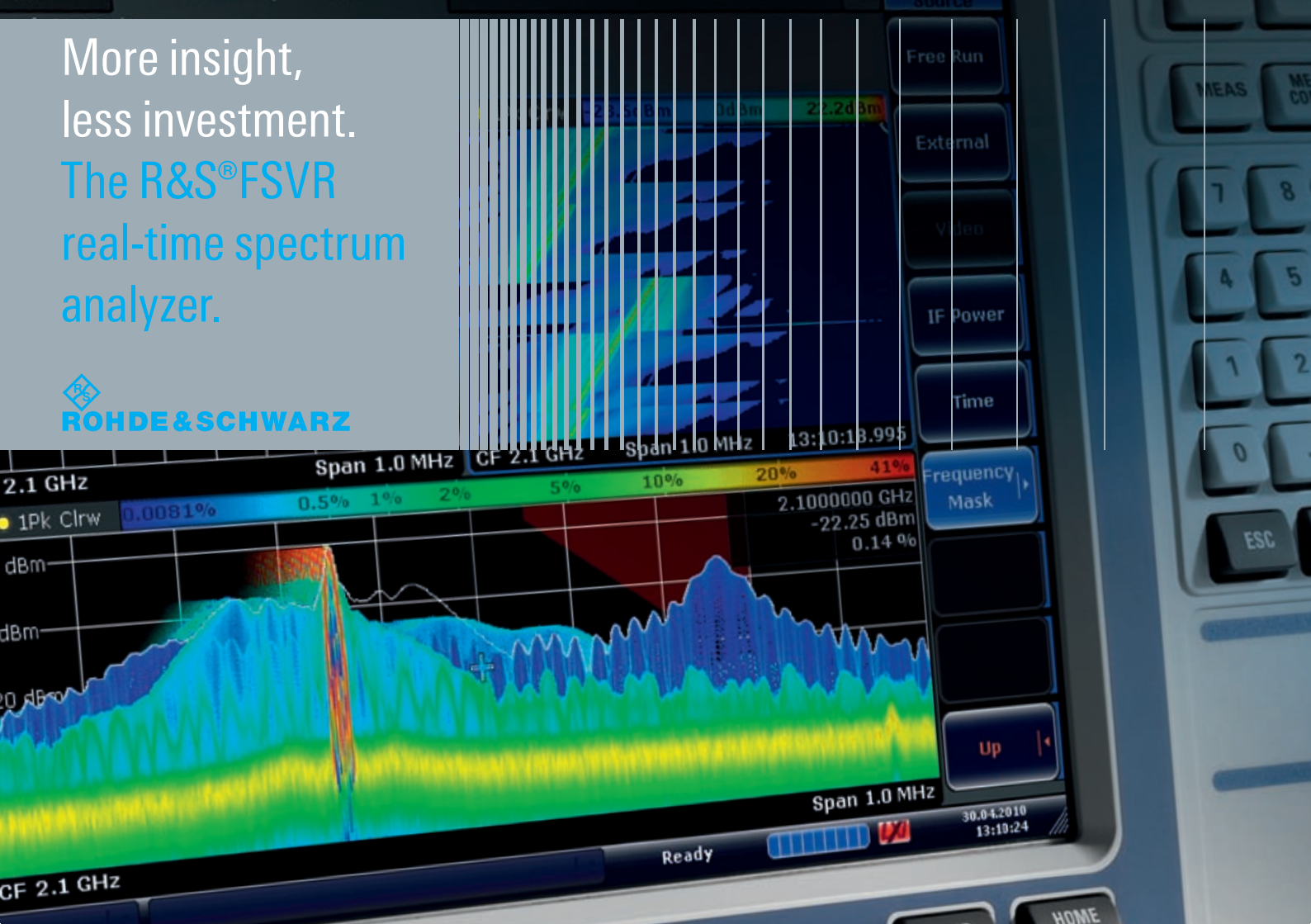
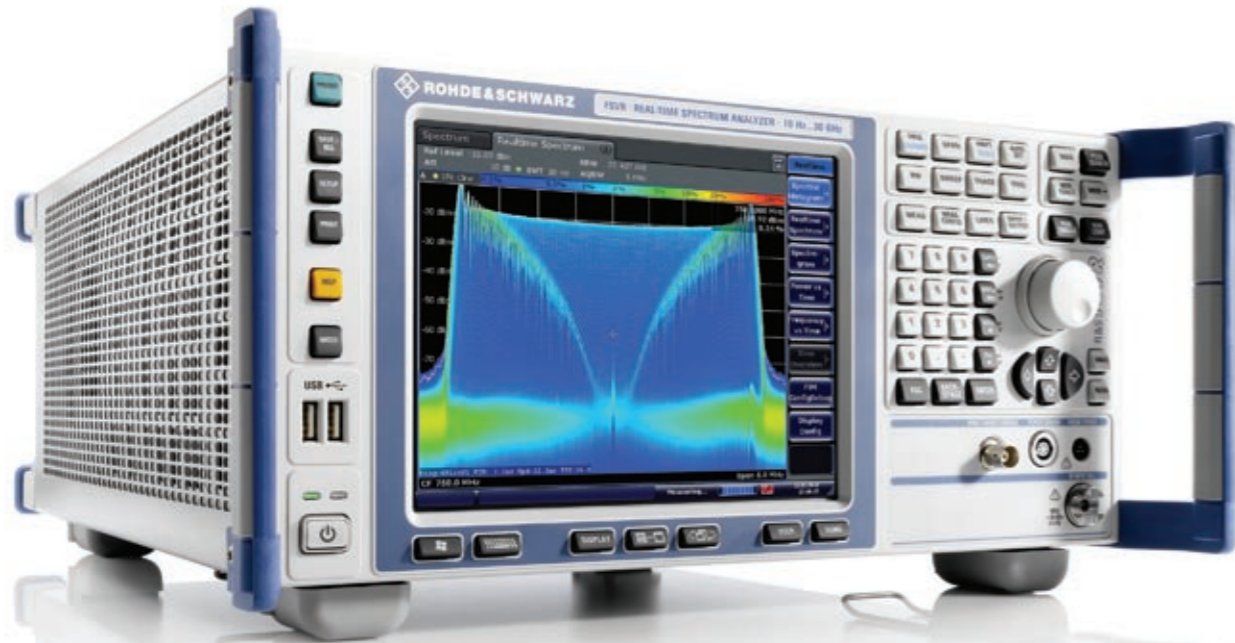


