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Data Sheet
August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ESVS30 EMI Test Receiver, 20MHz to 1GHz

Rohde & Schwarz ESVS30 EMI Test Receiver 20 MHz to 1 GHz The R&S ESVS30 is the enhanced-feature 20 MHz to 1000 MHz member of the ESVS commercial EMI receiver family. RF characteristics match ESVS10: triple-conversion heterodyne, 100 Hz frequency resolution, 10 kHz / 120 kHz IF bandwidths, 10 dB switchable preamplifier, and ten integrated preselectors. ESVS30 addsalow-leakage screen, 3.5 inch floppy-disk drive, tracking generator (20 MHz to 1000 MHz), and IF analyzer for test-house work. Detectors are average, peak, and quasi-peak to CISPR 16 and VDE 0876. The R&S ESVS30 is the enhanced-feature 20 MHz to 1000 MHz member of the ESVS commercial EMI receiver family. RF characteristics match ESVS10: triple-conversion heterodyne, 100 Hz frequency resolution, 10 kHz / 120 kHz IF bandwidths, 10 dB switchable preamplifier, and ten integrated preselectors. ESVS30 addsalow-leakage screen, 3.5 inch floppy-disk drive, tracking generator (20 MHz to 1000 MHz), and IF analyzer for test-house work. Detectors are average, peak, and quasi-peak to CISPR 16 and VDE 0876. Commercial EMI to EN 55011 to 55022, FCC, VCCI, VDE

MODEL Rohde & Schwarz ESVS30	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU ESVS30	LISTING https://aumictechlabs.com/products/esvs30-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ESVS30 is a triple-conversion heterodyne EMI test receiver covering 20 MHz to 1 GHz, purpose-built for compliance measurements across CISPR, EN, ETS, FCC, ANSI C63.4, VCCI, VDE, and military standards. Manual operation delivers high frequency resolution with accurate level indication via average and quasi-peak detection. Built-in intelligence reduces measurement time while maintaining outstanding precision, overload immunity, dynamic range, and selectivity.Technical Specifications Frequency Coverage 20 MHz to 1 GHz (1000 MHz) Receiver Architecture Triple-conversion heterodyne design Manual operation with high frequency resolution Average and quasi-peak detection modes Bandwidth Options CISPR bandwidths: 200 Hz, 9 kHz, 120 kHz, 1 MHz IF bandwidth: 200 Hz / 10 kHz IF analysis resolution bandwidths: 1.3 kHz and 10 kHz Preselector & Preamplifier Integrated preselector with ten selectable preselectors Selectable 10 dB preamplifier Tracking Generator Standard configuration: 20 MHz to 1000 MHz Enables two-port measurements and cable loss determinationKey Features IF Spectrum Analysis Built-in IF spectrum analysis for visual interference inspection Resolution options: 1 kHz, 3 kHz, or 10 kHz Display range: 10 kHz to 10 MHz Automatic execution during level measurement Automated Measurement Routines Frequency range and list scanning up to 400 frequencies Direct CISPR measurement range selection with automatic bandwidth, step width, and timing Automatic overload detection and level calibration Built-in self-test function Semiautomatic RFI power and field strength measurement Fast prescan followed by final measurement at critical frequencies Data reduction optimization Data Storage 3.5" floppy disk drive for measurement archivingTypical Applications Commercial EMI compliance testing per CISPR, EN, and ETSI standards FCC and VCCI regulatory measurements Military standard compliance verification up to 1 GHz Two-port network characterization and cable loss analysis Field strength and RFI power assessmentCompatibility & Integration Fully compliant with CISPR16-1 and VDE0876. Supports all major international commercial and military EMI standards within its frequency band.

