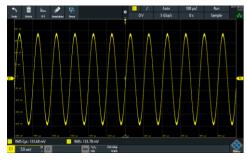
R&S®RTM3000

versus Keysight 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 x 800 pixel resolution

Keysight X3000T: 8.5" 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. |

▶ For more information,

see www.rohde-schwarz.com/catalog/rtm3000





| Parameter | R&S [®] RTM3000 | Keysight X3000T | |
|---|---|--|--|
| 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 or averaging | 12-bit with averaging | |
| Max sampling rate | 5 Gsample/s | 5 Gsample/s | |
| Memory depth | 40 Msample per ch all channels 80 Msample interleaved | 2 Msample per ch all channels 4 Msample interleaved | |
| Segmented memory/ history mode | optional – 400 Msample | standard – 4 Msample | |
| Waveform update rate | 64 000 waveforms/s | 1 000 000 waveforms/s | |
| MSO sampling rate / memory | 5 Gsample/s / 80 Msample | 1.25 Gsample/s / 2 Msample | |
| Hardware dynamic range, full bandwidth | 1 MΩ: 5mV to 100V 50 Ω: 5mV to 10V | 1MΩ: 32mV to 80V 50Ω: 32mV to 40V | |
| Multi-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) | 8.5″ (800 × 480) | |
| Touchscreen | yes – capacitive | yes - capacitive | |
| Boot time | ~ 10 s | ~ 30 s | |



Test & Measurement Comp. Sheet | 01.00

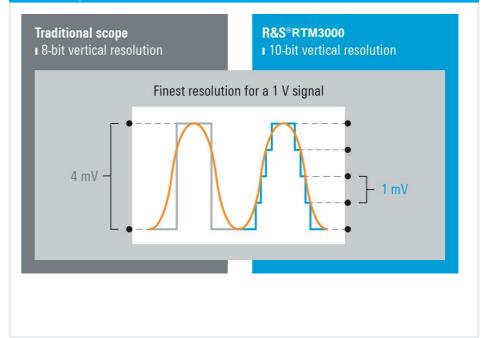
Innovative user interface, quick and easy to use

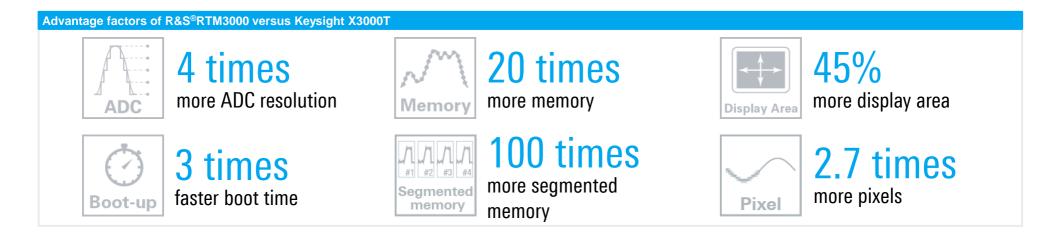
The R&S®RTM3000 user interface offers features not available on the Keysight X3000T.

- Touchscreen with gesture support and on-screen annotationMouse support
- I Grid annotations for easy determination of vertical and horizontal values
- I 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.





 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

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