

高機能・普及型オーディオアナライザ AVR-3300B

Spread type Audio Analyzer 高性能・普及型音频分析仪



Rear panel



D W320×H85×D360 mm **W** 5.8 kg
※ 突起物、脚を除く

● World Power

● GP-IB

RS-232C

EXT-I/O

概要 Outline / 概要

AVR-3300はオーディオ測定用信号源とDCレベル測定、ACレベル測定、ひずみ率測定、周波数測定機能を備えたオーディオアナライザです。

デジタルオーディオ測定用20kHzのPre-LPFなどの測定フィルタを装備しています。

AVR-3300 is the audio analyzer is equipped with a low distortion signal source and AC level measurement, DC level measurement distortion measurement, frequency measurement function.

Measurement filters, such as 20 kHz Pre-LPF for digital audio measurement, are equipped.

AVR-3300是具备了低失真信号源和DC电平测量，AC电平测量，失真率测量和频率测量功能的音频分析仪
数字音频测量用的是20kHz的Pre-LPF等测定滤波器。

特長 Features / 特長

- 差動平衡入力2チャンネルまたは不平衡入力2チャンネル切替方式を採用
Two channel differential balanced inputs or two channel unbalanced input switch system is adopted.
采用差动平衡输入2通道或者不平衡输入2通道切换的方式
- 測定部にGNDフローティングモードを装備
A measurement block is equipped with a GND floating mode.
测量部位可以有接地浮动模式
- 測定用信号源としてDDS方式を採用したオシレータを標準装備
The oscillator which adopted the DDS system as a source of a measurement signal is equipped standard.
测量用信号源的标准装置是采用DDS方式的振荡器
- 各種フィルタをモジュール化し、容易に追加オプションに対応可能
Various filters are modularized and correspondence in an additional option is easily possible.
各种滤波器已经模块化，可以轻松实现追加可选功能
- 歪率測定範囲10Hz～110kHz
Distortion measurement range is from 10Hz to 110kHz
失真测量的范围为10Hz～110kHz
- 省スペース化対応設計で小型・軽量化を実現
Small size and weight saving realization by space-saving design.
采用省空间设计，实现了小型化和轻量化

AVR-3300B 仕様 / Specification

測定用信号源 / signal source

Frequency range	: 10Hz~50kHz
Resolution	: 4-digits display
Accuracy	: $\pm 1\%$ of setting all range
Output range	: -79.9dBV~19dBV [EMF]
Resolution	: 0.1dB
Accuracy	: ± 0.5 dB of setting (> -37.1 dB μ) : ± 0.8 dB of setting (≤ -37.2 dB μ) at 1kHz 600 Ω load
Flatness	: ± 0.5 dB (all range) : ± 0.2 dB (20Hz~20kHz) at 1kHz ref. 600 Ω load
Output channel	: 2ch
Output impedance	: 600 Ω
Noise level(with output off)	: Less than 20 μ Vrms
Distortion	: $\leq 0.01\%$ (-80dB) (all range) : $\leq 0.00316\%$ (-90dB) (20Hz~15kHz、80kHz BW)

測定機能 / Measurement functions

Frequency、AC level、DC level、Distortion(THD+N)

周波数測定 / Frequency measurement

Range	: 10Hz~110kHz
Resolution	: 0.01Hz at ≤ 99.99 Hz : 4-digit display at ≥ 100.0 Hz
Accuracy	: ± 100 ppm ± 1 digit
Input voltage range	: 25mV~31.6Vrms

ACレベル測定 / AC level measurement

Measurement channel	: 2ch (Unbal.-switchable)、1ch(Bal)
Input method	: Unbalance & balanced (selectable)
Separation for 2 channels	: ≥ 70 dB
Input impedance	: $\geq 100k\Omega$
Range	: 0.0316mV(-90dBV)~31.6V(30dBV) 6 ranges
Resolution	: 0.1% of full scale value
Accuracy	: ± 0.4 dB -70~30dBV at 1kHz
Frequency range	: 10Hz~110kHz
Flatness(1kHz ref.)	: ± 0.4 dB (10Hz~20kHz) : ± 0.8 dB (10Hz~110kHz)
Detection response	: RMS or average response

DCレベル測定 / DC level measurement

Measurement channel	: 1ch
Input impedance	: $\geq 1M\Omega$
Range	: 0.00~ ± 40 V
Resolution	: 0.01V
Accuracy	: ± 50 mV

ひずみ率測定(THD+N) / Distortion measurement

Frequency range	: 10Hz~110kHz (AUTO)
Resolution	: 0.1% of full scale
Measurement range	: 7 ranges : 31.6% -10dBV : 10.0% -20dBV : 3.16% -30dBV : 1.0% -40dBV : 0.316% -50dBV : 0.1% -60dBV : 0.0316% -70dBV
Residual distortion (3.16Vrms)	: ≤ -100 dB (201Hz~10kHz、30kHz BW) : ≤ -90 dB (10Hz~110kHz)
Accuracy	: ± 1 dB (20Hz~20kHz)
2'nd harmonic accuracy	: ± 3 dB (10Hz~110kHz)
Input range	: 7 ranges 31.6V 30dBV 10.0V 20dBV 3.16V 10dBV 1.0V 0dBV 0.316V -10dBV 0.1V -20dBV 0.0316V -30dBV

その他 / Others

Filter	HPF	: 200Hz: 18dB/oct
	LPF	: 20kHz、30kHz: 18dB/oct
	Pre LPF	: 20kHz
	PSOPHO	: IEC-A : CCIR-ARM ITU-R 2kHz-weightin : DIN-AUDIO (Option)
Memory function		: 100 data

インタフェース / Interface

GP-IB	: IEEE488
RS-232C	: 38400bps
EXT-I/O	: LS-TTL level

電源・使用環境 / Power requirements

Power requirements	: AC90V~250V 50/60Hz
Power consumption	: Approx. 36VA
Guarantee temperature	: 15 $^{\circ}$ C~35 $^{\circ}$ C

外形寸法・質量 / Dimension & Weight

Dimension	: W320 \times H85 \times D360(mm) *
Weight	: Approx. 5.8kg * Protruding parts not included.



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