

ROHDE & SCHWARZ

SFQ

The Rohde & Schwarz SFQ is a high-precision, multi-standard TV Test Transmitter designed for testing broadcast receivers, modulators, and transmission systems. Its modular architecture supports all major digital and analog television standards, making it an industry benchmark for research, development, quality assurance, and production of broadcasting equipment.

SPECIFICATIONS

Physical

Dimensions (W×H×D)	435 mm × 192 mm × 460 mm mm
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RF Output Characteristics

RF Output Frequency Range	0.3 MHz to 3.3 GHz
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Digital Modulation & Standards

DVB-S Modulation Schemes	QPSK
DVB-S Roll-Off Factor	0.35
DVB-C QAM Constellations	16QAM, 32QAM, 64QAM, 128QAM, 256QAM
DVB-T Modulation Types	QPSK, 16QAM, 64QAM
DVB-T Guard Intervals	1/4, 1/8, 1/16, 1/32
DVB-T Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T Transmission Modes	2k, 8k

Impairment and Noise Simulation

Noise Generator Option	SFQ-B1 (AWGN)
Fading Simulator Option	SFQ-B2
Number of Fading Paths	6 paths

Modulation

ISDB-T Number of Segments (Option SFQ-B27)	13
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Noise Generator

Noise Type (Option SFQ-B3)	Additive White Gaussian Noise (AWGN)
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TECHNOLOGY

Multi-standard TV Broadcast Test Transmitter

APPLICATIONS

Broadcast receiver validation, modulator testing, and digital/analog TV research & development

