

EMI Software R&S ESxS-K1

User-friendly EMI software under Windows

- Works with all R&S ESS, R&S ESHS, R&S ESVS and R&S ESCS 30 test receivers
- Full on-screen setup entry and storage to disk, including limit lines and transducer factors
- Colour graphic display of scan data, with automatic data reduction
- Marker functions, including Marker to Peak and Tune Receiver to Marker Frequency
- Automated Peak Search function with user-definable acceptance margin and subranges
- Peak List Edit function for automatic or semi-automatic measurements
- Find Worst Case function for finding max hold level
- Report generation compatible with R&S ESxS receiver family using any printer supported by Windows

For Windows 95, 98, ME, NT, 2000 incl. support for S-LINE 700/1000 TEM cell measurements



Setup definition

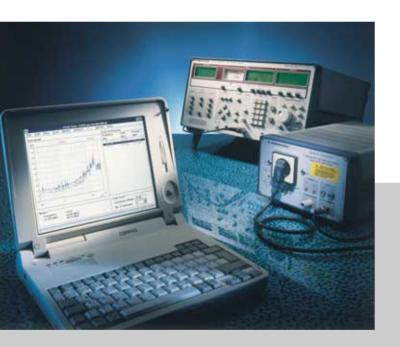
- Define any number of limit lines each with up to 50 points and store to disk
- Internal database including 60 standard limit lines and 69 transducer factors
- Define any number of receiver setups and store to disk
- Define and store peak list for final measurement
- Download new setup to receiver
- Upload current receiver setup into PC and store to disk

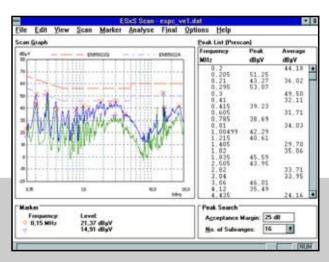
Scan mode and data capture

- Start, interrupt and end scan from PC keyboard
- Automatic data capture and colour graphic display
- Marker to Peak and Tune Receiver to Marker Frequency functions available during scan interrupt and after completed scan
- Resume interrupted scan with Continue at Interrupt or Continue at Receiver Frequency
- Zoom function, available after scan completion, expands frequency axis to display a part of the scan in greater detail, centered on the marker position

Peak search

- Automatic peak search with userselectable acceptance margin and number of subranges or peak values
- Modify peak list with Add Marker Frequency and Remove Frequency functions, or edit peak list direct from keyboard
- Peak list values are highlighted on the scan graph and simultaneously displayed in a table





R&S ESxS-K1 is especially designed to provide users of all R&S ESS, R&S ESHS, R&S ESVS and R&S ESCS 30 receivers with a cost-effective Windows based remotecontrol display and storage solution.

The main requirements of EMI emission measurements to civil standards are com-

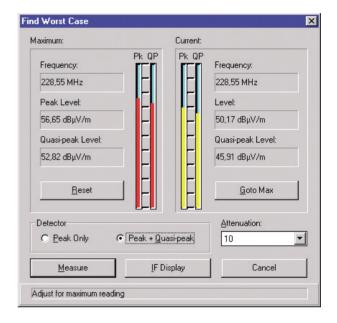
bined in one easy-to-use application: measurement setup and storage, scan data capture and display with automatic data reduction, peak search with acceptance margin and selection of subranges or number of peaks, final measurement with worst case selection, report generation and storage of measured data.

All the benefits of Windows are available including keyboard and mouse operation, full colour display, report printout on any printer supported by Windows, and dynamic data exchange (DDE). An online help explains all software functions so that a user manual is not required.

Final measurement

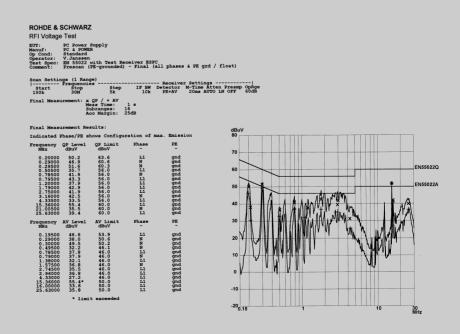
- Three options available:
 - Automatic measurement: cycles through peak list and automatically measures levels at each frequency using the detector(s) specified in the setup
 - Semi-automatic measurement: same as automatic measurement, but runs *Find Worst Case* function for each frequency
 - Manual measurement: operator selects frequencies from peak list and runs Find Worst Case function
- Find Worst Case function: on-screen level display shows current level and max hold level, is continuously updated while operator fine-tunes receiver, and adjusts EUT position and operation for worst case; press Measure button to record final value in results list
- Results added to peak list and indicated on scan graph
- Stores complete results to disk
- R&S S-LINE700 and R&S S-LINE1000 support:
 Results of emission measurements taken with compact Shielded TEM Cell R&S S-LINE700 or R&S S-LINE1000 are supported by automatic calculation routines that provide the field-strength values to be expected for OATS measurements





Report

- Receiver-compatible report generation
- Preview on screen
- Output to any printer supported by Windows
- Individual report fields may act as DDE link servers allowing realtime display of R&S ESxS-K1 result data in other Windows applications such as Winword and Excel



Ordering information

EMI Software R&S ESxS-K1 1082.9678.02

Hardware requirements

Runs on any IBM-compatible PC under Windows 95, 98, ME, NT or 2000. Requires an IEC/IEEE bus interface card for receiver control, such as R&S PS-B4 (model 04) or PCIIA, AT-GPIB from National Instruments.



Certified Environmental System