More insight,  
less investment.  
The R&S®FSVR  
real-time spectrum  
analyzer.



# See the spectrum from a new perspective – with the R&S®FSVR.

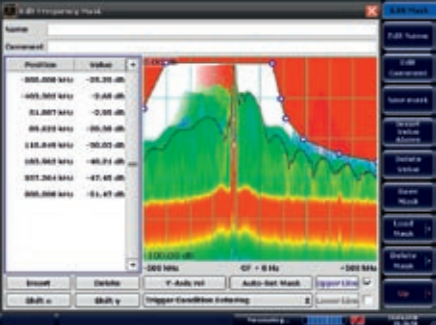


The new R&S®FSVR is unlike any other spectrum analyzer on the market. It is the first instrument that lets you view and evaluate the spectrum either in a conventional way or in real-time mode. In real-time mode, there are no time gaps during signal acquisition, and special display modes are used. In addition, the R&S®FSVR offers numerous functions for analyzing signals with digital or analog modulation. The result is a single all-around instrument suited to any test or measurement task: You can analyze stationary spectra and modulated signals with the sophisticated tools from classic signal and spectrum analysis, and you can evaluate brief, sporadic events and the dynamic behavior of signal sources using real-time analysis methods. This eliminates the need for expensive special solutions for subtasks.

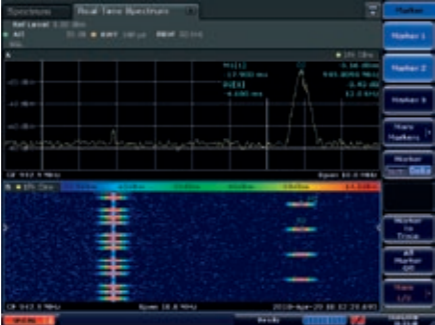
The R&S®FSVR is the first real-time spectrum analyzer with all-around capabilities.

