

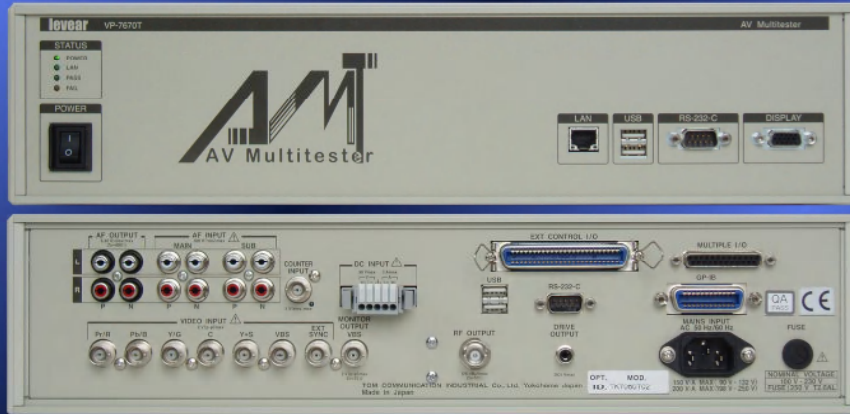
levear

AV Multitester

AV マルチテスタ

AV Multitester

VP-7670T



特長

- カーAV 機器の調整検査に最適な複合計測システム
- オーディオ測定／ビデオ測定／AM/FM SG をコンパクトに集約
- 用途に応じて柔軟に搭載機能モジュールの選択が可能
- ダイレクトモードで各種測定をマニュアル操作可能
- アクティブモードで自動計測システムを容易に構築可能
- パッシブモードで LAN 接続によるリモート制御も可能
- 小型/低価格/オールインワンでトータルコストを低減

主な仕様

- 信号源
 - AM/FM 信号源: 0.1~140 MHz / -20~126 dBuV[emf]
 - 変調モード: AM/FM/FM stereo (RDS: option)
- オーディオアナライザ
 - オーディオ信号源: 10 Hz~30 kHz / 1 mV[rms]~2.55 V[rms]
 - 測定機能: DC 電圧 / DC 電流 / 周波数 / AC レベル / レベル比 / S/N / ひずみ率 / THD
 - 残留ひずみ率: $\leq 0.003\%$ (1 kHz, Fs 入力時)
- ビデオアナライザ
 - 測定機能: カラーバー / ピーク-ピーク / マルチパースト / リニアリティ / DG・DP
 - 対応システム: NTSC / PAL (コンポジット信号) / 480i/p / 576i/p (コンポーネント信号)
 - 測定精度: $\pm 1\%$ (振幅) / $\pm 1\%$ (位相)
- インタフェース: RGB 出力 / USB / Ethernet / RS-232-C / GP-IB / DIO / I²C バス / Ir リモコン出力
- 大きさ: 426(W) × 100(H) × 400(D)mm

操作画面 / OPERATION DISPLAY



FEATURES

- Combined measuring system suitable for Car AV equipment.
- Compact tester combining Audio analyzer, Video analyzer, and AM/FM Signal generator.
- Possible selection of built in functional module.
- Manual operation for various measurements by Direct mode.
- Easy setting of automatic measuring system by Active mode.
- Remote control with LAN connection by Passive mode.
- Realize total cost reduction by compact size / economical price / all in one.

BASIC SPECIFICATIONS

- Signal Generator
 - AM/FM SG : 0.1 to 140 MHz / -20 to 126 dBuV[emf]
 - Modulation Mode : AM / FM / FM stereo (RDS: option)
- Audio Analyzer
 - Audio Source : 10 Hz to 30 kHz / 1 mV[rms] to 2.55 V[rms]
 - Measurement : DC voltage / DC current / Frequency / Function
 - Residual Distortion : $\leq 0.003\%$ (1 kHz, Fs input)
- Video Analyzer
 - Measurement : Color bar / Peak-to-peak / Multi burst / Function
 - Support System : NTSC / PAL (Composite signal) / 480 i/p / 576 i/p (Component signal)
 - Accuracy : $\pm 1\%$ (Level) / $\pm 1^\circ$ (Phase)
- Interface : RGB output / USB / Ethernet / RS-232-C / GP-IB / DIO / I²C bus / Ir remote control
- Dimension : 426(W) × 100(H) × 400(D)mm

品番 / MODEL VARIATIONS

- VP-7670T01 : Audio analyzer only
- VP-7670T02 : Video analyzer only
- VP-7670T03 : Audio analyzer & Video analyzer
- VP-7670T05 : Audio analyzer & AM/FM SG
- VP-7670T07 : Audio analyzer & Video analyzer & AM/FM SG

Specifications
AV Multimeter VP-7670T
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 2.55 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	≤ 20 uV[rms] (20 kHz BW)

DC MEASUREMENT

DC voltage input range	± 30 V / ± 0.3 V
DC current input range	± 3 A / ± 30 mA / ± 0.3 mA
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	100 kΩ (tolerance ± 10 %) / ≤ 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	≤ 20 uV (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 / 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 ± 7 kHz (NTSC) 4.433 619 MHz ± 3.5 kHz (PAL)
Level accuracy	± 1 % of Fs
Phase accuracy	± 1°

SIGNAL GENERATOR
AM/FM SIGNAL GENERATOR

Frequency range	0.1000 MHz to 140.0000 MHz / 162.0000 MHz to 163.0000 MHz
Frequency accuracy	± (5 × 10 ⁻⁵ + 1 digit)
Output level range	-20.0 dBuV to 126.0 dBuV[emf]
Level accuracy	± 1.5 dB (≥ 0 dBuV[emf]) ± 2 dB (< 0 dBuV[emf])
Output Impedance	50 Ω
VSWR	≤ 1.3 (101 dBuV[emf])
Harmonic spurious	≤ -30 dBc (2nd/3rd)
Non harmonics spurious	≤ -50 dBc (fc > 35 MHz) ≤ -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 us / 50 us / 75 us
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	≤ 250 VA
Dimension	426(W) × 100(H) × 400(D) mm
Weight	Approx. 12 kg

- 本カタログの掲載の仕様、デザイン等は性能改善のためやむ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.
- ご使用の際は、取扱説明書をよくお読みの上、正しくお使い下さい。


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