

Miniport Receiver EB 200/Compact Receiver ESMC

Mini-receivers: remote control lends weight to network role

These two compact receivers for searching, detecting and displaying signals in the 10 kHz to 3 GHz range can be remote-controlled in all their functions and thus integrated – by optional software – into large networks, eg nationwide monitoring systems. To simplify entry into what can be a fairly complex application, Rohde & Schwarz is offering a version of the remote-control software that is reduced in its scope of functions and price.

Photo 43017/1



FIG 1
Favourably priced, compact Miniport Receiver EB200 can also be integrated into computer-controlled, stationary monitoring systems thanks to its remote-control interface

Miniport Receiver EB 200 (FIG 1) and Compact Receiver ESMC, these two extremely compact units meet all the requirements for searching, detect-

ing and displaying signals in the frequency range from 10 kHz to 3 GHz. Both receivers offer a fast RF spectrum overview: ESMC comes with an analog scan option and EB200 with its optional DIGI scan. These fast, standalone receivers for searching and monitoring not only feature many manual measurement modes such as frequency scan, memory scan or RF

spectrum. They can also document and store detected signals via their LAN interface and optional remote-control software, enabling their integration into complex, nationwide monitoring systems.

Rohde & Schwarz offers two different software packages for the remote control of blanket systems. RAMON, used in the military field, is for fast frequency detection and transfer to support monitoring receivers, while ARGUS is intended for civil applications, eg for authorities with frequency management tasks such as long-term monitoring of specific frequency bands. These comprehensive and powerful software packages are able to mesh numerous Rohde & Schwarz units such as antennas, direction finders and analyzers into nationwide monitoring systems and ensure convenient control and management.

To simplify entry into ARGUS, Rohde & Schwarz is offering ARGUS MON software – a version reduced in functionality and consequently price – for remote control of EB 200 or ESMC. This version, also available as demo software, allows remote control of all settings, measurement and scan functions of the two receivers and saving of measured data such as frequency, level, offset, data and time. This special ARGUS version is used to control only one EB200 or ESMC and costs a fraction of the complex system software. Extensive, special measurement modes such as intermodulation analysis, automatic or DF measurement mode are not contained.

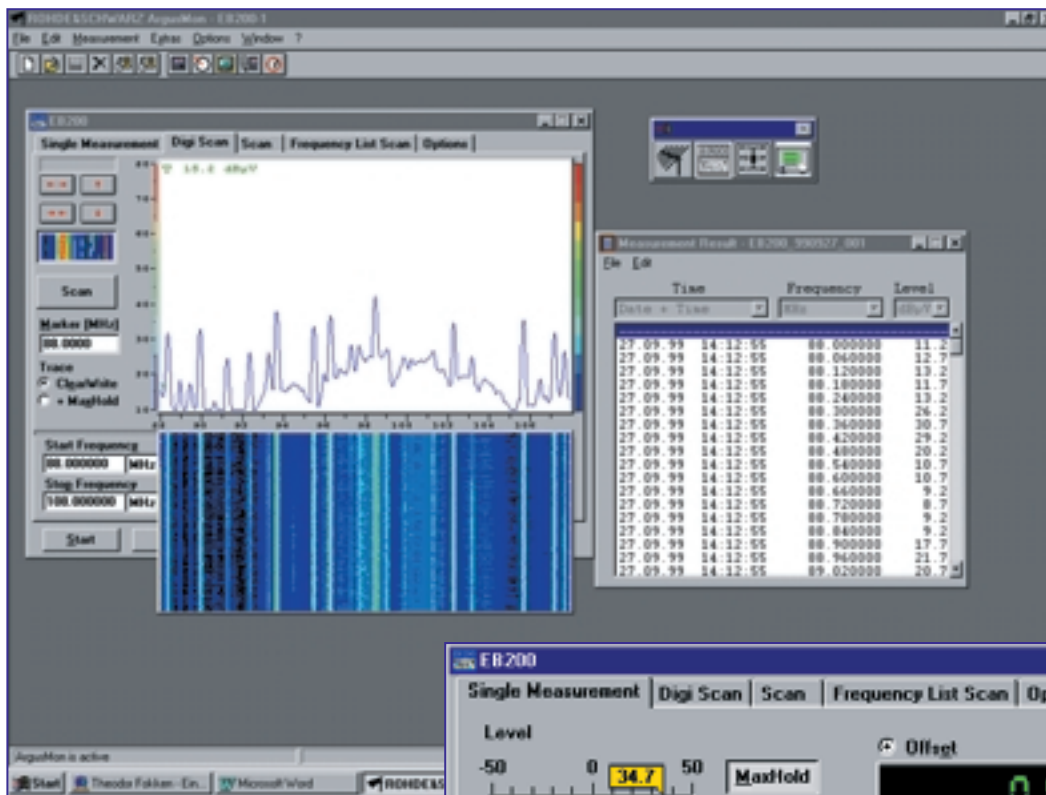


FIG 2 Complete spectrum recordings with date, time, frequency and level can be stored with the "Save" function. About 200 measurements per second can be performed via the LAN interface of EB200

FIG 3 Even single-frequency measurements can be stored and conveniently documented together with all receiver settings

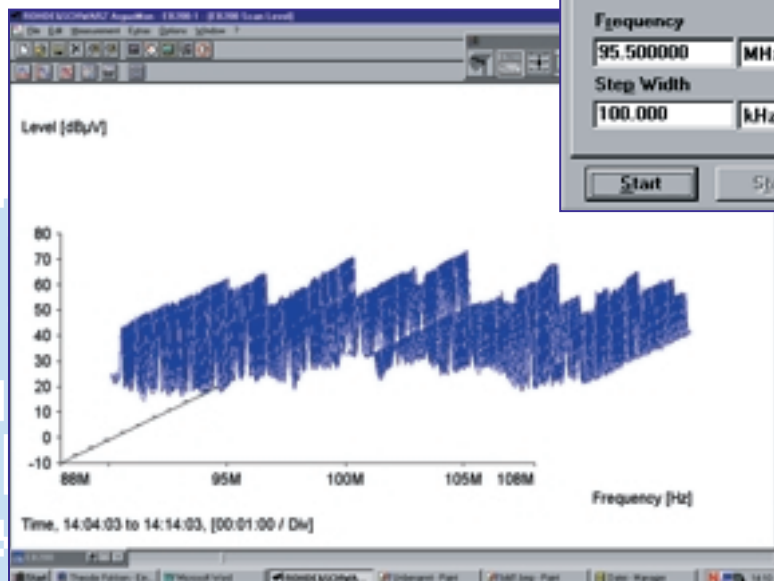


FIG 4 In the normal scan mode with stepwidth definition, EB200 displays the spectrum as Cartesian, 2-D or 3-D waterfall diagram – with and without offset

Although the receivers offer a whole variety of functions, FIGs 2 to 4 show that their operation is still user-friendly and clear. The attractively priced basic ARGUS MON software can be extended for use in systems of any size.

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