



EMI PAK – EMI diagnosis easier than ever before

For precompliance detection of EMI sources

The earlier EMC precautions are taken in development the better as costs for possible redesign can be kept to a minimum. EMI PAKs from Rohde&Schwarz help you with the EMI diagnosis of electronic circuits and devices during development. They are complete solutions allowing the early detection and elimination of EMI sources.

Depending on the field of application, you may choose between four different packages. EMI PAK S and EMI PAK L comprise all required components for measuring conducted emission in the frequency range from 9 kHz to 30 MHz (including a CISPR line impedance stabilization network). The additional broadband antennas of EMI PAKs M and XL permit fast measurements of radiated RFI over an extremely wide frequency range from 30 MHz to 1 GHz using **one** antenna only. This means that no

time is wasted on switching between different antennas. The BiLog antenna contained in EMI PAK XL offers a better antenna factor and thus a wider dynamic range thanks to the built-in matching network. The two magnetic field probes contained in all the packages make for reliable and easy detection of critical in-circuit points.

Spectrum Analyzer R3131 (part of EMI PAK S and M)

Spectrum Analyzer R3131 from Advantest offers a unique price/performance ratio in its class. The synthesizer of high frequency stability covers the frequency range from 9 kHz to 3 GHz.

Simple operation via softkeys as well as additional measurement functions started at a keystroke make complex measurement tasks a child's play.

The analyzer is remotely controlled via the IEC/IEEE bus with the Windows™ software contained in EMI PAK. The analyzer offers all necessary EMI measurement functions such as quasi-peak detector and CISPR bandwidths of 9 kHz and 120 kHz.

Spectrum Analyzer R3132 from Advantest: analyzer with colour display plus higher sensitivity and accuracy

Spectrum Analyzer R3132 (part of EMI PAK L and XL)

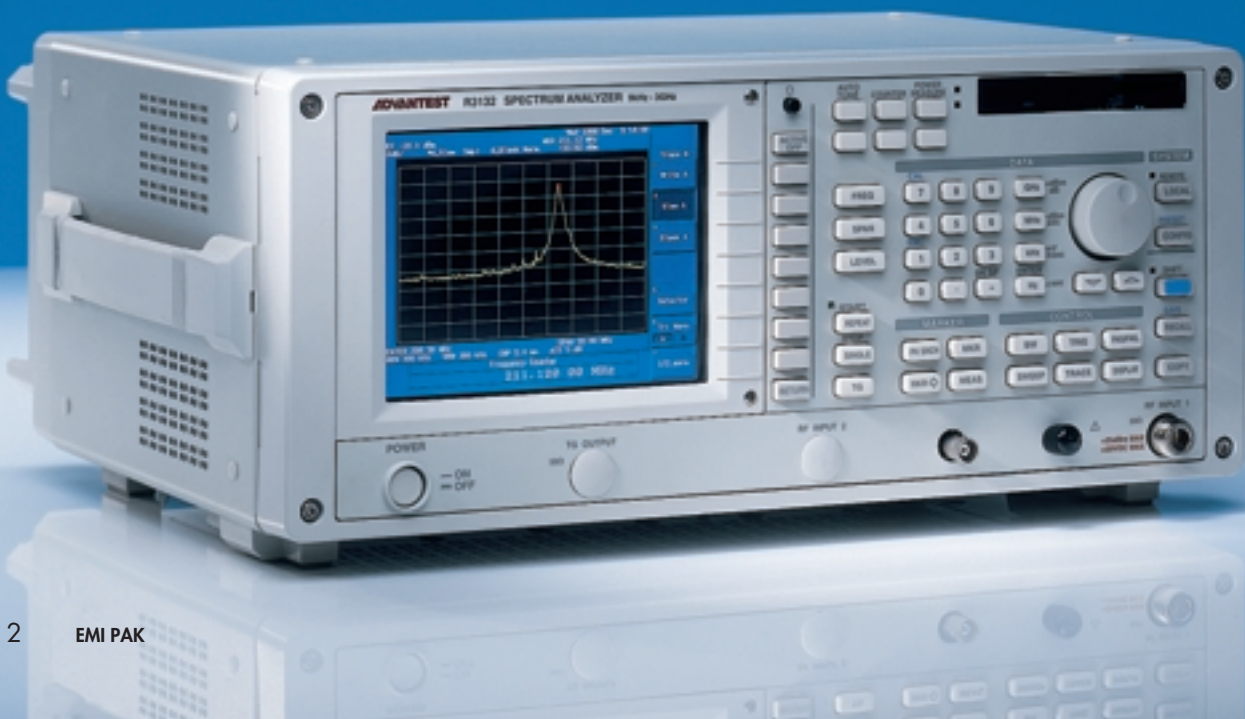
Spectrum Analyzer R3132 from Advantest is the "big brother" of R3131. R3132, too, covers the frequency range from 9 kHz to 3 GHz. In comparison with R3131, it offers a higher sensitivity and accuracy and also has a TFT colour display. Other parameters such as measure-

ment speed and dynamic range are also superior.

The analyzer is remotely controlled via the IEC/IEEE bus with the Windows™ software contained in EMI PAK. The analyzer offers all necessary EMI measurement functions such as quasi-peak detector and CISPR bandwidths of 9 kHz and 120 kHz.



