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

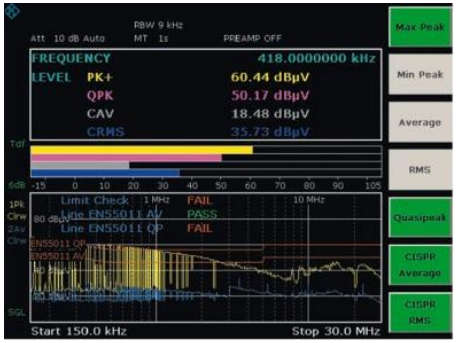
The R&S®ESL EMI test receiver combines two instruments in one, measuring EMC disturbances in line with commercial standards and also serving as a full-featured spectrum analyzer for diverse lab applications. The R&S®ESL is designed to meet the needs of cost-conscious users who want to perform diagnostic 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	▮ 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	▮ Rugged case as standard ▮ Compact size ▮ Lightweight ▮ Optional battery operation for installation, maintenance and on-site applications
Standard RF spectrum measurements	Complete functionality of an R&S®FSL3/R&S®FSL6 spectrum analyzer included

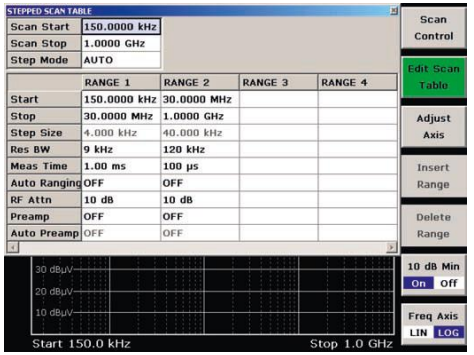
▷ For more information, visit www.rohde-schwarz.com/product/ESL

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.

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.

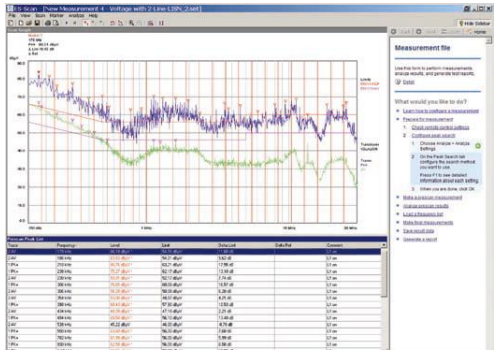
Ordering information

Choose your model

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

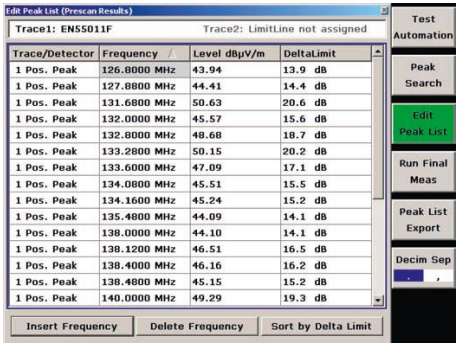
Included: All models include power cable, quick start guide and CD-ROM (with operating manual and service manual) and three-year warranty

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).

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.

Popular options/accessories

Description	Type
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

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