



# R&S® RTB2000 OSCILLOSCOPES

## Power of 10

The perfect choice for

R&D troubleshooting

Education

Production tests and repair

Electronics hobbyists



### More signal details with the power of 10

What sets these scopes apart from all others in their class? New, advanced technology.

- ▶ 10-bit ADC – see small signal details in the presence of large signals
- ▶ 10 Msample acquisition memory depth on each channel (20 Msample when interleaved)
- ▶ Large 10.1" high-resolution capacitive touchscreen with gesture support

Key specifications	
Bandwidth	70 MHz, 100 MHz, 200 MHz, 300 MHz
Channels	2 or 4 analog channels + 16 digital channels (with MSO option)
Max. sample rate	2.5 Gsample/s (interleaved), 1.25 Gsample/s (all channels)
Memory	10 Msample, 20 Msample (interleaved)
Display	10.1" capacitive touch, 1280 × 800 pixel resolution
ADC	10-bit
Boot time	10 seconds
Max. update rate	50,000 waveforms per second
Connectivity	LAN, USB host and device ports
upgradeable	Bandwidth, protocol trigger and decode, MSO, pattern generator and arbitrary waveform generator
Warranty	Standard 3-year

Your benefit	Features
See small signal details in the presence of large signals	10-bit ADC, 1280 × 800 pixel display resolution
Capture more time at full bandwidth	2.5 Gsample/s max. sample rate with up to 20 Msample memory, 12 horizontal grid lines
Easier to see and collaborate. Faster to operate and interpret results.	10.1" capacitive touchscreen with 1280 × 800 resolution, grid annotation, split dual window



致力于电子测试、维护领域!

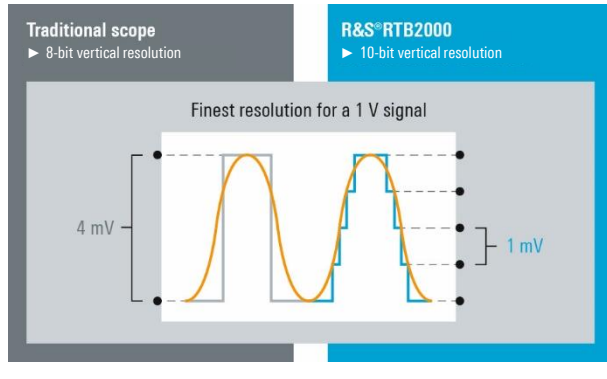
## 10 to 100 times more memory depth compared to traditional oscilloscopes in the same instrument class

Capture the longest time periods with class-leading 160 Msample memory



Standard memory Optional segmented memory

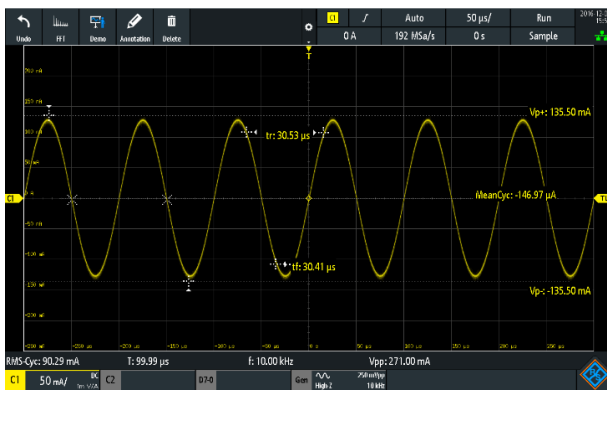
## 10-bit A/D converter: uncovers even small signal details



## X-in-1 oscilloscope



## QuickMeas: automatic measurement and graphical display at the push of a button.



## Ordering information

### Step 1: choose your oscilloscope model <sup>1)</sup>

Two-channel model	R&S®RTC1002
Four-channel model	R&S®RTB2004

<sup>1)</sup> All models include the R&S®RT-ZP03 single-ended passive probe for each channel, power cord and 3-year warranty.

### Step 2: choose your bandwidth option

70 MHz bandwidth	Standard for two-channel and four-channel models
100 MHz bandwidth	R&S®RTB-B221 for R&S®RTB2002 R&S®RTB-B241 for R&S®RTB2004
200 MHz bandwidth	R&S®RTB-B222 for R&S®RTB2002 R&S®RTB-B242 for R&S®RTB2004
300 MHz bandwidth	R&S®RTB-B223 for R&S®RTB2002 R&S®RTB-B243 for R&S®RTB2004

### Step 3: choose your options and accessories

#### Software options

Triggering and decoding	R&S®RTB-K1 I <sup>2</sup> C/SPI R&S®RTB-K2 UART/RS-232/422/485 R&S®RTB-K3 CAN/LIN
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History and segmented memory	R&S®RTB-K15
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Frequency response analysis (Bode plot)	R&S®RTB-K36
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Application bundle	R&S®RTB-PK1 (-K1, -K2, -K3, -K15, -K36, -B6)
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#### Hardware options

R&S®RTB-B1 mixed signal upgrade for non-MSO models, 250 MHz

R&S®RTB-B6 arbitrary waveform generator

#### Accessories

R&S®RTB-Z1 plastic front cover

R&S®RTB-Z3 soft carrying bag

R&S®RTB-Z4 transit case

R&S®ZZA-RTB2K rackmount kit

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