ESVS30 Characteristics / Specifications

PARAMETER	VALUE
Model	ESVS30
Manufacturer	Rohde & Schwarz
Instrument Type	EMI test receiver
Alias	ESVS 30; R&S ESVS30
Frequency Range	20 MHz to 1000 MHz
Frequency Resolution	100 Hz
Frequency Steps	100 Hz, 100 kHz, or user step
Level Range	minus 17 dBuV to +137 dBuV
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
Preselectors	10 integrated
IF Bandwidths CISPR	200 Hz, 9 kHz, 120 kHz, 1 MHz
IF Bandwidths Receiver	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 ESVS	screen plus 3.5 inch floppy disk (versus 4 line LCD on ESVS10)
Tracking Generator	20 MHz to 1000 MHz standard
IF Analyzer Resolution	1, 3, or 10 kHz over 10 kHz to 10 MHz display (option)

PARAMETER	VALUE
Max Sinewave Input	137 dBuV (att greater than or equal to 10 dB)
Max Pulse Voltage 10 us	700 V class (ESHS/ESVS family)
Mains	100/120/220/240 V plus/minus 10 percent, 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, EN, ETS, FCC, VCCI
Sibling ESVS	LCD, no TG / IF analyzer / floppy as standard extras Notes Specs from the R&S ESHS/ESVS EMI test receiver data sheet family. RF tables are the shared ESVS row; the 30 suffix adds screen, floppy, tracking generator, and IF analyzer. Confirm those extras on the faceplate versus an ESVS10.
Attenuation	checks with the tracking generator

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.

characteristics match ESVS10: triple-conversion heterodyne, 100 Hz frequency resolution, 10 kHz / 120 kHz IF bandwidths, 10 dB switchable preamplifier, and ten integrated preselectors. ESVS30 addsalow-leakage screen, 3.5 inch floppy-disk drive, tracking generator (20 MHz to 1000 MHz), and IF analyzer for test-house work. Detectors are average, peak, and quasi-peak to CISPR 16 and VDE 0876.

Applications

Commercial EMI to EN 55011 to 55022, FCC, VCCI, VDE

Test-house and QA measurements on changing EUTs

Cable-loss, filter, and site-attenuation checks with the tracking generator

Manual spectrum monitoring via the IF analyzer

Field-strength work with coded antennas

Key Features

Same RF front end as ESVS10; extra UI, floppy, tracking, and IF-analyzer hardware

Automatic scan of ranges and lists up to 400 frequencies

Typical measurement error less than 0.7 dB class; typical noise figure 7 dB with preamp

CISPR bandwidths 200 Hz, 9 kHz, 120 kHz, 1 MHz

AC, internal 12 V battery, or external 11 to 33 V DC

Technical Specifications

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PARAMETER	VALUE
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Frequency Resolution	100 Hz

Specifications

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Level Range	minus 17 dBuV to +137 dBuV
Level Resolution	0.1 dB

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PARAMETER	VALUE
Preamplifier	10 dB, between preselector and 1st mixer
Preselectors	10 integrated
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Specifications

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IF Bandwidths Receiver	10 kHz and 120 kHz
Detectors	average, peak, quasi peak (parallel)
Operating Ranges	30 dB and 60 dB

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Measurement Times	1 ms to 100 s (1/2/5 steps)
Display ESVS30	screen plus 3.5 inch floppy disk (versus 4 line LCD on ESVS10)
Tracking Generator	20 MHz to 1000 MHz standard

Specifications

PARAMETER	VALUE
IF Analyzer Resolution	1, 3, or 10 kHz over 10 kHz to 10 MHz display (option)
Max Sinewave Input	137 dBuV (att greater than or equal to 10 dB)
Max Pulse Voltage 10 us	700 V class (ESHS/ESVS family)

Specifications

PARAMETER	VALUE
Mains	100/120/220/240 V plus/minus 10 percent, 47 to 440 Hz
Power Consumption	60 VA class
Internal Battery	12 V, 10 Ah, about 2.5 h

Specifications

PARAMETER	VALUE
External Battery	11 V to 33 V
Dimensions	435 x 236 x 363 mm class
Remote Interface	IEC IEEE bus

Standards: CISPR 16, VDE 0876, ANSI C63.2, EN, ETS, FCC, VCCI

Sibling ESVS10: LCD, no TG / IF analyzer / floppy as standard extras

Notes

Specs from the R&S ESHS/ESVS EMI test receiver data sheet family. RF tables are the shared ESVS row; the 30 suffix adds screen, floppy, tracking generator, and IF analyzer. Confirm those extras on the faceplate versus an ESVS10.

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

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