

TBS1000B/-EDU Series vs. Lecroy WaveAce1000/2000 Series

Competitive Fact Sheet

Ease of Use

Tektronix TBS1000B/-EDU Series

- ✓ 7 inch (800X480) high-resolution display with updated UI similar to Tek DPO oscilloscopes
- ✓ 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
- ✓ Trigger View button shows how the trigger settings affect the trigger signal
- ✓ AutoRange button adjusts controls to produce a usable display
- ✓ Dedicated buttons for FFT & SW applications.



Lecroy WaveAce1000/2000 Series

- ✗ 7 inch (480X234) resolution display with legacy user interface.
- ✗ No help index and no hyperlinks, makes it difficult to jump between topics.
- ✗ No probe check function
- ✗ No trig view function
- ✗ No AutoRange function
- ✗ No dedicated buttons for FFT & SW apps



Key Specifications Comparison

	Tektronix TBS1000B/-EDU Series		Lecroy WaveAce 1000/2000 Series	
Channels	✓	2	✓	2
Bandwidth	✓	50, 70, 100, 150, 200 MHz	✓	1000Series: 40, 60 & 100MHz 2000Series: 70, 100, 200 & 300MHz
Max. Sample Rate (All channels on)	✓	BW<100MHz: 1 GS/s BW>=100MHz: 2 GS/s	✗	1000Series: 500 MS/s 2000Series: 1GS/s
Max. Record Length (All channels on)	✗	2.5k points	✓	1000Series: 1M points 2000Series: 12k points
Auto Measurement	✓	Best-in-class 34 auto measurements	✗	32 auto measurements
Frequency Counter	✓	Dual-Channel	✗	Single-Channel
App Functions	TBS1000B: ✓TrendPlot, ✓Enhanced Limit test w/ dual waveforms based mask option TBS1000B-EDU: ✓CourseWare function ✓Autoset Enable/Disable ✓Ecosystem with free courseware on tek.com compatible with oscilloscope		Lecroy WaveAce1000/2000 Series ✗ No TrendPlot ✗ Std Limit Test w/o dual waveform based mask option ✗ No CourseWare function ✗ No Autoset enable/Disable ✗ No courseware-like Ecosystem on Lecroy website.	

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Competitive Fact Sheet

Higher Sample rate/Bandwidth ratio

The TBS1000B/-EDU series offers higher sample rate/bandwidth ratios which reconstruct waveforms more accurately and reduce the possibility of aliasing

Tektronix TBS1000B/-EDU	Bandwidth	Sample rate(all CHs on)	Sample rate/ Bandwidth	Lecroy WaveAce1000	Bandwidth	Sample rate(all CHs on)	Sample rate/ Bandwidth	Lecroy WaveAce2000	Bandwidth	Sample rate(all CHs on)	Sample rate/ Bandwidth
TBS1052B(-EDU)	50MHz	1GS/s	20 times	WaveAce1001	40MHz	500MS/s	12.5 times				
TBS1072B(-EDU)	70MHz	1GS/s	14.2 times	WaveAce1002	60MHz	500MS/s	8.3 times	WaveAce2002	70MHz	1GS/s	14.2 times
TBS1102B(-EDU)	100MHz	2GS/s	20 times	WaveAce1012	100MHz	500MS/s	5 times	WaveAce2012	100MHz	1GS/s	10 times
TBS1152B(-EDU)	150MHz	2GS/s	13.3 times								
TBS1202B(-EDU)	200MHz	2GS/s	10 times					WaveAce2022	200MHz	1GS/s	5 times
								WaveAce2032	300MHz	1GS/s	3.3 times

Portability and Work Environment

Tektronix

TBS1000B/-EDU Series

- ✓ Tektronix' customized integrated circuit minimizes the component count and increases reliability
- ✓ 300V_{RMS} CAT II. Rated for measurements on circuits directly connect to mains.
- ✓ 2.0 kg weight
- ✓ Silent operation, no cooling fan
- ✓ Rubberized footing enhances stability on test benches
- ✓ Operating from 0°C to +50°C;
- ✓ Operating up to 80% RH at or below +40 °C
Up to 45% RH up to +50 °C
- ✓ 30 W max power consumption
- ✓ 5 year warranty

Lecroy

WaveAce1000 Series

- ✗ Large component count using off-the-shelf electronics
- ✗ 400V_{pk} CAT I. Rated for measurements on circuits not connected to mains.
- ✗ 1000Series: 2.8 kg weight
2000Series: 3.3 kg weight
- ✗ Contains a cooling fan
- ✗ Non rubberized footing, can move or slide accidentally.
- ✗ Operating from 10°C to +40°C;
- ✗ Operating up to 80% RH at or below +31 °C
Up to 50 % RH at 40 °C
- ✗ 50 W max power consumption
- ✗ 3 year warranty

Other Advanced Featured Options from Tektronix

Tektronix TDS2000C Series

- ✓ 4 channel models with 70MHz, 100MHz & 200MHz bandwidths
- ✓ Limited life time warranty (at least 10 years)

Tektronix 4 channel TBS1000 Series

- ✓ 4 channel models with 60MHz, 100MHz & 150MHz bandwidths

Tektronix MSO2000B and DPO2000B Series

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