


AUDIO ANALYZER	
AUDIO SOURCE	
Output channels	2 channels (L / R) Unbalance
Frequency range	10 Hz to 30 kHz / 1 Hz step
Output level	1 mV[rms] to 3.16 V[rms]
Level accuracy	± 0.5 dB (≥0.25 V[rms]) ± 1 dB (≤249 mV[rms])
Flatness	± 0.5 dB (2 V[rms], 1 kHz ref.)
Distortion	≤0.003 % (1 kHz, 2 V[rms], 20 kHz BW)
Residual noise	≤10 μV[rms] (20 kHz BW)
DC MEASUREMENT	
DC voltage input range	±30 V / ±300 mV
DC current input range	±3 A / ±30 mA / ±300 μA
DC measurement accuracy	± (0.2 % of RD+0.2 % of Fs)
FREQUENCY MEASUREMENT	
Measurement range	10 Hz to 20 MHz (Frequency counter input) 10 Hz to 30 kHz (Audio input)
Measurement accuracy	± (1×10 ⁻⁵ + 1 digit)
Counter input impedance	50 Ω / 1 MΩ
AUDIO MEASUREMENT	
Measurement function	AC level / Ratio / S/N / Distortion / THD
Input channels	4 channels / Balance
Input impedance	Approx. 100 kΩ / ≤200 pF
Measurement range	AC level / Ratio / S/N 100 V[rms] to 3 mV[rms] (6 range) Distortion / THD 100 V[rms] to 3 mV[rms] (10 range)
Frequency range	20 Hz to 30 kHz (AC level / Ratio / S/N) 100 Hz to 10 kHz (Distortion / THD)
AC level accuracy	±3 % of Fs (without 3 mV[rms] range) ±5 % of Fs (3 mV[rms] range)
Crosstalk	≤-80 dB (Denominator signal : 1 kHz, ≥1 V[rms])
Residual noise	≤10 μV (20 kHz BW)
Residual distortion	≤0.003 % (20 KHz BW, 1 kHz input) (3 V[rms] Fs input)

VIDEO ANALYZER	
VIDEO MEASUREMENT	
Measurement function	Color bar / Peak-to-peak / Multi burst / Y Linearity / DG-DP
Support system	NTSC / PAL (Composite) 480i/p / 576i/p (Component)
Signal type	VBS (Composite) / Y+S/C (Separate) G/B/R (Component) / Y/Pb/Pr (Component)
Input impedance	75 Ω / 1 MΩ (tolerance ±10 %)
Color burst frequency	3.579 545 MHz±1 kHz (NTSC) 4.433 619 MHz±1 kHz (PAL)
Level accuracy	±1 % of Fs
Phase accuracy	±1°

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 安全に関するご注意	●ご使用の際は、「取扱説明書」よくお読みの上 正しくお使いください。
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●お問い合わせは……

SIGNAL GENERATOR	
AM/FM SIGNAL GENERATOR	
Frequency range	0.1000 MHz to 140.0000 MHz / 162.0000 MHz to 163.0000 MHz
Frequency accurac	± (5×10 ⁻⁵ +1 digit)
Output level range	-20.0 dBμV to 126.0 dBμV[emf]
Level accuracy	±1.5 dB (≥0 dBμV[emf]) ±2 dB (<0 dBμV[emf])
Output Impedance	50 Ω
VSWR	≤1.3 (≤101 dBmV[emf])
Harmonic spurious	≤-30 dBc (2nd/3rd)
Non harmonics	≤-50 dBc (fc>35 MHz)
spurious	≤-40 dBc (fc≤35 MHz, fs≤35 MHz) ≤-30 dBc (fc≤35 MHz, fs>35 MHz)
Residual FM	≥76 dB (76 to 108 MHz)
Residual AM	≥55 dB (0.4 to 1.7 MHz)
Modulation source	Audio source in AUDIO ANALYZER
AM depth range	0 % to 100 % / 0.5 % step
AM depth accuracy	± (setting×0.1+1) % (0.4 to 1.7 MHz)
AM distortion	≤0.5 % (0.4 to 1.7 MHz, AM 30 %)
Incidental FM	≤150 Hz (0.4 to 1.7 MHz, AM 30 %)
FM deviation range	0 kHz to 100 kHz / 0.5 kHz step
FM deviation accuracy	± (setting×0.1+0.5) kHz (76 to 108 MHz)
FM distortion	≤0.05 % (76 to 108 MHz, FM 75 kHz)
Incidental AM	≤0.5 % (76 to 108 MHz, FM 75 kHz)
Pre-emphasis	OFF / 25 μs / 50 μs / 75 μs
FM stereo modulation	0 to 127 % / 1 % step
FM stereo accuracy	± (setting×0.1+1) % (76 to 108 MHz)
FM stereo separation	≥55 dB (76 to 108 MHz)
Pilot signal frequency	19 kHz±1 Hz
Pilot signal level	0 % to 15 % / 0.1 % step
Relay drive output	Approx. 5 V / Approx. 50 mA
RDS signal	Option

