ROHDE & SCHWARZ

FSEM30

The Rohde & Schwarz FSEM30 is a high-performance spectrum analyzer from the FSE Series, designed for ultra-wide dynamic range measurements and universal analysis of analog and digital modulated signals. Operating from 20 Hz to 26.5 GHz, this instrument is widely utilized in aerospace, defense, and telecommunications testing.

SPECIFICATIONS

General

Display	24 cm (9.5") active color TFT LCD

Frequency Specifications

Frequency Range	20 Hz to 26.5 GHz
Frequency Span Range	0 Hz, 10 Hz to 26.5 GHz

Amplitude and Level Specifications

Maximum RF Input Level	+30 dBm (1 W)
Maximum DC Input Voltage	0 V (DC coupled), 50 V (AC coupled)
Input Attenuation Range	0 dB to 70 dB
Input Attenuation Step Size	10 dB

Sweep and Trigger Specifications

Sweep Time Range (Span = 0 Hz)	1 µs to 2500 s
Sweep Points	500

Bandwidth Specifications

Resolution Bandwidth (RBW) Range	1 Hz to 10 MHz
Video Bandwidth (VBW) Range	1 Hz to 10 MHz
FFT Filter Bandwidth Range	1 Hz to 1 kHz

Inputs and Outputs (RF & Analog)

RF Input Impedance	50 Ω
External Reference Input Frequency	10 MHz
External Reference Output Frequency	10 MHz

Demodulation and Analysis

AF Demodulation Types	AM and FM

Options and Hardware Configurations

High Stability Reference Option	FSE-B4 (OCXO)
Vector Signal Analysis Option	FSE-B7

Measurement

Detectors	Max Peak, Min Peak, Auto Peak, Sample, RMS, Average

Storage

Floppy Disk Drive	3.5 inch, 1.44 MB

Control

Command Set	SCPI

TECHNOLOGY

Superheterodyne Spectrum Analysis / Digital Signal Processing

APPLICATIONS

High-frequency spectrum monitoring, digital/analog demodulation, and RF component characterization