

ADVANTEST

R3361B

The Advantest R3361B is a legacy high-performance spectrum analyzer featuring an integrated tracking generator designed for rf and microwave applications up to 2.6 GHz. Distinct from the 50-ohm 'A' model, the R3361B variant features 75-ohm input and output impedances, making it exceptionally suited for cable television (CATV) and broadcasting system measurements.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488)
Display	CRT

Physical

Power Supply	100 to 120 VAC / 220 to 240 VAC (switchable), 50/60 Hz, <= 150 VA
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	330 mm × 177 mm × 450 mm mm
Weight	17 kg

Frequency Specifications

Frequency Range	9 kHz to 2.6 GHz
Frequency Span Range	0 Hz (zero span), 50 kHz to 2.6 GHz
Reference Frequency Accuracy	+/-2 x 10 ⁻⁶ / year

Resolution and Bandwidth

Resolution Bandwidth (RBW) Range	30 Hz to 1 MHz (1, 3 sequence)
Video Bandwidth (VBW) Range	1 Hz to 1 MHz (1, 10 sequence)

Inputs and Outputs

RF Input Impedance	75 Ω
RF Input Connector	NC female (75 Ω)

Tracking Generator

Tracking Generator	Built-in (standard)
Tracking Generator Frequency Range	9 kHz to 2.6 GHz
Tracking Generator Output Impedance	75 Ω
Tracking Generator Output Connector	NC female (75 Ω)
Tracking Generator Output Level Range	+55 to +105 dBμV (1 dB steps)

Sweep

Sweep Time Range	50 ms to 1000 s
Sweep Trigger Modes	Free Run, Line, Single, External, Video

Amplitude

Log Display Scale	1, 2, 5, 10 dB/div
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Frequency

Frequency Resolution	1 Hz
Reference Frequency Aging Rate	$\pm 2 \times 10^{-6}$ / year (standard)
Single Sideband (SSB) Phase Noise	≤ -90 dBc/Hz @ 20 kHz offset

Calibration

Calibration Output Frequency	30 MHz
Calibration Output Level	+80 dB μ V @ 30 MHz

Receiver / Amplitude

Displayed Average Noise Level	≤ -11 dB μ V (100 kHz to 2.6 GHz, 1 kHz RBW)
Input Attenuator Range	0 to 50 dB (10 dB steps)
Log Scale Settings	1, 2, 5, 10 dB/div

Filters & Bandwidths

Resolution Bandwidth Selectivity (60 dB/3 dB ratio)	$< 15:1$
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Storage & Interface

Memory Card Slot	IC memory card (for saving/recalling waveforms and settings)
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TECHNOLOGY

Superheterodyne Spectrum Analyzer

APPLICATIONS

RF and Microwave Measurement, CATV Testing, Broadcast Component Characterization

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.