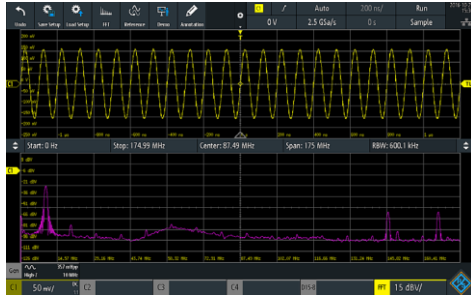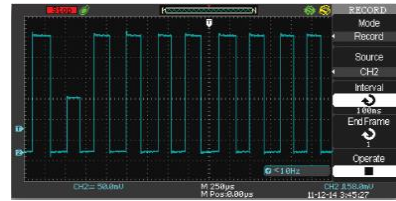# ROHDE&SCHWARZ
Make ideas real

R&S®RTB2000
versus Teledyne LeCroy WaveAce 2000

The R&S®RTB2000 outperforms the Teledyne LeCroy WA2000 Series in major parameters with the power of 10

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

Teledyne LeCroy WA 2000: 7" display, 480 × 234 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 Teledyne LeCroy WA 2000. 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 an order of magnitude more acquisition time than the Teledyne LeCroy WA 2000 Series at the same sample rate.
10.1" high-resolution capacitive touchscreen with gesture support	The capacitive touchscreen of the R&S®RTB2000 offers about nine times more resolution than the display of the Teledyne LeCroy WA 2000 Series. Gesture support enables fast setting times and short learning time.

Parameter	R&S®RTB2000	LeCroy WA 2000
Acquisition system		
Channels	4/2 for all models	4/2 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)	0.024 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	100 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	I²C, 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	–
Form factor		
Display	10.1" (1280 × 800) pixel resolution	7" (480 × 234) pixel resolution
Touchscreen	yes – capacitive	–
Grid annotation	yes	–
Boot time	~ 10 s	~ 50 s
Dimensions	390 mm × 220 mm × 152 mm	360 mm × 163 mm × 124 mm
Weight	2.5 kg	3.3 kg

Innovative user interface, quick and easy to use

The R&S®RTB2000 user interface offers features not available on the Teledyne LeCroy WA2000 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

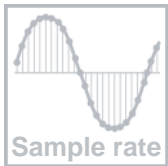## Advantages of R&S®RTB2000 over Teledyne LeCroy WA2000 Series
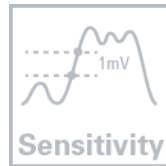
4 x More ADC resolution

833 x More memory

1.4 x More display area

1.3 x More sample rate

2 x Lower sensitivity