

AVR Series

Audio Analyzer


 多機能 オーディオアナライザ
AVR-3710

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


Rear panel


D W426×H130×D405 mm **W** 12.3 kg

※ 突起物、脚を除く



GP-IB

RS-232C

EXT-I/O

概要

Outline / 概要

AVR-3710はオーディオ信号発生器、オーディオ測定装置を備えた1chオーディオアナライザです。リミット判定機能、100個のプリセットメモリ、メモリを実行するオートシーケンス機能を有しています。

AVR-3710 is 1ch audio analyzer equipped with audio signal generator and audio measuring device.

Limit judgment function, 100 preset memories, and auto sequence function to execute memory.

AVR-3710 是配备了产生音频信号的发生器、音频检测装置的1通道音频分析仪。

限度确定功能，100预置存储器，它具有自动序列函数来执行存储器。

特長

Features / 特长

- 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.
信号発生器の出力、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
- 測定用信号源としてDDS方式を採用したオシレータを装備。差動出力または不平衡出力を切り替えて使用可能
Equipped with oscillator employing DDS method as the measurement signal source.
Differential output or unbalanced output possible use by switching
配备了振荡器采用DDS系统的测量信号源 差分输出或不平衡输出通过切换可能使用
- WATT表示に対応
It corresponds to 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-3710 仕様 / Specification

測定用信号源 / signal source

Frequency range	: 10Hz to 100kHz 4 ranges
Resolution	: 4-digits display
Accuracy	: $\pm 5 \times 10^{-4}$ of setting all range
Output range	: UNBAL/BAL -85.9dBV to 14dBV (600Ω load end)
Distortion	: UNBAL $\leq 0.00158\%$ (-96dB) (10Hz to 10kHz, 80kHzBW) $\leq 0.0158\%$ (-76dB) (15.01kHz to 100kHz) : BAL $\leq 0.0224\%$ (-93dB) (10Hz to 10kHz, 80kHzBW) $\leq 0.0158\%$ (-76dB) (15.01kHz to 100kHz)
Resolution	: 0.1dB
Accuracy	: ± 0.4 dB of setting at 1kHz 600Ω load
Flatness	: ± 0.8 dB (all range) : ± 0.4 dB (20Hz to 20kHz) at 1kHz ref. 600Ω load
Output channel	: 1ch UNBAL / 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 to 110kHz
Resolution	: 0.01Hz at <100Hz : 5-digit display at ≥ 100 Hz
Accuracy	: ± 100 ppm ± 1 digit
Input voltage range	: 10mVrms to 100Vrms

ACLレベル測定 / AC level measurement

Measurement channel	: 1ch
Input method	: UNBAL/BAL
Input impedance	: ≥ 100 kΩ
Measurement range	: 0.0316mV(-90dBV) to 100V(40dBV) 7 ranges
Accuracy	: ± 0.4 dB -70 to 40dBV at 1kHz
Frequency range	: 10Hz to 110kHz
Flatness(1kHz ref.)	: ± 0.4 dB (20Hz to 80kHz) : ± 0.8 dB (10Hz to 110kHz)
Detection response	: RMS / Average
Noise level	: 10μV or less (600Ω TERM)
Relative level range	: ± 120 dB or more
WATT range	: 0 to 999.99W Resolution: 0.01W 2 to 5000 ohms Resolution: 1 ohm

DCLレベル測定 / DC level measurement

Measurement channel	: 1ch
Input impedance	: ≥ 1 MΩ
Measurement range	: ± 0 V to ± 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 to 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 to 20kHz, 80kHzBW) : ≤ -96 dB (10Hz to 19.9Hz, 80kHzBW)
Accuracy	: ± 1 dB (20Hz to 10kHz)
2'nd harmonic accuracy	: ± 3 dB (10Hz to 110kHz)
Input level range	: 3.16mVrms to 100.0Vrms

その他 / Others

Filter	HPF	: 100Hz, 200Hz (18dB/oct)
	LPF	: 15kHz, 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
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

電源・使用環境 / Power requirements

Power requirements	: AC100V/120V/230V/240V
Power consumption	: Approx. 125VA
Guarantee temperature	: 10°C~35°C 80%RH or less

外形寸法・質量 / Dimension & Weight

Dimension	: W426 × H130 × D405(mm) *
Weight	: Approx. 12.3kg * Protruding parts not included.



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