Product Demo

ESW EMC Receiver

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Bill Wangard is the EMI Receiver and Radio monitoring Product Manager at Rohde & Schwarz. He has 20+ years of RF and Receiver experience at Motorola and Rohde & Schwarz. Bill authored numerous patents at Motorola.
EMI Test Receiver
Compliance testing according to CISPR- and Mil-Standards
EMI Receiver Portfolio

ESL 3/13/6/16

ESRP 3/7

ESR 3/7/26

ESW 8/26/44

Price

Performance
Features of ESW

The ESW becomes unique through the combination of the following features in a single instrument:

- EMI compliance measurements faster and more reliable than ever
  - Highest dynamic range and level accuracy in an EMI Test Receiver
  - Configurable pre-selection with pre-amplifiers and notch filters
  - With FFT-based high speed time domain scan standard-built-in

- Real-time analysis
  - 80MHz BW for real-time spectrum analysis and spectrogram view for diagnostics and debugging measures

- Multi-View all measurements at a glance
  - With multiview windows on one screen and advanced parameter coupling
Features of ESW
RF Performance

- Configurable Pre-selection
- High 1-dB-compression point
- High sensitivity with a built-in preamp of 20dB gain
- Or with an 30-dB-preamp (LNA - option) in front of preselection
- Built-in pre-selection filters optimized to the requirements of a speedy Time-Domain-Scan
- Special filters such as 150 kHz HP, 2 MHz HP and Notchfilters for ISM bands suppression
Features of ESW
Automatic Test Automation Sequencing

- Overview Block Diagram
- Scan table
  - Customizable Frequency Ranges
  - Dwell Time
  - RBWs
- Peak Search
  - Record to Peak List
  - Choose Limit Line
- Final Measurement
  - Interactive Mode
- Final Results
Creating Limit Lines

<table>
<thead>
<tr>
<th>Freq (MHz)</th>
<th>Limit (dBuV)</th>
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<tbody>
<tr>
<td>80</td>
<td>13.0</td>
</tr>
<tr>
<td>85</td>
<td>13.0</td>
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<tr>
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<td>17.0</td>
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<tr>
<td>100</td>
<td>17.0</td>
</tr>
<tr>
<td>110</td>
<td>35.0</td>
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</table>
Features of ESW
Optional Real-time Analysis

I Optional 80MHz Real-Time Analysis
  I Seemlessly monitor disturbance spectra and quickly evaluate interference suppression measures

I Real-time diagnostic and debugging tools
  I Persistence Display
  I Spectrogram Display
  I Frequency Mask Trigger
  I IF analysis
  I Detect complex signals (covered/hidden signals)
Features of ESW
Customizable Multi-View
Features of ESW
Enhanced Parameter Coupling
Features of ESW
4 channel click-rate analysis

4-channel-click-rate analysis installed directly on the instrument
Features of ESW

Automatic Test Reporting