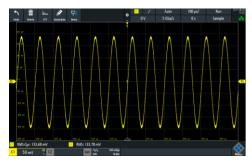
R&S®RTM3000

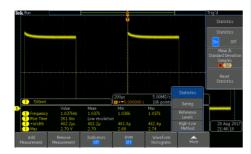
versus

Tektronix MD03000

The R&S®RTM3000 outperforms the Tektronix MDO3000 in key parameters with the power of ten.



R&S®RTM3000: 10.1" display, 1280 x 800 pixel resolution



Tektronix MDO3000: 9" display, 800 x 480 pixel resolution

Your benefit	Features
Sharp waveforms, more accurate measurements	10-bit ADC with the R&S®RTM3000 oscilloscope's low-noise frontend gives you more accurate measurements and sharper waveforms.
Capture long periods at high sample rate	The R&S®RTM3000 oscilloscope's standard deep memory gives you extra insurance for those difficult measurements where other scopes run out of capacity.
Debug in the domain you're most comfortable with	Not only does the R&S®RTM3000 provide excellent time domain capabilities, it also offers advanced frequency domain analysis with simple RF setup, spectrogram and time-gated RF views.





Parameter	R&S®RTM3000	Tektronix MDO3000	
Acquisition system			
Bandwidth (MHz)	100, 200, 350, 500, 1000 (1GHz) (upgradable)	100, 200, 350, 500, 1000 (1GHz) (upgradable)	
ADC resolution	10-bit	8-bit	
Max. resolution	16-bit with high resolution	11-bit with high resolution	
Max. realtime sampling rate	5 Gsample/s	2.5 Gsample/s (100, 200, 350, 500 MHz) 5 Gsample/s (1 GHz)	
Standard memory depth	40 Msample per ch all channels 80 Msample interleaved	10 Msample per ch all channels	
Segmented memory depth/history mode	optional – 400 Msample	no	
Waveform update rate	64 000 waveforms/s	235 000 to 280 000 waveforms/s	
MSO sampling rate / memory	5 Gsample/s / 80 Msample	500 Msample/s / 10 Msample	
Hardware dynamic range, full bandwidth	1MΩ: 5mV to 100V 50Ω: 5mV to 10V	1MΩ: 50mV to 100V 50Ω: 50mV to 10V	
Multi-domain analysis	yes, 4 inputs up to bandwidth of base unit with spectrogram	yes, 1 input up to bandwidth of base unit optional up to 3 GHz	
Passive probes	500 MHz 10:1	500 MHz 10:1 on 500 MHz and below 1 GHz 10:1 on 1 GHz scopes	
Accuracy			
DC gain accuracy	1.5 % to 3 %	1.5 % to 3 %	
Channel-to-channel isolation	> 50 dB up to bandwidth of scope	> 40 dB at ≤ 100 MHz > 30 dB at > 100 MHz BW	
Form factor			
Display	10.1" (1280 × 800)	9" (800×480)	
Touchscreen	yes – capacitive	no	
Grid annotation	yes	no	
Boot time	~ 10 s	~ 45 s	

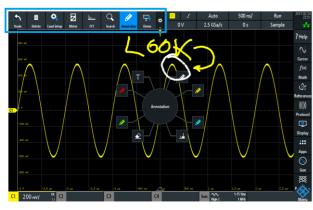




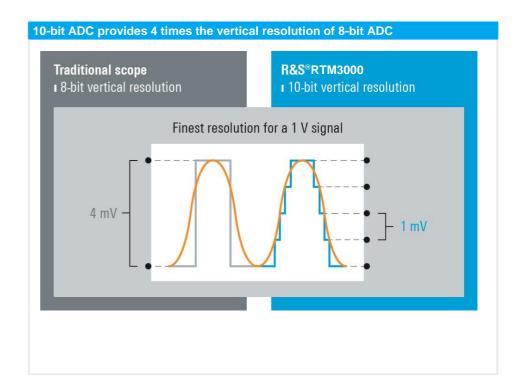
Innovative user interface, quick and easy to use

The R&S®RTM3000 user interface offers features not available on the Tektronix MDO3000.

- 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.



Advantage factors of R&S®RTM3000 versus Tektronix MDO3000



4 times
more ADC resolution



8 times more memory



10 times

hardware dynamic range (full bandwidth)



more capacitive touch



more segmented memory



2.7 times more pixels

Rohde & Schwarz GmbH & Co. KG | Europe, Africa, Middle East +49 89 4129 12345 | North America 1 888 TEST RSA (1 888 837 87 72)

Latin America +1 410 910 79 88 | Asia Pacific +65 65 13 04 88 | China +86 800 810 82 28 / +86 400 650 58 96

www.rohde-schwarz.com | customersupport@rohde-schwarz.com