

2ch多機能 オーディオアナライザ AVR-3700

Multi-function Audio Analyzer 多功能双通道音频分析仪



Rear panel



D W426×H130×D405 mm **W** 12.7 kg

※ 突起物、脚を除く

● GP-IB

RS-232C

EXT-I/O

概要 Outline / 概要

AVR-3700はL/R個別のオーディオ信号発生器、オーディオ測定装置を備えた2chオーディオアナライザです。ステレオ信号の同時測定や2信号間の相関測定に効果を発揮します。

AVR-3700 is 2ch audio analyzer equipped with audio signal generator and audio measuring device according to L/R individual. Effect is demonstrated to simultaneous measurement of stereo signal, or correlation measurement between 2 signals.

AVR-3700 是配备了L/R 分别产生音频信号的发生器、音频检测装置的2通道音频分析仪。

在测试立体声信号的同时，对2信号之间进行相关测试时，可发挥其效果。

特長 Features / 特長

- 2チャンネル同時測定・表示が可能。測定時間が従来の切換方式の1/6以下に短縮実現(当社製品比)
2channel simultaneous measurement and display are possible. Measurement time is shortened of less than 1/6 of L/R switching system. (Product comparison of our company)
2通道可同时进行测试、显示。与历来的切换方式相比，测试时间可缩短至原来的1/6 (与本公司产品相比)

測定時間比較 例) L/R歪率

Measuring time comparison
exp.) L/R Distortion

测试时间比较 例) L/R失真率

AVR-3700	AVR-3300	X社 2ch Audio analyzer X company 2ch Audio analyzer
43ms	304ms + switing time	185ms

- 信号発生器はL/R個別に周波数とレベル設定可能
In signal generator, frequency and level setting according to L/R individual are possible.
信号发生器可左右分别进行频率以及电平设定
- 信号発生器出力、AC測定入力ともに平衡/不平衡の切換が可能
The change of balance/unbalance is possible for signal generator output and AC measurement input.
信号发生器的输出、AC测试输入均可进行平衡/不平衡之间的切换
- 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.
測量部位具有浮动接地模式
- 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
- レシオ測定、WATT表示に対応
It corresponds to ratio measurement and WATT display.
可比例测量，WATT显示
- GP-IB、RS-232C、EXT-I/Oを標準装備
GP-IB, EXT.I/O for external control are equipped standardly.
GP-IB、RS-232C、EXT-I/O 标配

AVR-3700 仕様 / Specification

測定用信号源 / signal source

Frequency range	: 10Hz~100kHz
Resolution	: 4-digits display
Accuracy	: $\pm 5 \times 10^{-4}$ of setting all range
Output range	: UNBAL/BAL -85.9dBV~14dBV (600Ω load end)
Distortion	: UNBAL $\leq 0.00158\%$ (-96dB) (10Hz~10kHz, 80kHzBW) $\leq 0.0158\%$ (-76dB) (15.01kHz~100kHz) : BAL $\leq 0.0224\%$ (-93dB) (10Hz~10kHz, 80kHzBW) $\leq 0.0158\%$ (-76dB) (15.01kHz~100kHz)
Resolution	: 0.1dB
Accuracy	: ± 0.4 dB of setting at 1kHz 600Ω load
Flatness	: ± 0.8 dB (all range) : ± 0.4 dB (20Hz~20kHz) at 1kHz ref. 600Ω load
Output channel	: 2ch UNBALI/BAL
Output impedance	: 600Ω

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 : 5-digit display at >100.0Hz
Accuracy	: ± 100 ppm ± 1 digit
Input voltage range	: 10mVrms~31.6Vrms

ACレベル測定 / AC level measurement

Measurement channel	: 2ch (L/R Dual operation)
Input method	: UNBAL/BAL
Separation for 2 channels	: ≥ 80 dB (1kHz/One channel 600Ω termination)
Input impedance	: ≥ 100 kΩ
Measurement range	: 0.0316mV(-90dBV)~100V(40dBV)
Accuracy	: ± 0.4 dB -70~40dBV at 1kHz
Frequency range	: 10Hz~110kHz
Flatness(1kHz ref.)	: ± 0.4 dB (20Hz~80kHz) : ± 0.8 dB (10Hz~110kHz)
Detection response	: RMS or average response
Relative level range	: ± 130 dB
Ratio range	: -160~160dB Resolution: 0.01dB:
WATT range	: 0~999.99W Resolution: 0.01W 2~5000 ohms Resolution: 1 ohm

DCレベル測定 / DC level measurement

Measurement channel	: 1ch
Input impedance	: ≥ 1 MΩ
Measurement range	: ± 0 V~ ± 100 V : 316mV/3.16V/31.6V/100VFS 4ranges
Accuracy	: $\pm 1\%$ FS

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

Frequency range	: 10Hz~110kHz (AUTO)
Measurement range	: 31.6% -10dB : 10.0% -20dB : 3.16% -30dB : 1.0% -40dB : 0.316% -50dB : 0.1% -60dB : 0.0316% -70dB
Residual distortion (3.16Vrms)	: ≤ -100 dB (20Hz~20kHz, 80kHzBW) : ≤ -96 dB (10Hz~19.9Hz, 80kHzBW)
Accuracy	: ± 1 dB (20Hz~10kHz)
2'nd harmonic accuracy	: ± 3 dB (10Hz~110kHz)
Input level range	: 0.0316Vrms~100.0Vrms

その他 / Others

Filter	HPF	: 100Hz, 200Hz (18dB/oct)
	LPF	: 20kHz, 80kHz (18dB/oct)
	Pre LPF	: 20kHz Approx.-60dB at 24.1kHz Distortion: ≤ -90 dB
	PSOPHO	: IEC-A : CCIR-ARM ITU-R 2kHz-weighting : DIN-AUDIO DIN45405(Optional)
Memory function		: 100 data

インタフェース / Interface

GP-IB	: IEEE488
RS-232C	: 38400bps
EXT-I/O	: LS-TTL level Isolated
MONITOR OUT	: 2ch (L/R)

電源・使用環境 / Power requirements

Power requirements	: AC100V/200V 50/60Hz
Power consumption	: Approx. 125VA
Guarantee temperature	: 15°C~35°C

外形寸法・質量 / Dimension & Weight

Dimension	: W426 × H130 × D405(mm) *
Weight	: Approx. 12.7kg * Protruding parts not included.



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