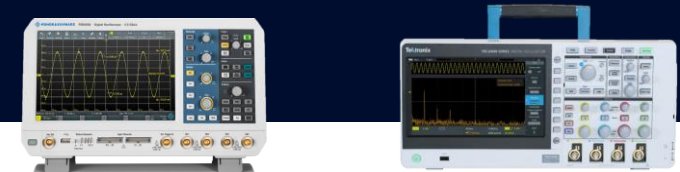
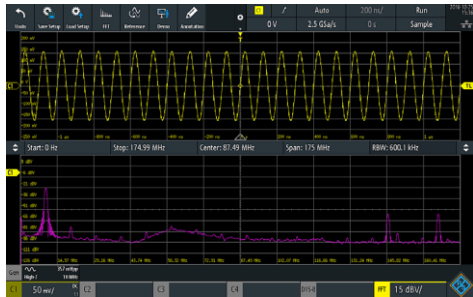


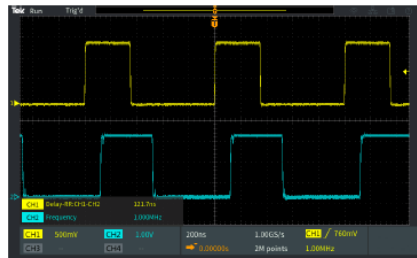
# R&S®RTB2000 versus Tektronix TBS2000B



The R&S®RTB2000 outperforms the Tektronix TBS2000B Series in major parameters with the power of 10.



R&S®RTB2000: 10.1" display, 1280 x 800 pixel resolution.



Tektronix TBS2000B: 9" display, 800 x 480 pixel resolution

Your benefit	Features
10-bit ADC: four times more vertical resolution	The proprietary Rohde & Schwarz 10-bit ADC used in the R&S®RTB2000 allow four times more vertical resolution compared to standard 8-bit ADC in the Tektronix TBS2000B. Finer voltage measurements become important as the voltage levels decrease.
10 Msample memory: capture longer periods	The responsive 160 Msample history memory per channel with quick zoom functions allow 8 times more acquisition time than the Tektronix TBS2000B at the same sample rate.
10.1" high-resolution capacitive touchscreen with gesture support	The capacitive touchscreen of the R&S®RTB2000 offers about three times more resolution than the display of the Tektronix TBS2000B. Gesture support enables fastest setting times and short learning time.

Parameter	R&S®RTB2000	Tektronix TBS2000B
<b>Acquisition system</b>		
Channels	4/2 for all models	4/2 for all models
Bandwidth (MHz)	70/100/200/300 MHz (upgradable)	70/100/200 MHz (upgradable)
ADC resolution	10-bit	8-bit
Max. resolution	16-bit with high resolution	8-bit
Max. realtime sampling rate	2.5 Gsample/s	2 Gsample/s
Standard memory depth	10 Msample per ch all channels 20 Msample interleaved	5 Msample per ch all channels
Segmented memory depth/history mode	optional – 160 Msample	–
Waveform update rate	50 000 waveforms/s standard 300 000 waveforms/s in fast segmented memory mode	10 000 waveforms/s standard
MSO sampling rate / memory	1.25 Gsample/s, 16 digital channels / 10 Msample, upgradable	–
Hardware input sensitivity	1 mV	2 mV
<b>X-in-1 oscilloscope</b>		
Serial decode options	I <sup>2</sup> C, SPI, UART/RS-232/422/485, CAN, LIN (analog and digital channels)	–
Generator option	function and arbitrary, 4-bit pattern	–
Frequency Response Analysis (Bode Plot)	yes	–
Multifunction	DVM, counter	counter
<b>Form factor</b>		
Display	10.1" (1280 x 800)	9" (800 x 480)
Touchscreen	yes – capacitive	–
Grid annotation	yes	–
Boot time	~ 10 s	~ 30 s
Dimensions	390 mm x 220 x 152 mm	413 x 202 x 128 mm (4 ch), 372 x 175 x 103 mm (2 ch)
Weight	2.5 kg	4.2 kg (4 ch), 2.6 kg (2 ch)



For price and more information:  
[www.rohde-schwarz.com/catalog/RTB](http://www.rohde-schwarz.com/catalog/RTB)

## Innovative user interface, quick and easy to use



The R&S®RTB2000 user interface offers features not available on the Tektronix TBS2000B Series.

- ▶ Touchscreen with gesture support and on-screen annotation
- ▶ Mouse support
- ▶ Grid annotations for easy determination of vertical and horizontal values
- ▶ Pull up/down menu for optimized waveform viewing
- ▶ Quick measure button to immediately display nine automated measurements on the signal



Configurable toolbar (including undo and redo) for fast access to functions and quick finger annotation, allowing fast operation and documentation.

### Education mode

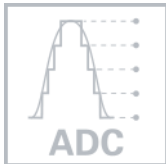
The R&S®RTB2000 gives accurate and fast results. With its modern multifunction capabilities, including a built-in generator, it is the perfect tool for education. For classroom training, the education mode deactivates comfort functions such as autoset, quick measure and automatic measurements.

### More investment protection

When it comes to investment protection, the R&S®RTB2000 is again class leading. Buy only what you need today and upgrade later as your needs grow. After-purchase upgrades are available for:

- ▶ Bandwidth up to 300 MHz
- ▶ Digital channels (mixed signal option)
- ▶ Serial triggering and decoding of I<sup>2</sup>C, SPI, UART/RS-232/422/485, CAN/LIN
- ▶ History mode with up to 160 Msample memory
- ▶ Function, arbitrary and pattern generator

## Advantage factors of R&S®RTB2000 versus Tektronix TBS2000B Series



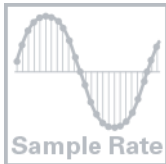
**4 x**  
More ADC resolution



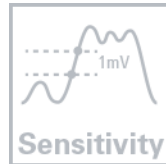
**2 x**  
More memory



**1.12 x**  
More display area



**25 %**  
More sample rate



**2 x**  
Lower sensitivity



**3 x**  
Faster boot-up

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