Spectrum Analyzer R3131 from Advantest: entry-level model offering unique price/performance ratio



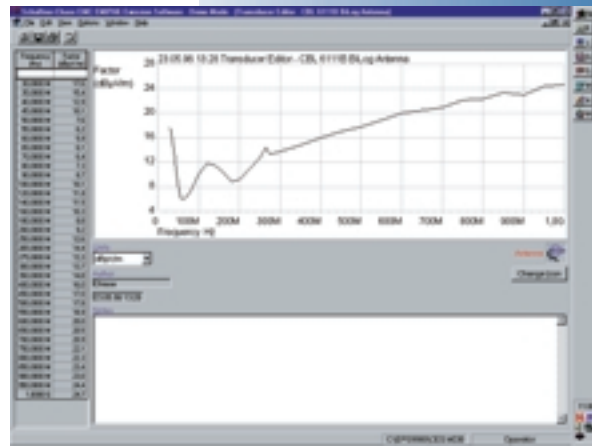
Windows™ software

The convenient Windows™ software which is part of the package supplied controls the analyzer. Predefined test routines set the spectrum analyzer and thus lead to fast measurement results.

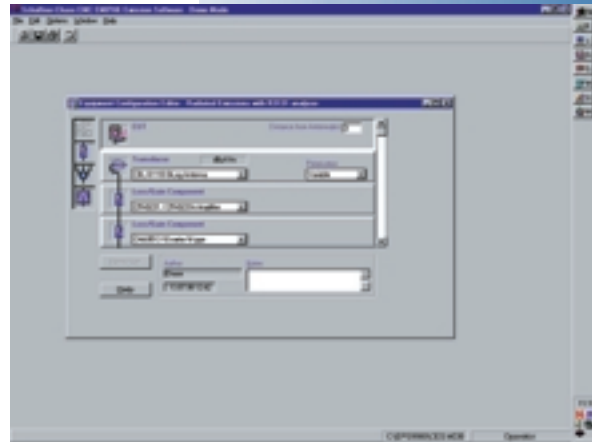
Test routines can also be defined by the user and adapted to meet particular requirements. The test setup is assembled from a library of components such as antennas, spectrum analyzers, cables etc. A test sequence is then chosen according to the EMI standard or an individual test routine is defined. In addition to the test trace, a list of all measured values and a table of all the values exceeding the limits are also provided.

The measurement results can be stored or output on a printer. Trace comparison immediately shows up deviations in on-going series production. Moreover, Windows™ offers all the options for result processing.

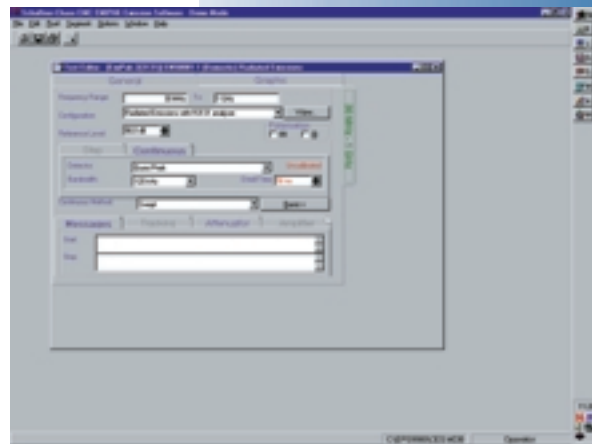
Convenient input editor for antenna correction factors



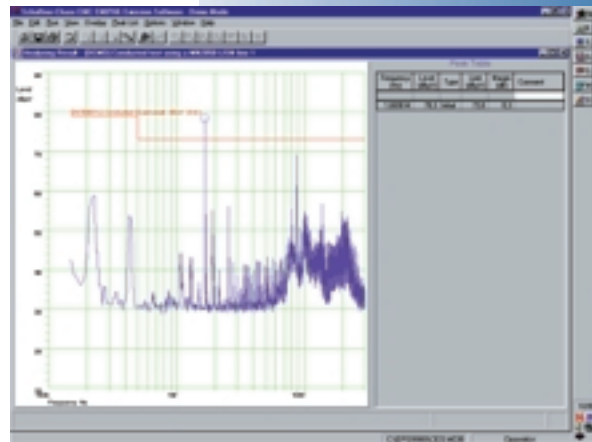
Easy test setup definition by putting together icons



Editor for defining test parameters



Measurement result with a table of all values exceeding the limit line (peak table)



Basic configuration (part of all EMI PAKs)



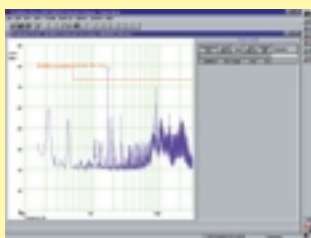
- Line impedance stabilization network 10 A with integrated pulse limiter (9 kHz to 30 MHz)



- Two magnetic field probes (9 kHz to 30 MHz, 30 MHz to 1 GHz)



- Preamplifier (9 kHz to 1 GHz)



- Emission test software (Windows™) and documentation

Optional for all EMI PAKs (not part of packages):

National Instruments GPIB card,
IEC/IEEE-bus cable

EMI PAK S

Basic configuration

+ **Spectrum Analyzer R3131**
from Advantest

(9 kHz to 3 GHz)

Inexpensive entry-level model for measuring conducted emission.



EMI PAK M

Basic configuration

+ **Spectrum Analyzer R3131** from
Advantest (9 kHz to 3 GHz)

+ **Antenna UPA6190B**

with tripod and cable

(30 MHz to 1 GHz)

Like EMI PAK S, an extra antenna for measuring radiated emission.



EMI PAK L

Basic configuration

+ **Spectrum Analyzer R3132**
from Advantest

(9 kHz to 3 GHz)

Like EMI PAK S, but higher analyzer accuracy and wider dynamic range.



EMI PAK XL

Basic configuration

+ **Spectrum Analyzer R3132** from
Advantest (9 kHz to 3 GHz)

+ **Antenna CBL6111**

with tripod and cable

Like EMI PAK L, extra BiLog antenna for measuring radiated emission; higher dynamic range.



Certified Quality System
ISO 9001
DQS REG. NO 1954-04



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