

16-Bit resolution and 90 dB dynamic range (typical) in an FFT analyzer weighing just 12 kg!

High performance without sacrificing ease of operation

- 12-kg light weight portable analyzer with a 8-in. CRT display
- Dual-channel configuration, 16-bit resolution and 90-dB dynamic range (typical)
- Maximum input sensitivity of -140 dBV (2-kHz range, typical)
- Covers 10 mHz to 100 kHz (in 1-2-5 steps)
- 25-to-3200-line frequency resolution
- Input-range settings from $+30$ dBV to -60 dBV, in 1-dBV steps enable precise optimum setting
- Built-in 3.5-in. floppy disk drive and high-speed thermal printer (optional)
- Full complement of analysis functions
- Built-in accelerometer power supply



R9211E
Digital Spectrum Analyzer

(The FDD in cover photo is option.)

ADVANTEST®
ADVANTEST CORPORATION

This FFT analyzer was designed from the ground up for simple operation and advanced performance

This new 12-kg portable FFT analyzer from ADVANTEST boasts performance and operational simplicity that only ADVANTEST's analog circuit and digital signal processing technologies can offer. It features 16-bit resolution, 100-kHz measurement bandwidth and 90-dB (typical) dynamic range.

In addition to acoustics, vibration and noise analysis, the R9211E provides solutions to problems of digital audio signal analysis, surface runout analysis of optical disks, noise measurement of DSP chips, and transmitted power measurement of telephone terminal equipments. In short, the R9211E is provided solutions to a diverse range of analysis problems.

• Major Specifications

No. of input channels: 2

Input type: Differential, single-ended

A/D converter resolution: 16 bits

Input range: +30 to -60 dBV (in 10 dB steps)

Dynamic range: 90 dB (typical)

Maximum input sensitivity: -140 dBV

Maximum differential input voltage: $\pm 200 V_{p-p}$

Frequency range: 10 mHz to 100 kHz (1-2-5 setp)

Analyzed data length: 64 to 8192 points

Measurement modes: Time domain, frequency domain

Time-frequency analysis,
frequency response function

Input filter: Anti-aliasing filter is automatically set in each measurement frequency range.

Memory capacity: 256 K word / 2 channel

Octave analysis: 1/3, 1/1 octave

Triggering: trigger level 1/256 resolution
trigger slope positive, negative or both

Accelerometer power supply: Built-in

CRT size: 8-inch

GPIB interface, direct plot output: Standard

Weight: Approx. 12 kg

Dimensions: Approx. 330 (W) \times 177 (H) \times 450 (D) mm

Option

Floppy-disk drive: 3.5-inch (2DD/2HD)

High-speed printer: Thermal type

I/O and memory: capacity; 1 M word

I/O; RS-232C interface
External keyboard interface
Comparator output

CMOS memory: 512 K word

Item of evaluation and analysis

Functions suitable for evaluation and analysis	Vibration/structural analysis	Acoustic/speech analysis	Digital-audio evaluation	Device-noise evaluation	Optical disk mechanical characteristics	Transmitted power measurement of telephone terminal equipment	ADC and DAC evaluation
90-dB (typ.) dynamic range		●	●	●	●	●	●
-140-dBV (typ.) input sensitivity (2-kHz range)		●	●	●			●
12-kg portable type	●	●					
Accelerometer power supply	●						
Time-frequency analysis	●	●	●	●			
Expansion memory (option)		●	●			●	
Built-in printer (option)	●	●	●	●	●	●	●
Built-in floppy-disk drive (option)	●	●	●	●	●	●	●
Digital I/O (option)			●				●
Frequency-response capability	●						
Differential input		●	●	●	●	●	●



Note: Due to changing user requirements and ADVANTEST's ongoing program of product improvements, some parts of the specifications in this catalog may be changed without prior notice.

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