OTHERS	
INTERFACE	
User interface	Analog RGB (Display) / USB (4 ports)
Communication	Ethernet (10/100 BASE-T)
External control interface	RS-232-C (2 ports) / GP-IB / TTL DIO (5 ports×8 bits) / Isolated DO (8 bits) / I ² C bus / Ir remote control output
OTHERS	
Power requirement	AC 90 V to 250 V
Frequency	50 Hz / 60 Hz
Power consumption	≤200 VA
Dimension	426 (W) × 100 (H) × 400 (D) mm
Weight	Approx. 10 kg

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 このカタログの記載内容は2008年11月現在のものです。
 本カタログ掲載商品の仕様、デザイン等は性能改善のため予告なく変更させていただくことがあります。
 Specifications are subject to change without notice for product improvement.

NOV, 2008 Printed in Japan

●カタログと実際の商品・画面の色は印刷インキの関係で多少異なって見えることがありますのでご了承ください。

levear Television

AVマルチテスタ

AV Multitester

VP-7670T

Audio Analyzer: VP-7670T01

Video Analyzer: VP-7670T02

Audio & Video Analyzer: VP-7670T03

Audio Analyzer & AM/FM Signal Generator: VP-7670T05

Audio & Video Analyzer and AM/FM Signal Generator: VP-7670T07



All in One

オーディオ測定、ビデオ測定、AM/FM SG をコンパクトに集約

Compact tester combining audio analyzer, video analyzer and AM/FM signal generator.

Flexible

用途に応じて柔軟に搭載機能モジュールの選択が可能

Wide selection of built-in function modules.

Hight Speed

Windows 搭載 CPU でコンパクトサイズでも高速処理

Windows XP embedded CPU for high speed processing in a compact body.

Low-cost

小型/低価格/オールインワンでトータルコストを低減

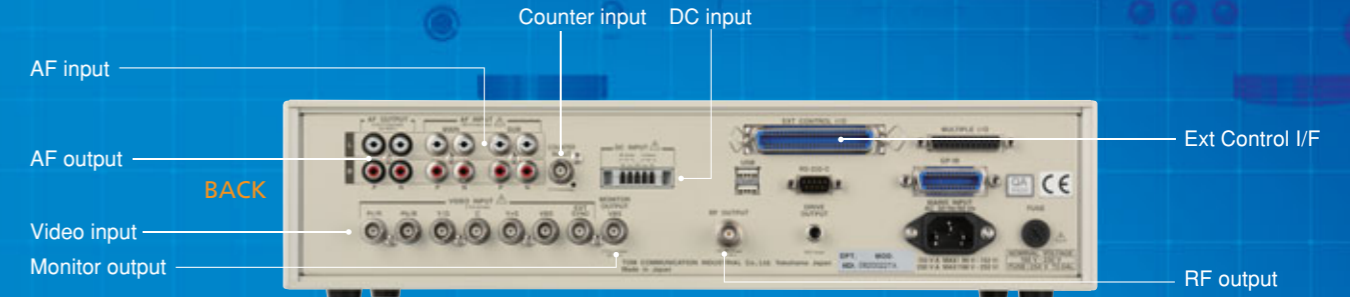
Compact all-in-one body will realize cost down of AV Multitester and total system.

AV機器の開発・生産に必要な計測機能を1台に集約した、オールインワンタイプの小型・高速計測器。

All-in-one compact and high speed measuring system, incorporating a wide variety of functions required in the development and production of audio/video products.

使用環境に応じた3つの動作モード

AV Multitester offers 3 different operational modes to fit your various ways of use.



Mode 1 Direct mode

ダイレクトモード

外部ディスプレイとUSBマウスを接続してPCなしで直接操作。各種測定のマニュアル操作が可能です。

No PC is necessary in the direct mode. All you need is an external LCD display monitor and an USB mouse to enable various manual measurements.



AM/FM SG

AF Source.

DC measure

Freq. counter.

AF measure.

AF Waveform

外部ディスプレイ
External LCD monitor display



*外部ディスプレイとマウスは本器に付属していません。
An external LCD monitor display and a mouse are not provided.

