ADVANTEST

R3265A

The Advantest R3265A is a high-performance microwave EMI-adapted portable spectrum analyzer designed for a frequency range of 100 Hz to 8 GHz. It features a high input sensitivity of -145 dBm, standard GPIB and RS-232C interfaces, and a built-in BASIC controller for automated test routines. Its resolution bandwidth ranges down to 10 Hz, and its fast sweep capabilities down to 5 µs/div make it highly suitable for detailed electromagnetic interference measurements and RF analysis.

SPECIFICATIONS

General

Display	Color CRT

Physical

Power Supply	100 V to 120 V AC / 220 V to 240 V AC, 50/60 Hz
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	350 mm × 177 mm × 450 mm mm
Weight	22 kg kg

Frequency Specifications

Frequency Range	100 Hz to 8 GHz

Bandwidth (RBW/VBW)

Resolution Bandwidth (RBW) Range	10 Hz to 3 MHz
EMI Bandwidths (6 dB)	200 Hz, 9 kHz, 120 kHz, 1 MHz
Video Bandwidth (VBW) Range	1 Hz to 3 MHz
RBW Steps	1, 3 sequence
VBW Steps	1, 3 sequence

Amplitude & Measurement Range

Maximum Input Sensitivity (DANL)	-135 dBm
Maximum Safe RF Input Power	+30 dBm (1 W)
Maximum DC Input Voltage	0 V

Inputs, Outputs & Connectivity

RF Input Impedance	50 Ω
RF Input Connector Type	N-type (female)

Sweep & Trigger Specifications

Fastest Sweep Rate	5 µs/div
Sweep Time Range (Zero Span)	50 µs to 1000 s
Sweep Time Range (Span > 0 Hz)	20 ms to 1000 s

Display & User Interface

BASIC Controller	Equipped as standard
Memory Card Interface	Memory card function

Frequency

Frequency Span Range	2 kHz - 8 GHz, plus Zero Span
Residual FM	< 20 Hz p-p / 100 ms

Frequency Reference

Internal Reference Oscillator Stability	±2 × 10^-8/day, ±1 × 10^-7/year

Performance

SSB Phase Noise	≤ -100 dBc/Hz @ 10 kHz offset

Amplitude

Amplitude Measurement Range	-135 dBm to +30 dBm
Input Attenuator Range	0 to 70 dB in 10 dB steps
Calibration Output Signal	20 MHz, -20 dBm ±0.3 dB
Frequency Response (100 Hz to 3.2 GHz)	±1.0 dB
Frequency Response (3.2 GHz to 8 GHz)	±1.5 dB
1 dB Gain Compression	>-10 dBm (for frequencies > 10 MHz)
Log Scale Fidelity	±1.0 dB / 0 to -90 dB, ±0.2 dB / 1 dB

Display & Sweep

Log Display Scale	10, 5, 2, 1 dB/div
Linear Display Scale	10% of reference level/div
Trigger Modes	Free Run, Line, Video, External, Single

EMI Measurement

Quasi-Peak Detector Bandwidths	200 Hz, 9 kHz, 120 kHz, 1 MHz (CISPR compliant)

Spurious Responses

Residual Responses	<-100 dBm (1 MHz to 3.2 GHz, no input signal, 50 Ω load)
Second Harmonic Distortion	<-70 dBc (10 MHz to 3.2 GHz, mixer level -30 dBm)
Third-Order Intermodulation Distortion	<-75 dBc (10 MHz to 8 GHz, mixer level -30 dBm)

Inputs & Outputs

External Reference Input Frequency	10 MHz
External Reference Input Level	-10 dBm to +10 dBm

TECHNOLOGY

Superheterodyne Spectrum Analyzer

APPLICATIONS

Microwave EMI-Adapted Spectrum Analysis

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