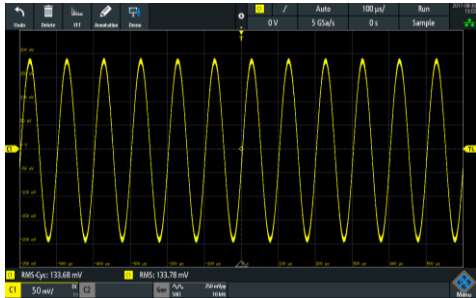


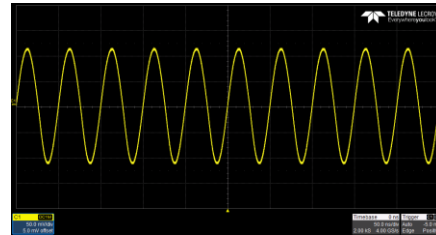
R&S®RTM3000

versus LeCroy WaveSurfer3000z

The R&S®RTM3000 outperforms the LeCroy WaveSurfer3000z in key parameters with the power of ten.



R&S®RTM3000: 10.1" display,
1280x800 pixel resolution



LeCroy WS3000z: 10.1" display,
1024x600 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.

► For more information,
see www.rohde-schwarz.com/catalog/rtm3000



Parameter	R&S®RTM3000	LeCroy WS3000z
Acquisition System		
Bandwidth (MHz)	100, 200, 350, 500, 1000 (1 GHz) (upgradable)	100, 200, 350, 500, 1000 (1 GHz) (upgradable)
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 ch all channels 80 Msample interleaved	10 Msample per ch all channels 20 Msample interleaved
Segmented memory depth/history mode	optional – 400 Msample	standard – 10 Msample
Waveform update rate	64 000 waveforms/s 2 000 000 waveforms/s in fast segmented memory mode	130 000 waveforms/s
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
Multi-domain analysis	yes, 4 inputs up to 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 x 800)	10.1" WVGA (1024 x 600)
Touchscreen	yes – capacitive	yes
Grid annotation	yes	no
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.

- Grid annotations for easy determination of vertical and horizontal values
- Adjustable waveform diagram 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.

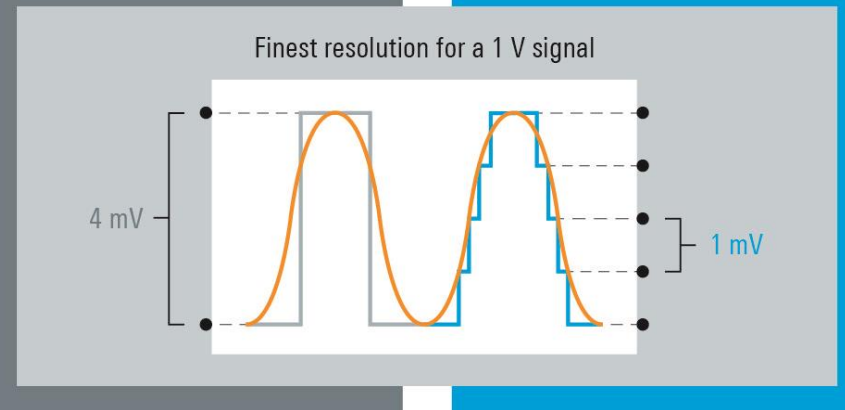
10-bit ADC provides 4 times the vertical resolution of 8-bit ADC

Traditional scope

8-bit vertical resolution

R&S®RTM3000

10-bit vertical resolution



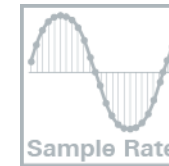
Advantage factors of R&S®RTM3000 versus LeCroy WaveSurfer3000



4 times
more ADC resolution



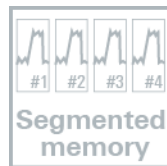
4 times
more memory



25 %
higher sampling rate



5 times
faster boot time



40 times
more segmented
memory