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Test & Measurement

- > sales
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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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TMG Corporate Website

TMG Products Website



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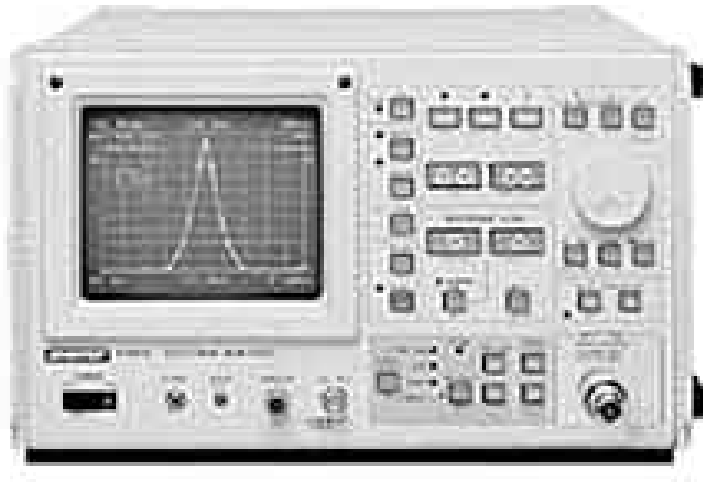
Product Lifecycle Management System

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Product Specifications for Advantest R4131D



Product Description:

Advantest R4131D 10 kHz to 3.5GHz, Spectrum Analyser

The Advantest R4131D spectrum analyser is a wide band, very sensitive receiver. It works on the principle of "super-heterodyne receiver" to convert higher frequencies (normally ranging up to several 10s of GHz) to measurable quantities. The received frequency spectrum is slowly swept through a range of pre-selected frequencies, converting the selected frequency to a measurable DC level (usually logarithmic scale), and displaying the same on the CRT of the Advantest R4131D. The CRT displays received signal strength (y-axis) against frequency (x-axis).

Some applications for Advantest R4131D Spectrum Analysers include Site Monitoring: Verify that the frequency and signal strength of your transmitter is accurate. Interference: Before a system is installed you use an Advantest R4131D spectrum analyser to verify that the frequencies (you plan to use) are not occupied or if the presence of a very strong signal will interfere with your new setup. Interference can be created by a number of different situations. Other tests that utilize the Advantest R4131D spectrum analyser features include antenna isolation, co-channel interference, adjacent channel power, occupied bandwidth, intermodulation, microwave or satellite antenna alignment, and characterization of components.

Auto-Recall Function
Quasi-Peak Value Measurmt Func
Waveform Can Be Saved In Memor
5.5 in. CRT Display
Field Strength Measurement
Occupied Bandwidth Measurement
Video Signal Modulation Analys
Frequency Stability: 100k

Performance Characteristics of the R4131D

Form Factor	Benchtop
Input Impedance	50 Ohm
Minimum Frequency	10 kHz
Maximum Frequency	3.5 GHz
Zero Span	No
Minimum Span	50 kHz
Maximum Span	4 GHz
Minimum Sweep Time	5 ms
Maximum Sweep Time	100 s
Minimum Resolution Bandwidth	1 kHz
Maximum Resolution Bandwidth	1 MHz
Resolution Bandwidth Steps	1/3/10
Minimum Video Bandwidth	10 Hz
Maximum Video Bandwidth	1 MHz
Video Bandwidth Steps	1/10/100
Maximum Single-Side-Band Noise	-80 dBc/Hz
Maximum Safe AC Input	20 dBm
Maximum DC Input	25 V
Minimum Displayed Average Noise	-116 dBm
Maximum Displayed Average Noise	-116 dBm
Maximum Dynamic Range	70 dB
Maximum Amplitude Uncertainty	1.5748E-03 %
Trigger Source	External, Internal
Trigger Modes	Freerun, Line, Single, Video
Connector type (main signal)	Type-N(f)
Probe Power	Yes
Noise Source Driver	No

Programmability/Connectivity of the R4131D

User Interface	Proprietary
Ports to Peripheral Devices	GPIB
External Video Out	Yes

R4131D Compliance

CE Compliance	Compliant
UL Compliance	Compliant

R4131D Power Requirements

Input Power 110 or 220Vac (Switchable)

R4131D Physical Dimensions

- Width: 300 mm(11.81 in)
- Height: 177 mm(6.96 in)
- Length: 460 mm(18.11 in)
- Weight: 10 kg(22.04 lb)

R4131D Standard Accessories

- JUG-201A-U /Converter Adapter /Qty:1
- A01234 /Input Cable /Qty:1
- A01402 /Power Cable /Qty:1
- A02802 /Front Cover /Qty:1
- BNCJ-NCP /Converter Adapter /Qty:1
- MI-02 /Input Cable /Qty:1
- NPC-NFJ /Converter Adapter /Qty:1

