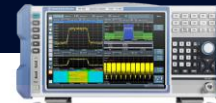


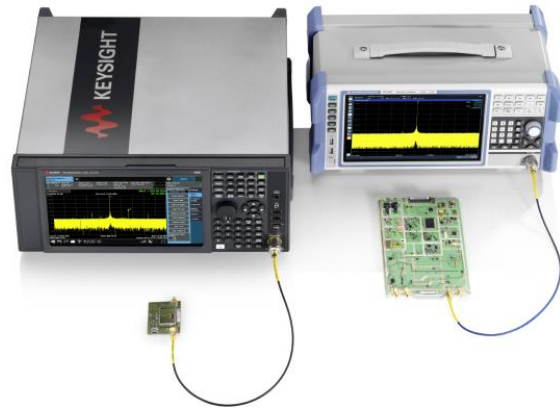


# R&S® FPL1000 versus Keysight N9000B CXA



## Don't waste valuable space on your workbench

The R&S®FPL1000 combines the functionality of a benchtop analyzer with the portability and usability of a handheld instrument. It weighs much less than the CXA and has a smaller footprint. The optional battery pack and DC power supply make the R&S®FPL1000 a portable instrument for the lab, in the field and in vehicles.



On a typical 80 cm workbench, the R&S®FPL1000 leaves 40 % more space than the Keysight N9000B CXA.

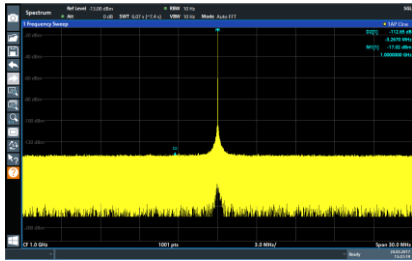
Your benefit	Features
More space on the workbench	Smallest footprint of all analyzers in its class
Portability	Optional battery and DC power
Most precise results	Best dynamic range (lowest noise and highest TOI) in its class

Parameter	R&S®FPL1000	Keysight N9000B CXA
Frequency range	5 kHz to 26.5 GHz	9 kHz to 26.5 GHz
Footprint	422 mm x 235 mm	426 mm x 368 mm
Screen	1280 x 800 pixel, multi-touch	1280 x 768 pixel, multi-touch
Weight	6 kg up to 8 Kg	15.4 kg
Battery operation	optional	no
12 V/24 V DC operation	optional	no
Internal generator (Independent CW, TG, Power Sweep)	optional (max. freq. 7.5 GHz)	Optional (max. freq. 6 GHz)
Analysis bandwidth	10 MHz standard, 40 MHz opt.	10 MHz standard, 25 MHz opt.
YIG Preselector filter	optional	no
DANL at 1 GHz preamp = OFF	< -149 dBm (-152 dBm typ.)	-148 dBm (-150 dBm typ.)
DANL at 1 GHz preamp = ON	< -163 dBm (-166 dBm typ.)	-161 dBm (-163 dBm typ.)
Spurious	< -70 dBc typ.	-60 dBc typ.
Phase noise at 1 GHz (10 kHz offset)	< -108 dBc/Hz typ.	< -110 dBc /Hz typ.
Phase noise at 1 GHz (1 MHz offset)	< -135 dBc/Hz typ.	< -130 dBc/1 Hz
Level uncertainty @ 50 MHz	< 0.3 dB	< 0.40 dB
TOI at 1 GHz (third-order intercept)	> 17 dBm	>13 dBm
Maximum dynamic range TOI at 1 GHz	-110 dB	-107 dB
Standard attenuator range	45 dB	50 dB
Attenuator step size	5 dB standard, 1 dB opt.	10 dB standard, 2 dB opt.
Simultaneous view of sequential measurements with MultiView	yes	no

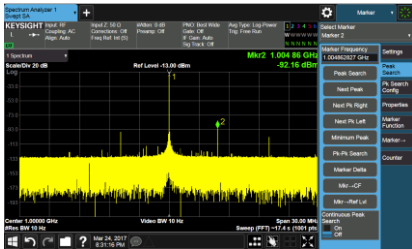


For more information, visit  
[www.rohde-schwarz.com/product/FPL1000](http://www.rohde-schwarz.com/product/FPL1000)

## Unambiguous spur detection only possible with the R&S®FPL1000

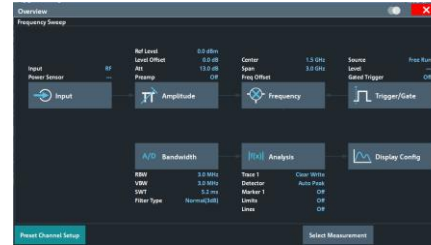


R&S®FPL1000: with an input signal of  $-17$  dBm at 1 GHz, and 0 dB attenuation with a 10 Hz RBW, the spurs are below  $-112$  dBc.

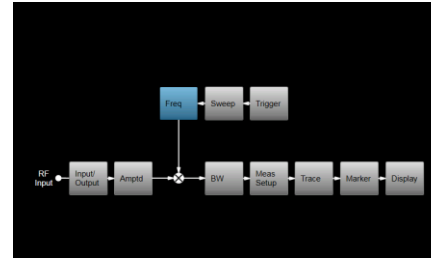


With the same signal and the same settings on the CXA, spurs appear from  $-75$  dBc onwards.

## Change parameters quickly and easily

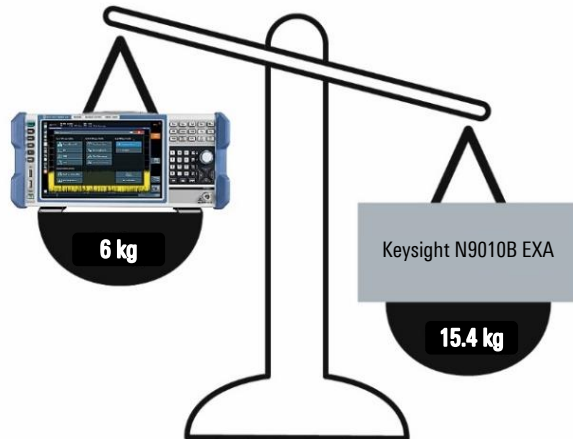


From the overview screen, parameters can be changed with just one tap.



The overview window on the CXA does not display the parameters that can be changed in each block.

## With a significantly lower weight, the R&S®FPL1000 is easy to carry



The R&S®FPL1000 weighs less than half of what the Keysight N9000B CXA weighs. The low weight and the optional battery/DC power make the R&S®FPL1000 a portable instrument.

## Competitive summary

- ▶ Better RF performance
- ▶ Smaller form factor
- ▶ Portability thanks to lower weight and optional battery/DC power