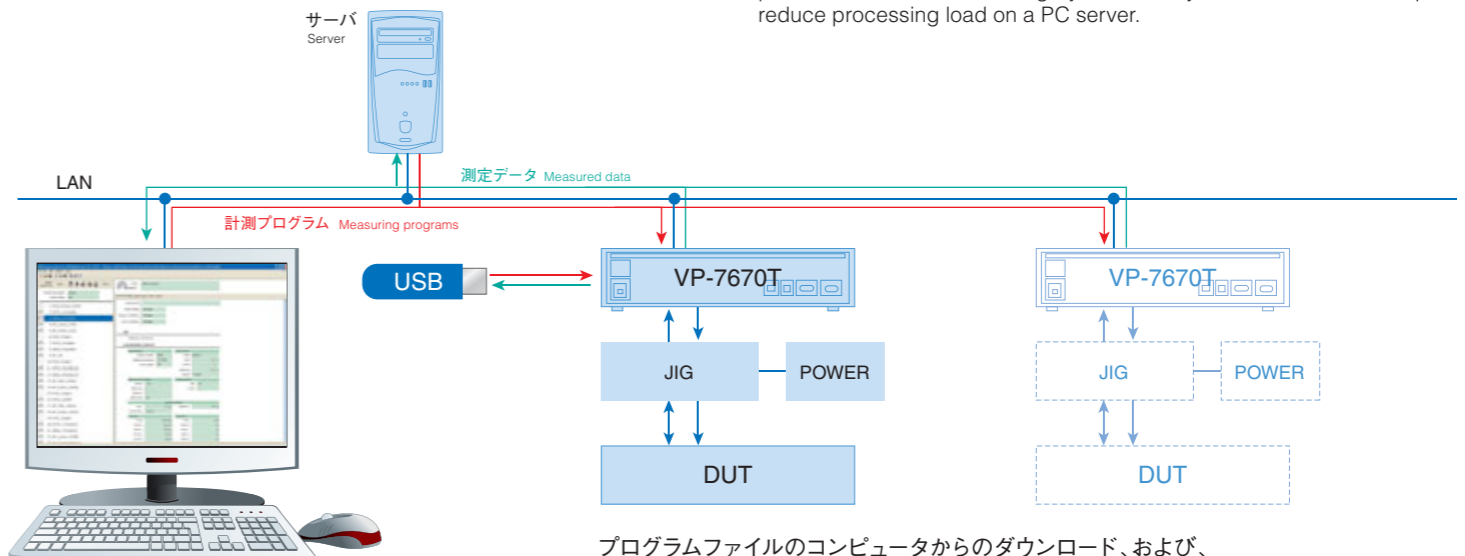
マウス
Mouse

Mode 2 Active mode

アクティブモード

専用エディタソフトで作成した自動計測プログラムを、本器単体で実行できます。また、LANを用いた負荷分散型ラインの構築も容易です。

In the active mode, no PC is needed to run automatic measuring programs made with a provided editing software for PCs. It is also possible to build measuring system easily via Ethernet and help to reduce processing load on a PC server.



付属エディタソフトでプログラムを作成
An editing software is provided to make measuring programs.

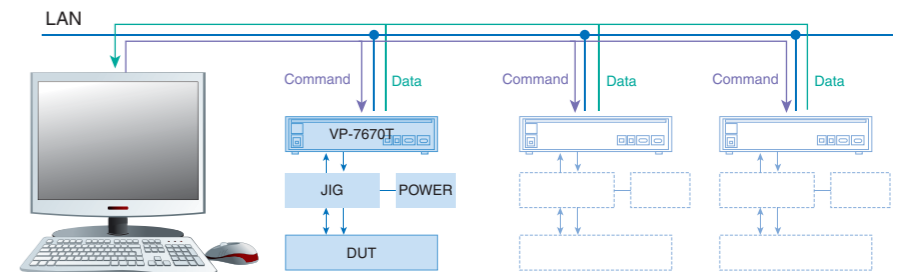
プログラムファイルのコンピュータからのダウンロード、および、測定結果ファイルのコンピュータへの転送は、LAN または USB メモリーで行います。Measuring programs and measured data files can be transferred via Ethernet or a USB memory.

Mode 3 Passive mode

パッシブモード

豊富な外部機器用インターフェースを搭載、Ethernet (LAN) 経由で外部機器のリモート制御可能。ネットワークシステムへの組み込みも容易です。

Thanks to various types of interfaces on the AV Multitester, it is also possible to control external equipments via Ethernet, enabling to build comprehensive network system easily.



用途に応じて自由に組み合わせられる各種モジュール

Wide selection of built-in function modules for your needs. Also following optional modules are available for additional functions after factory shipment.

Audio モジュール

Audio module
各種オーディオ測定
Audio measurements

Video モジュール

Video module
各種ビデオ測定
Video measurements

AM/FM SG モジュール

AM/FM SG module
AM/FM ラジオ用の各種信号発生
Signal generation for AM/FM radio

多彩な外部インターフェース

Incorporated various types of interfaces

ディスプレイ出力、USB、Ethernet 搭載。外部機器制御インターフェースはRS-232-C、GP-IB、DIO、I²Cバス、Ir リモコン出力を搭載。

External LCD monitor out, USB, Ethernet.
For external equipments: RS-232C, GP-IB, DIO, I²C bus, infrared remote control.

コンパクトサイズでも高速処理を実現

High speed processing in a compact body.

高さ 100 mm 標準ラックサイズ、重さわずか 10 kg ながら Windows XP Embedded 搭載 CPU で高速処理を実現。

In compact and light standard rack size (H 100mm, 10kg), Windows XP embedded CPU is incorporated to realize high speed processing and comfortable operation.