

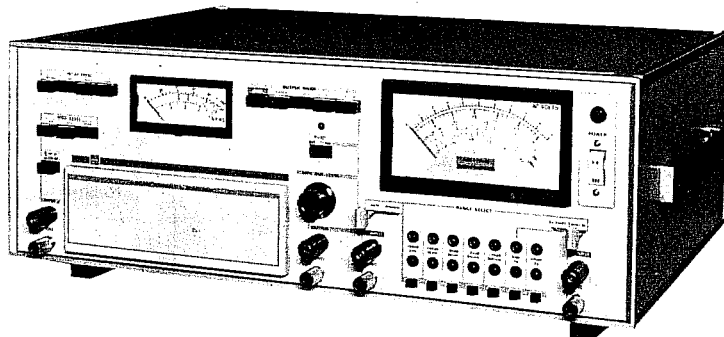
50dB

Stereo Separation Meter VP-7621A

With compliments

Helmut Singer Elektronik

www.helmut-singer.de info@helmut-singer.de
fon +49 241 155 315 fax +49 241 152 066
Feldchen 16-24 D-52070 Aachen Germany



MTBF 5000 Hours

Description

The Model VP-7621A Stereo Separation Meter is designed for simultaneous measurement of stereo separation for both (L) and (R) channels of FM stereo tuners and receivers.

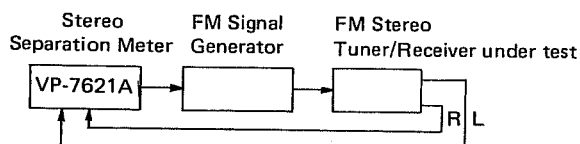
The multiplex signals from the built-in stereo signal generator are applied alternately to each channel of the device under test at approximately 0.1 second interval. The AF output signals of (L) and (R) channels are then connected from the device to input connectors of VP-7621A to measure separation of both channels simultaneously on a dual-pointer meter.

These features make this instrument well suited for use in production lines where time-saving measurement efficiency is needed.

Features

- * Automatic Separation Measurement
- * Built-in Stereo Signal Generator
- * Separation: 50dB or more, 100Hz to 10kHz
40dB or more, 50Hz to 15kHz
(typically 55dB)
- * Built-in Dual-pointer Level Meter

Diagram for Separation Measurement



Specifications

STEREO SIGNAL GENERATOR

Output Signal Characteristics

- Separation : 50dB or more, 100Hz to 10kHz
40dB or more, 50Hz to 15kHz
- Output level : 0 to 4Vrms, variable (open end)
- Frequency characteristics : Within ± 0.3 dB, 50Hz to 15kHz into 600 Ω load (with reference to 1kHz)
- Distortion : Within 0.1%, 50Hz to 15kHz into 600 Ω load
- Output impedance : 600 Ω , unbalanced, $\pm 15\%$
- Subcarrier leakage : 60dB or more for 4Vrms output
- S/N ratio : 60dB or more for 4Vrms output
- Output mode : AUTO, L + R, L, R, L - R and PILOT ON/OFF

The PILOT ON/OFF signal can be superimposed on the signal of L + R, L, R or L - R.

- Output meter accuracy : Within $\pm 3\%$ of full scale deflection

Pilot Signal

- Frequency : Within 19kHz ± 2 Hz
- Output level : 0.5Vrms or more, variable
- Phase deviation : $\pm 3^\circ$ or less (with reference to the subcarrier phase)

- Internal Oscillator : 400Hz, 1kHz, 5kHz and 10kHz, accuracy within $\pm 3\%$

External Input Characteristics

EXT INPUT

- Input frequency range : 50Hz to 15kHz
- Input impedance : 600 Ω , unbalanced, $\pm 15\%$
- Input level : 0.2Vrms or less for 100% meter indication

SCA INPUT

- Input frequency range : 59kHz to 75kHz
- Input impedance : 10k Ω , unbalanced, $\pm 20\%$
- Input level : 1Vrms or less for 10% meter indication

LEVEL METER

Separation Measurement

- Range : +10, 0, -10, -20, -30, -40, -50dB
full scale in 7 ranges (0dB = 1Vrms)

- AGC operation range : 30mV to 3Vrms (within ± 1.5 dB with reference to 1Vrms)

- Input impedance : 50k Ω $\pm 20\%$

Level Meter (Usable as an auto-ranging dual-pointer meter)

- Range : 0 - 3, 10, 30, 100, 300mV, 1, 3V full scale in 7 ranges, accuracy within $\pm 3\%$ of full scale (at 1kHz)

- Frequency characteristics : Within ± 1 dB, 100Hz to 10kHz

- Input impedance : 10k Ω $\pm 20\%$

- Range mode : AUTO/MANUAL

- Range selection : 1V FIXED/3mV-3V

- Power Requirements : AC mains, 50/60Hz, approx. 35VA power consumption

- Dimensions & Weight : 150(H) x 430(W) x 350(D) mm, approx. 9 kg

- Standard Accessories : Measuring lead, VQ-020BB (4 pcs)
Ground lead, VQ-020BR (4 pcs)