

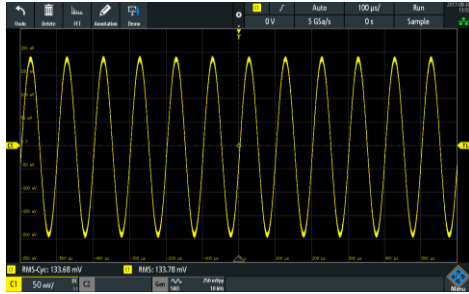


R&S®RTM3000

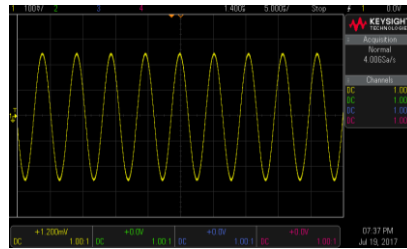
versus Keysight InfiniiVision 3000T X-Series



The R&S®RTM3000 outperforms the Keysight InfiniiVision 3000T X-Series in key parameters with the power of ten



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



Keysight X3000T: 8.5" display, 800 × 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

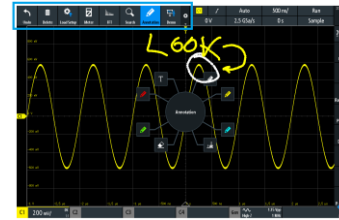
Parameter	R&S®RTM3000	Keysight InfiniiVision 3000T X-Series
Acquisition system		
Bandwidth	100/200/350/500/1000 MHz (1 GHz) (upgradeable)	100/200/350/500/1000 MHz (1 GHz) (upgradeable)
ADC resolution	10-bit	8-bit
Max. resolution	16-bit with high resolution or averaging	12-bit with averaging
Max. sampling rate	5 Gsample/s	5 Gsample/s
Memory depth	40 Msample per channel (all channels) 80 Msample (interleaved)	2 Msample per channel (all channels) 4 Msample (interleaved)
Segmented memory/history mode	optional – 400 Msample	standard – 4 Msample
Waveform update rate	64 000 waveforms/s standard 2 000 000 waveforms/s in fast segmented memory mode	1 000 000 waveforms/s standard
MSO sampling rate / memory	5 Gsample/s / 80 Msample	1.25 Gsample/s / 2 Msample
Hardware input sensitivity	500 μV/div to 10 V/div	4 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 %	2 % to 8 %
Channel-to-channel isolation	> 50 dB up to bandwidth of scope	> 40 dB up to bandwidth of scope
Form factor		
Display	10.1" (1280 × 800) pixel resolution	8.5" (800 × 480) pixel resolution
Touchscreen	yes – capacitive	yes - capacitive
Boot time	~ 10 s	~ 30 s

Innovative user interface, quick and easy to use



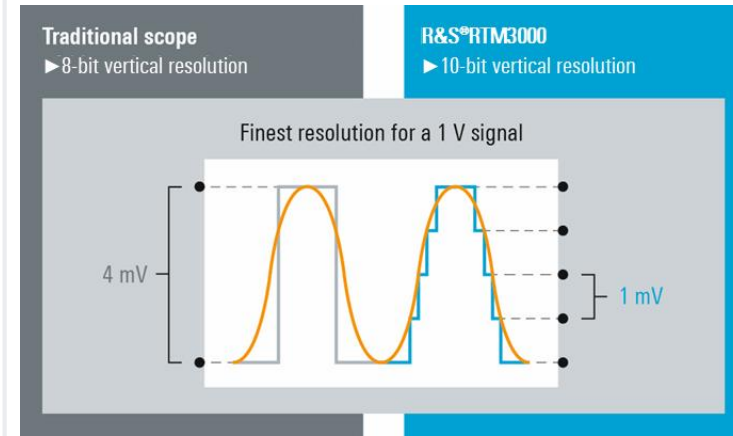
The R&S®RTM3000 user interface offers features not available on the Keysight 3000T X-Series.

- ▶ 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

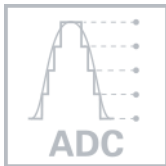


Configurable toolbar (including undo and redo) for fast access to functions and quick finger annotation, allowing fast operation and documentation

A 10-bit ADC provides four times the vertical resolution of an 8-bit ADC



Advantage factors of R&S®RTM3000 versus Keysight InfiniiVision X3000T



4 x
More ADC resolution



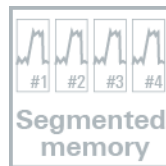
20 x
More memory



45 %
More display area



3 x
Faster boot time



100 x
More segmented memory



2.7 x
More pixels