



R&S®ESL EMI RECEIVER

Compact, cost-effective measuring receiver

The perfect choice for

EMI measurements & debugging of commercial products

EMC labs

Standard RF spectrum measurements

Development & mobile users



Compact, cost-effective measuring receiver

The R&S®ESL EMI test receiver combines two instruments in one, measuring EMC disturbances in line with commercial standards and also serving as a full-featured spectrum analyzer for diverse lab applications. The R&S®ESL is designed to meet the needs of cost-conscious users who want to perform diagnostic and precompliance EMI measurements up to 3 GHz or 6 GHz.

Key specifications	
Frequency range	up to 50 GHz
Measurement range	-70 dBm to +23 dBm
Amplitude accuracy	0.5 dB
1 dB compression	+5 dBm
RF input pulse-resistant	up to 10 mWs
Displayed average noise level with preamplifier	<-152 dBm (1 Hz)
Resolution bandwidths	10 Hz to 10 MHz (-3 dB), 200 Hz, 9 kHz, 120 kHz (-6 dB), 1 MHz (impulse)

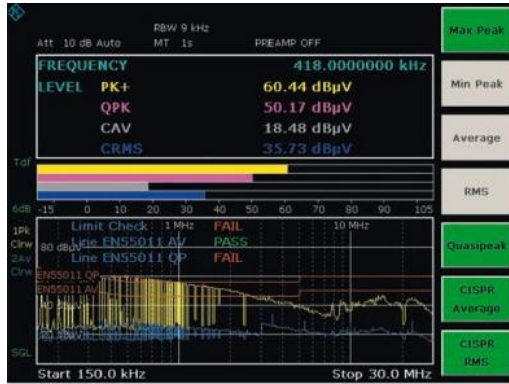
Your benefit	Features
EMI measurements	<ul style="list-style-type: none"> ▶ Very good RF characteristics ▶ Frequency range covering the most important EMI measurements in commercial product standards ▶ All CISPR weighting detectors included ▶ All major functions of an advanced EMI test receiver, including fully automated EMI test sequences
Compact and mobile	<ul style="list-style-type: none"> ▶ Rugged case as standard ▶ Compact size ▶ Lightweight ▶ Optional battery operation for installation, maintenance and on-site applications
Standard RF spectrum measurements	<ul style="list-style-type: none"> ▶ Complete functionality of an R&S®FSL3/R&S®FSL6 spectrum analyzer included



For more information:

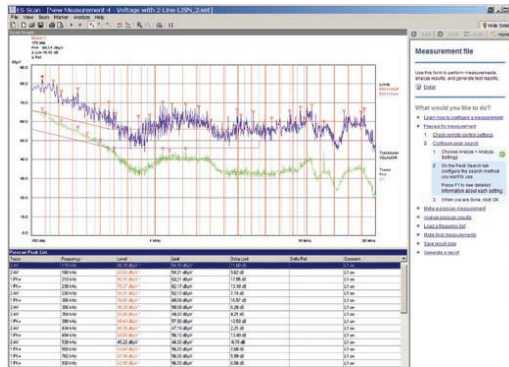
www.rohde-schwarz.com/catalog/ESL

Test receiver and spectrum analyzer function



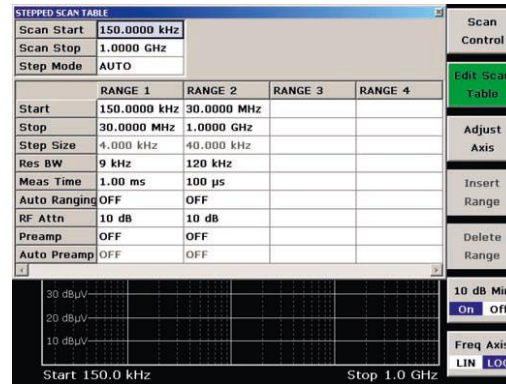
Menu for selecting weighting detectors. Values produced by a maximum of four different detectors are simultaneously displayed, both numerically and as an analog bargraph

Diagnostic measurements made easy with ES-SCAN



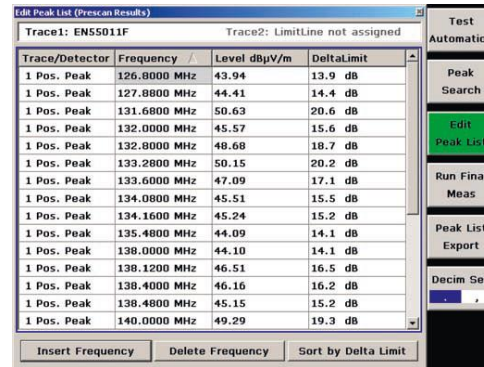
Preview measurement (Pk and Avg) with determination of the local maxima (here, 25 subranges) for subsequent final measurement (QP and C-Avg).

Individual receiver parameters set for subranges



In receiver mode, the R&S®ESL is tuned in fixed frequency steps in accordance with the settings in the SCAN table. The SCAN table can be programmed for a maximum of ten frequency subranges with independently selectable parameters.

Evaluation of critical disturbance frequencies list



This saves valuable test time and is a great help for anyone who does not make such measurements on a regular basis.

Ordering information

Description	Frequency range	Test receiver
Base unit	9 kHz to 3 GHz	R&S®ESL3 (1300.5001.03)
Tracking generator	9 kHz to 3 GHz	R&S®ESL3 (1300.5001.13)
Base unit	9 kHz to 6 GHz	R&S®ESL6 (1300.5001.06)
Tracking generator	9 kHz to 6 GHz	R&S®ESL6 (1300.5001.16)

Included: All models include power cable, quick start guide and CD-ROM (with operating manual and service manual) and three-year warranty

Popular accessories

Description	Item
OCXO reference frequency	R&S®FSL-B4
Additional interfaces (video out, IF out, noise source control, AUX port, R&S®NRP-Zxx power sensor)	R&S®FSL-B5
Gated sweep	R&S®FSL-B8
AM/FM/ϕM measurement demodulator	R&S®FSL-K7
Power sensor support (requires R&S®FSL-B5 or R&S®NRP-Z3/-Z4)	R&S®FSL-K9