ Silent operation
- ✓ Operating from 0 C to +50 C
- ✓ 30 W max power consumption

Rigol DS1000E Series

- ✗ 300V_{RMS} CAT I
- ✗ 100V_{RMS} CAT II
- ✗ 2.3 kg weight
- ✗ Contains a cooling fan
- ✗ Operating from 10 C to +40 C
- ✗ 50 W max power consumption



Key Specifications Comparison

	Tektronix TBS1000 Series		Rigol DS1000E Series	
Channels	✓	2	✓	2
Bandwidth	✓	25, 40, 60, 100, 150 MHz	✗	50, 100 MHz
Max. Sample Rate (All channels on)	✓	BW ≤ 40MHz: 500 MS/s BW > 40MHz: 1 GS/s	✗	500 MS/s
Max. Record Length (All channels on)	✗	2.5k points	✓	8k points
Persist Time	✓	OFF, 1sec, 2sec, 5 sec, infinite	✗	OFF, Infinite
Data Logging	✓	Yes	✗	N/A
Included software	✓	OpenChoice	✓	UltraScope
Interfaces	✓	USB, Optional GPIB	✓	USB, RS232

TBS1000 Series vs. Rigol DS1000E Series

Competitive Fact Sheet

Higher Sample rate/Bandwidth ratio

The TBS1000 series offers higher sample rate/bandwidth ratio to reconstruct waveforms more accurately and reduce the possibility of aliasing

Tektronix TBS1000	Bandwidth	Sample rate(all CHs on)	Sample rate/Bandwidth	Rigol DS1000E	Bandwidth	Sample rate(all CHs on)	Sample rate/Bandwidth
TBS1022	25MHz	500MS/s	20 times				
TBS1042	40MHz	500MS/s	12.5 times				
TBS1062	60MHz	1GS/s	16.7 times	DSO1052E	50MHz	500MS/s	10 times
TBS1102	100MHz	1GS/s	10 times	DSO1102E	100MHz	500MS/s	5 times
TBS1152	150MHz	1GS/s	6.7 times				

Warranty Duration

Tektronix
TBS1000 Series

✓ 5 year warranty

Rigol
DS1000E Series

✗ 3 year warranty



Advanced Features for Embedded Design

Tektronix TDS2000C Series

- ✓ Higher bandwidth models up to 200MHz
- ✓ 4 channel model available on 70MHz, 100MHz, 200MHz models
- ✓ Higher sample rate available up to 2GS/s
- ✓ Limited lifetime warranty (at least 10 years)
- ✓ Supports NI LabVIEW SignalExpress

Tektronix MSO2000B and DPO2000B Series

- ✓ Wave Inspector® Navigation and Search for efficient evaluation of records up to 1 million points
- ✓ 7-inch TFT Display
- ✓ Decode, search and trigger on serial buses like I²C, SPI, RS-232 and others
- ✓ 16 digital channels (MSO Series)