### ROHDE&SCHWARZ

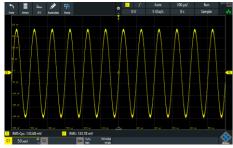
Make ideas real

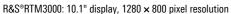


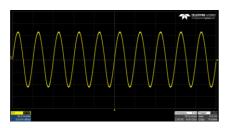
# R&S®RTM3000

## versus LeCroy WaveSurfer3000z









LeCroy WS3000z: 10.1" display, 1024 × 600 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 $^{\circ}$ RTM3000 provide excellent time domain capabilities, it also offers advanced frequency domain analysis with simple RF setup, spectrogram and time-gated RF views





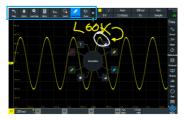
Parameter	R&S*RTM3000	LeCroy WS3000z
Acquisition system		
Bandwidth	100/200/350/500/1000 MHz (1 GHz) (upgradeable)	100/200/350/500/1000 MHz (1 GHz) (upgradeable)
Channels	2 or 4 analog channels	4 analog channels only
ADC resolution	10-bit	8-bit
Max. resolution	16-bit with high resolution or averaging	11-bit with ERES
Max. sampling rate	5 Gsample/s	4 Gsample/s
Standard memory depth	40 Msample per channel (all channels) 80 Msample (interleaved)	10 Msample per channel (all channels) 20 Msample (interleaved)
Segmented memory depth/history mode	Optional – 400 Msample	Standard – 10 Msample
Waveform update rate	64 000 waveforms/s standard 2 000 000 waveforms/s in fast segmented memory mode	130 000 waveforms/s standard
MSO sampling rate / memory	5 Gsample/s / 80 Msample	500 Msample/s / 10 Msample
Hardware input sensitivity	500 µV/div to 10 V/div	1 mV/div to 10 V/div
Frequency domain analysis	yes, 4 inputs up to bandwidth of base unit with spectrogram	yes, 4 inputs up to bandwidth of base unit
Accuracy		
DC gain accuracy	1.5 % to 3 %	1.5 % to 2.5 %
Channel-to-channel isolation	> 50 dB up to bandwidth of scope	not specified
Form factor		
Display	10.1" (1280 × 800) pixel resolution	10.1" WVGA (1024 $ imes$ 600) pixel resolution
Touchscreen	yes — capacitive	yes
Grid annotation	yes	-
Boot time	~ 10 s	~ 50 s

### Innovative user interface, quick and easy to use

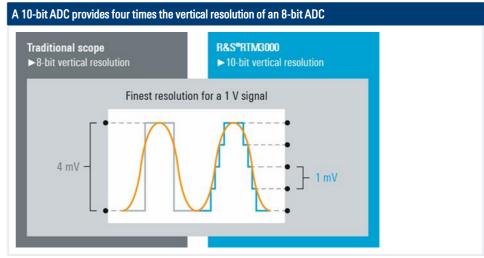


The R&S®RTM3000 user interface offers features not available on the LeCroy Wavesurfer3000z.

- ► 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



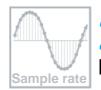
### Advantages of R&S®RTM3000 over LeCroy WaveSurfer3000



4 X More ADC resolution



4 X More memory



25 % Higher sampling rate



**5** X Faster boot time



40 X More segmented memory



2.7 X
More pixels

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