

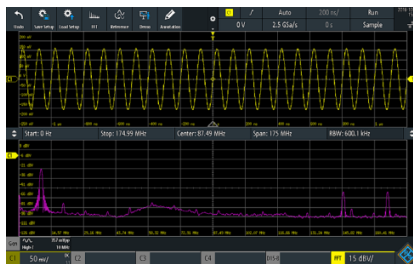

ROHDE & SCHWARZ

Make ideas real

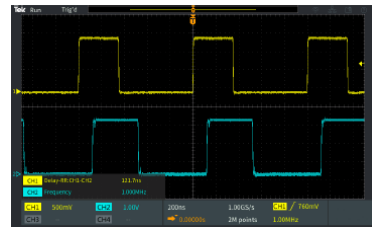
R&S®RTB2000 versus Tektronix TBS2000



The R&S®RTB2000 outperforms the Tektronix TBS2000 Series in major parameters with the power of 10



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



Tektronix TBS2000: 9" display, 800 × 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 the standard 8-bit ADC in the Tektronix TBS2000. 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 eight times more acquisition time than the Tektronix TBS2000 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 TBS2000. Gesture support enables fast setting times and short learning time.

Parameter	R&S®RTB2000	Tektronix TBS2000
Acquisition system		
Channels	4/2 for all models	4/2 for all models
Bandwidth (MHz)	70/100/200/300 MHz (upgradeable)	70/100 MHz (upgradeable)
ADC resolution	10-bit	8-bit
Max. resolution	16-bit with high resolution	8-bit
Max. realtime sampling rate	2.5 Gsample/s	1 Gsample/s
Standard memory depth	10 Msample per channel (all channels) 20 Msample (interleaved)	20 Msample per channel (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, upgradeable	–
Hardware input sensitivity	1 mV	2 mV
X-in-1 oscilloscope		
Serial decode options	I ² 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
Form factor		
Display	10.1" (1280 × 800) pixel resolution	9" (800 × 480) pixel resolution
Touchscreen	yes – capacitive	–
Grid annotation	yes	–
Boot time	~ 10 s	~ 30 s
Dimensions	390 mm × 220 mm × 152 mm	413 mm × 202 mm × 128 mm (4 channel), 372 mm × 175 mm × 103 mm (2 channel)
Weight	2.5 kg	4.2 kg (4 channel), 2.6 kg (2 channel)

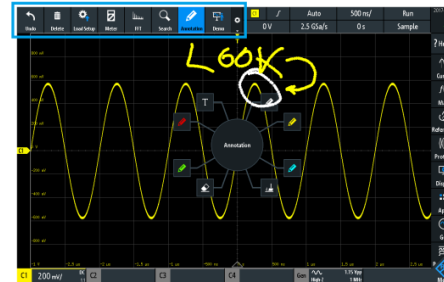
► For more information, visit www.rohde-schwarz.com/catalog/RTB2000

Innovative user interface, quick and easy to use



The R&S®RTB2000 user interface offers features not available on the Tektronix TBS2000 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

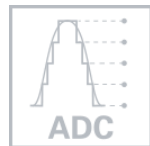
The R&S®RTB2000 gives accurate and fast results. With its modern multifunction capabilities, including a built-in generator, it is the perfect tool for education. For classroom training, the education mode deactivates comfort functions such as autoset, quick measure and automatic measurements.

More investment protection

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

- ▶ Bandwidth up to 300 MHz
- ▶ Digital channels (mixed signal option)
- ▶ Serial triggering and decoding of I²C, SPI, UART/RS-232/422/485, CAN/LIN
- ▶ History mode with up to 160 Msample memory
- ▶ Function, arbitrary and pattern generator

Advantages of R&S®RTB2000 over Tektronix TBS2000 Series



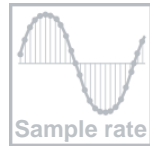
4 x
More ADC resolution



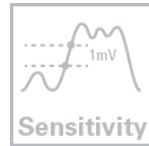
1 x
More memory



1.12 x
More display area



2.5 x
More sample rate



2 x
Lower sensitivity



3 x
Faster boot-up

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