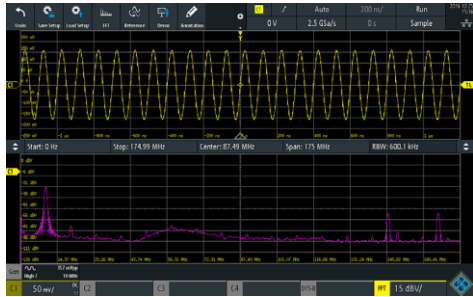


# R&S®RTB2000

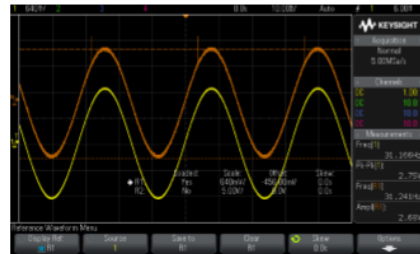
versus

# Keysight DSO/MSOX2000A

The R&S®RTB2000 outperforms the Keysight InfiniiVision 2000 X-series in major parameters with the power of 10.



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



Keysight DSO/MSOX2000A: 8.5" 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 Keysight DSO/MSOX2000A. Finer voltage measurements become important as the voltage levels decrease. |
| 10 Msample memory: capture longer periods                         | The responsive 10Msample memory per channel with quick zoom functions allow 100 times more acquisition time than the Keysight DSO/MSOX2000A at the same sample rate.   |
| 10.1" high-resolution capacitive touchscreen with gesture support | The capacitive touchscreen of the R&S®RTB2000 offers about 3 times more resolution than the display of the Keysight InfiniiVision 2000X Series. Gesture support enables fastest setting times and short learning time.                                 |

► For more information, see [www.rohde-schwarz.com/product/RTB2000](http://www.rohde-schwarz.com/product/RTB2000)

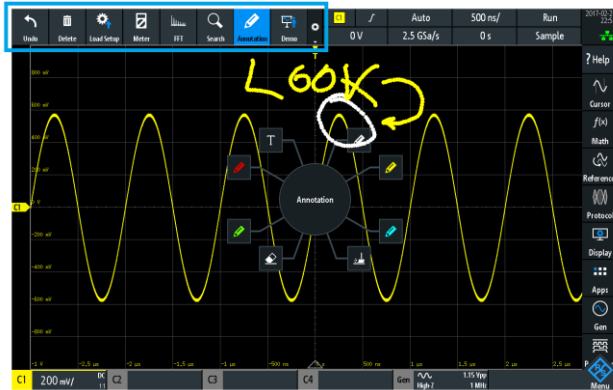


| Parameter             | R&S®RTB2000   | Keysight InfiniiVision 2000X   |
|-----------------------|---|--|
| Channels              | 4/2 for all models  | 4/2 for all models   |
| Bandwidth             | 70/100/200/300 MHz upgradeable  | 70/100/200 MHz   |
| Min. V/div @ 1 MΩ     | 1 mV  | 4 mV   |
| Max. sampling rate    | 2.5 Gsample/s   | 2 Gsample/s  |
| ADC resolution        | 10-bit  | 8-bit  |
| Memory depth          | 20 Msample  | 0.1 Msample, 1 Msample optional  |
| Waveform update rate  | 50 000 waveforms/s<br>300 000 waveforms/s in fast segmented memory mode         | 200 000 waveforms/s  |
| MSO                   | R&S®RTB-B1 option, 1.25 Gsample/s, 16 digital channels, 10 Msample, upgradeable | DSOX2MSO option, 1 Gsample/s, 8 digital channels, 12.5 ksample, 125 ksample optional |
| Display               | 10.1", 1280 x 800 pixel   | 8.5", 800 x 480 pixel  |
| Touchscreen operation | capacitive with gesture support   | -  |
| Boot time             | 10 s  | 50 s   |
| Multifunction         | DVM, counter  | DVM, counter   |
| LAN interface         | standard 10/100/1000BASE-T  | option   |
| Warranty              | 3 years   | 5 years  |
| Size, W x H x D       | 390 x 220 x 152 mm  | 381 x 204 x 142 mm   |
| Weight                | 2.5 kg  | 3.9 kg   |
| Generator option      | function and arbitrary, 4-bit pattern   | function only  |
| History mode option   | up to 160 Msample in 16 to 13000 segments                                       | -  |
| Serial decode options | I <sup>2</sup> C, SPI, UART/RS-232/422/485, CAN, LIN                            | I <sup>2</sup> C, SPI, UART/RS-232/422/485, CAN, LIN (on analog channel only)        |

## Innovative user interface, quick and easy to use

The R&S®RTB2000 user interface offers features not available on the Keysight InfiniiVision 2000 X-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 Keysight InfiniiVision 2000 X-series



**4x**  
More ADC resolution



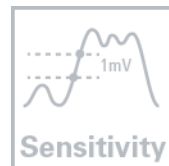
**20x**  
More memory



**1.49x**  
More display area



**1.3x**  
More sample rate



**4x**  
Lower sensitivity



**5x**  
Faster boot-up