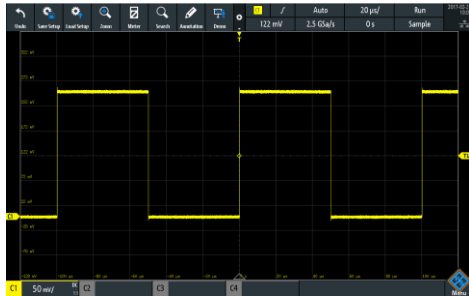


R&S®RTB2000

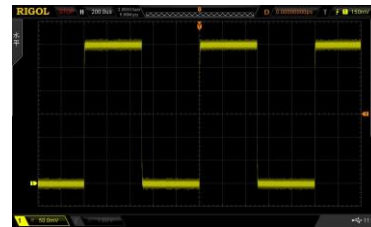
versus Rigol MSO/DS2000A



The R&S®RTB2000 outperforms the Rigol MSO/DS 2000A Series in major parameters with the power of 10



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



Rigol MSO/DS2000A: 8" 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 Rigol MSO/DS2000A. Finer voltage measurements become important as the voltage levels decrease.
10 Msample memory: capture longer periods	The responsive 10 Msample memory per channel with quick zoom functions allow more acquisition time than the Rigol MSO/DS2000A 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 Rigol MSO/DS2000A Series. Gesture support enables fast setting times and short learning time.

Parameter	R&S®RTB2000	Rigol MSO/DS2000A
Acquisition system		
Channels	4/2 for all models	2 for all models
Bandwidth	70/100/200/300 MHz (upgradeable)	70/100/200/300 MHz
ADC resolution	10-bit	8-bit
Max. resolution	16-bit with high resolution	8-bit
Max. sampling rate	2.5 Gsample/s	2 Gsample/s
Standard memory depth	10 Msample per channel (all channels) 20 Msample (interleaved)	7 Msample per channel (all channels) 14 Msample (interleaved)
Segmented memory depth/history mode	Optional – 160 Msample	Optional – 56 Msample
Waveform update rate	50 000 waveforms/s standard 300 000 waveforms/s in fast segmented memory mode	50 000 waveforms/s standard
MSO sampling rate / memory	1.25 Gsample/s, 16 digital channels / 10 Msample, upgradeable	0.5 Gsample/s, 16 digital channels, 14 Msample, MSO models
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)	I ² C, SPI, UART/RS-232/422/485, CAN
Generator option	Function and arbitrary, 4-bit pattern	Function and arbitrary in specific models
Frequency response analysis (Bode plot)	yes	–
Multifunction	DVM, counter	counter
Form factor		
Display	10.1" (1280 × 800) pixel resolution	8" (800 × 480) pixel resolution
Touchscreen	yes – capacitive	–
Grid annotation	yes	–
Boot time	~ 10 s	~ 21 s
Dimensions	390 mm × 220 mm × 152 mm	362 mm × 180 mm × 131 mm
Weight	2.5 kg	3.9 kg

Innovative user interface, quick and easy to use



The R&S®RTB2000 user interface offers features not available on the Rigol MSO/DS 2000A 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 Rigol MSO/DS 2000A Series



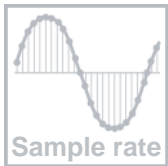
4 x
More ADC resolution



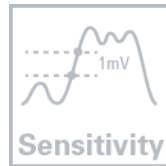
0.36 x
More memory



1.26 x
More display area



1.3 x
More sample rate



0.5 x
Lower sensitivity



2.1 x
Faster boot-up

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