R&S®RTB2000 Digital Oscilloscopes
Power of 10

The perfect choice for

R&D troubleshooting	Education
Production tests and repair	**Electronic hobbyists**

More signal details with the power of 10

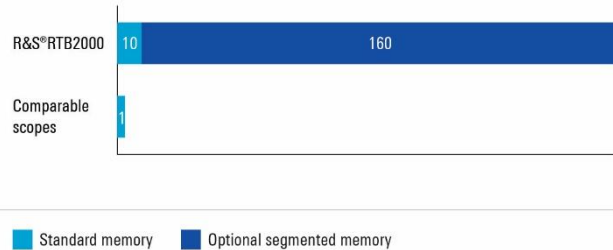What sets these scopes apart from all others in their class? New, advanced technology.

- 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 x 800 resolution
ADC	10-bit
Boot time	10 seconds
Max. update rate	50,000 waveforms per second
Connectivity	LAN, USB host and device ports
Upgradable	bandwidth, protocol trigger and decode, MSO, pattern generator and arbitrary waveform generator
Warranty	standard 3-year

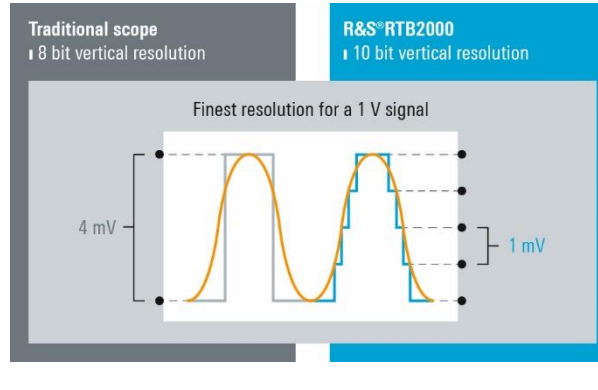| Your benefit	Features
See small signal detail in the presence of large signals	10-bit ADC, 1280 x 800 pixel display resolution
Capture more time at full bandwidth	2.5 Gsample/s max. sample rate with up to 20 Msample memory, 12 horizontal divisions
Easier to see and collaborate. Faster to operate and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

▷ For more information,
   see www.rohde-schwarz.com/product/RTB2000

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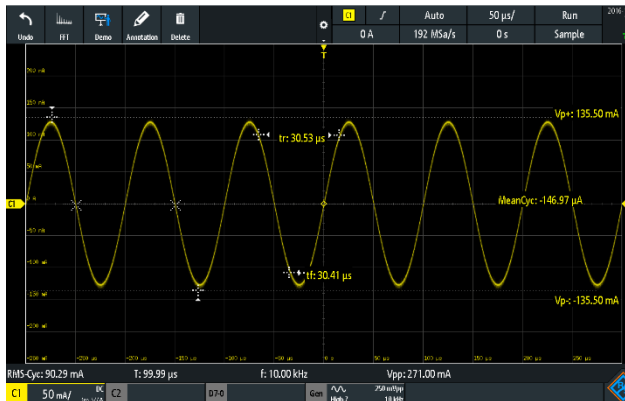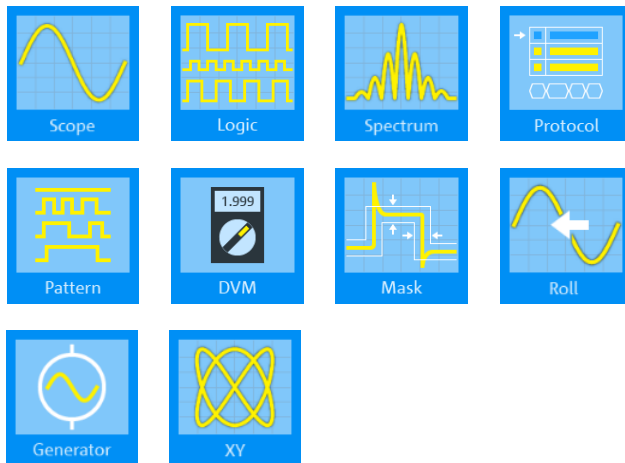## 10 to 100 times more memory depth compared to traditional oscilloscopes in the same instrument class

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

- Standard memory
- Optional segmented memory

X-in-1 oscilloscope

Scope | Logic | Spectrum | Protocol

Pattern | DVM | Mask | Roll

Generator | XY

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

Traditional scope	R&S®RTB2000
8 bit vertical resolution	10 bit vertical resolution

Finest resolution for a 1 V signal

4 mV

1 mV

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

Ordering information

Step 1: choose your oscilloscope model

Two-channel model: R&S®RTB2002	
Four-channel model: R&S®RTB2004	

Included accessories: 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 I2C/SPI R&S®RTB-K2 UART/RS-232/422/485 R&S®RTB-K3 CAN/LIN
History and segmented memory	R&S®RTB-15
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®ZZA-RTB2K rackmount kit	

Rohde & Schwarz Representative