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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ESVS10 20MHz-1GHz EMI Test Receiver

Rohde & Schwarz ESVS10 EMI Test Receiver 20 MHz to 1 GHz The R&S ESVS10 is a triple-conversion commercial EMI test receiver covering 20 MHz to 1000 MHz. It is the VHF/UHF counterpart to ESHS10 (9 kHz to 30 MHz). A four-line LCD and 8-digit frequency display support manual and automatic CISPR work. Parallel average, peak, and quasi-peak detectors, 10 kHz / 120 kHz IF bandwidths, and a 10 dB switchable preamplifier meet CISPR 16, VDE 0876, and ANSI C63.2. The enhanced sibling ESVS30 adds a screen, floppy drive, tracking generator, and IF analyzer. The R&S ESVS10 is a triple-conversion commercial EMI test receiver covering 20 MHz to 1000 MHz. It is the VHF/UHF counterpart to ESHS10 (9 kHz to 30 MHz). A four-line LCD and 8-digit frequency display support manual and automatic CISPR work. Parallel average, peak, and quasi-peak detectors, 10 kHz / 120 kHz IF bandwidths, and a 10 dB switchable preamplifier meet CISPR 16, VDE 0876, and ANSI C63.2. The enhanced sibling ESVS30 adds a screen, floppy drive, tracking generator, and IF analyzer.



MODEL

Rohde & Schwarz ESVS10

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ESVS10

LISTING

<https://aumictechlabs.com/products/esvs10-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ESVS10 is a benchtop EMI test receiver designed for conducted and radiated emissions compliance testing across 20 MHz to 1 GHz. Built-in spectrum analyzer

functionality enables real-time signal analysis, while automated test routines accelerate verification against CISPR, EN, and FCC standards. The 50 Ohm input impedance accommodates standard test configurations for product development, pre-compliance assessment, and laboratory characterization workflows.

Technical Specifications

Model: ESVS10 **Manufacturer:** Rohde & Schwarz **Frequency Range:** 20 MHz to 1 GHz **Input Impedance:** 50 Ohm **Form Factor:** Benchtop instrument

Key Features

- Built-in spectrum analyzer with real-time analysis capability
- Automated test routines for standards compliance verification
- Dual measurement modes: conducted and radiated emissions
- Support for CISPR, EN, and FCC regulatory frameworks

Typical Applications

- Emissions compliance testing per international standards
- Pre-compliance emissions assessment during product development
- Laboratory-based signal characterization and analysis
- Regulatory qualification and certification support

Compatibility & Integration

- 50 Ohm input impedance for direct integration with standard test antennas and sensors
- Suitable for compliance labs and system integration environments requiring automated emissions measurement

Features & description

From manufacturer datasheet

Features

- Typical measurement error less than 0.7 dB; typical noise figure 7 dB with preamp (12 dB without) • RF attenuator 0 to 120 dB in 10 dB steps, high pulse-load capacity • Automatic level calibration and transducer-factor correction • Up to 5000 values/s on the IEC bus (400/s including frequency change in-band) • Internal 12 V / 10 Ah battery, about 2.5 h

Applications

- Commercial EMI to EN 55011–55022, FCC, VCCI, VDE 0871–0879 • Field-strength measurements with coded test antennas • Manual, semi-automatic (peak preview then QP), and IEC-bus automatic tests • Battery or AC operation in the lab or on site

ESVS10 Characteristics / Specifications

PARAMETER	VALUE
Model	ESVS10
Manufacturer	Rohde & Schwarz
Instrument Type	EMI test receiver
Alias	ESVS 10; R&S ESVS10
Frequency Range	20 MHz to 1000 MHz
Frequency Resolution	100 Hz
Frequency Steps	100 Hz, 100 kHz, or user step
Level Range	minus 17 dB μ V to +137 dB μ V (also listed minus 14 dBmV to +137 dB μ V)
Level Resolution	0.1 dB
Typical Measuring Error	less than 0.7 dB
Typical Noise Figure with Preamp	7 dB
Typical Noise Figure without Preamp	12 dB
RF Input	N, 50 ohm
VSWR att 10 dB	less than 1.2
VSWR att 0 dB	less than 2
Preamplifier	10 dB, between preselector and 1st mixer
IF Bandwidths	10 kHz and 120 kHz
Detectors	average, peak, quasi peak (parallel)
Operating Ranges	30 dB and 60 dB
Measurement Times	1 ms to 100 s (1/2/5 steps)
Display	8 digit LCD frequency; 4 line LCD (ESVS10)
Max Sinewave Input	137 dB μ V (att greater than or equal to 10 dB)
IF 74.7 MHz Output	BNC, 50 ohm (ESVS10)
Video Output	BNC envelope demodulator
Antenna Supply	12-contact Tuchel

PARAMETER	VALUE
Mains	100/120/220/240 V plus/minus 10%, 47 to 440 Hz
Power Consumption	60 VA class
Internal Battery	12 V, 10 Ah, about 2.5 h
External Battery	11 V to 33 V
Dimensions	435 × 236 × 363 mm class
Remote Interface	IEC IEEE bus
Standards	CISPR 16, VDE 0876, ANSI C63.2
Sibling ESVS	screen, floppy, tracking generator, IF analyzer Notes Specs from the R&S ESHS10/ESVS10/ESS EMI test receiver data sheet. This file is the LCD ESVS10, not ESVS30. Confirm battery pack, antenna coder cable, and firmware.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Measurement Times	1 ms to 100 s (1/2/5 steps)
Display	8 digit LCD frequency; 4 line LCD (ESVS10)
Max Sinewave Input	137 dBµV (att greater than or equal to 10 dB)
Max Pulse Voltage 10 µs: 700 V class (ESHS/ESVS family)	
Specifications	

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Sibling ESVS30	screen, floppy, tracking generator, IF analyzer

Notes

Specs from the R&S ESHS10/ESVS10/ESS EMI test receiver data sheet. This file is the LCD ESVS10, not ESVS30. Confirm battery pack, antenna coder cable, and firmware.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.