# Nothing goes undetected.

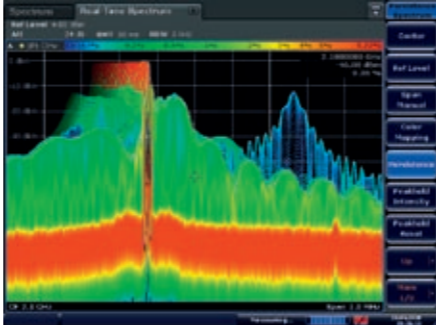
Tracking down the unknown with real-time analysis: Easy-to-generate frequency trigger masks enable you to quickly and easily detect the signal you are looking for.



The real-time spectrogram provides a waterfall diagram (lower half of screen) for gaining an overview of the spectrum versus time. In this diagram, you can mark individual events and examine them in detail in the upper half of the screen.



The persistence mode captures every event for a configurable period of time and color-codes the spectral components depending on how frequently they occur.

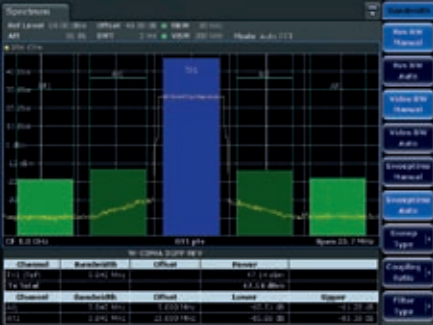


Due to their operating principle, conventional spectrum analyzers only use a short-term section of the input signal to display the spectrum. Under such conditions, brief changes in the signal – which can nevertheless be relevant to the system – are often overlooked, or they are not reliably detected. The R&S®FSVR's real-time spectrum function makes these changes visible. It gaplessly acquires the input signal within an analysis window that can be as wide as 40 MHz and uses that information to calculate 250 000 spectra per second, which are then combined to provide meaningful displays. This enables you to capture even the briefest events in the monitored frequency range. And for the first time in an instrument of this kind, this can be done up to an upper frequency limit of 30 GHz (or, with external mixers, even up to 110 GHz). From troubleshooting to the analysis of transient response and the monitoring of frequency-agile radio systems, real-time analysis provides you with completely new insights into your systems' behavior.

## The R&S®FSVR enables you to retrieve a maximum of information from any spectrum.

# Up to any test and measurement challenge.

The R&S®FSVR's feature set covers every need. Numerous functions are available for analyzing digital radio systems, for example standard-specific channel definitions for adjacent-channel power (ACP) measurements ...



... or general vector signal analysis for all common modulation formats.

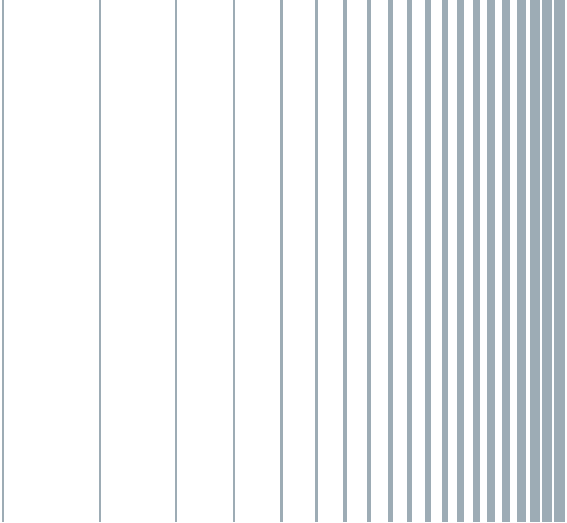


The touch screen renders external control elements unnecessary and provides direct access to the instrument's many functions.



Besides real-time functionality, the R&S®FSVR offers you all the characteristics and T&M capabilities of the advanced R&S®FSV signal and spectrum analyzer. This means that you can benefit from the fastest and most accurate spectrum analyzer available on the market. And you also have access to a comprehensive range of software options – for example, for phase noise measurements, for general vector signal analysis or for diverse mobile radio standards. In the sweep mode, you enjoy the familiar degree of freedom in selecting measurement parameters such as span or resolution bandwidth. As a result, you can optimally adapt the R&S®FSVR to the T&M task at hand. The R&S®FSVR also offers all the convenience features of the R&S®FSV, such as the touch screen and the easy retrofitting of hardware options.

## The R&S®FSVR offers the right tool for any test and measurement task.



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