121B

ALL CHANNEL TV MODULATOR

General

This unit is TV modulator that outputs all channels of each country system.

Features

Modulation Section

①Corresponding to TV signal of 7 systems.
②Enhanced sound modulation function (Possible to make simultaneous modulation of AM and FM).
③Equipping channel indication and character indication function.
④Corresponding to external and internal IFa (Sound intermediate frequency signal).

Converter Section

⑤Output level range (－89dBm～＋10dBm)
(Level Low mode －99dBm～＋0dBm)
⑥Video and sound separate heterodyne system
⑦P/S level range (－64dB～0dB)
(But, range of －64dB～－6dB at AM modulation)
(Level Low mode －54dB～10dB)
⑧RF frequency polarity NORMAL/INVERT
⑨With sound internal modulation (Provided sweep function for 10Hz～150KHz)

Composition

Main Unit ……1
Dimensions 425(W)×99(H)×480(D) mm (Excluding projections)
Weight Approx. 17 kg

Accessories
Power Cable (Including 3pin→2pin converter) ……1
Rack Mount Adapter……1set
Instruction Manual and Test Result Sheet ……1

Power Source
Input Voltage Allowable Range : AC90V～AC132V (50Hz/60Hz)
AC180V～AC250V (50Hz/60Hz)
Power Consumption : Approx. 110VA

Operating Environment
Temperature : ＋5℃～＋40℃
Humidity : 45％～85%RH (No dew generation)

Rating

• Video Input

Connector BNC-R
Impedance 75Ω
Input Level 1Vp-p (Sync. negative)

• Audio Input

Connector BNC-R (Unbalanced)
Impedance 600Ω
Input Level 0dBm or 2Vp-p of TV sound multiplex composite signal

• External IFa Input

Connector BNC-R
Impedance 50Ω
Input Level －7dBm

• RF Output

Connector N-R
Impedance 50Ω
Output Level Range －89dBm～＋10dBm

• RF Output Frequency Range

27MHz～1200MHz 10KHz step

• P/S Level Range

－64dB～0dB 1dB step
(But, range of －64dB～－6dB at AM modulation)

• Channel Indication

Kind of indication character Numerical number and alphabet

• Sound Internal Modulation Signal

10Hz～150KHz 10Hz step

Performance

Corresponding to 7 systems
CCIR-M, B/G, I, L, OIRTD/K
Others, provided EQ ON/OFF function.

Video Section

① Frequency vs. Amplitude Characteristic

Within ±0.5dB against reference value of each system

② Frequency vs. Group Delay Characteristic

Within ±50nsec against reference value of each system

③ Non-Linearity Distortion

DG：±2％ DP：±1°

④ Waveform Response Characteristic

2T pulse ：Within Kb・Kp2
Sag ：Within 2％

⑤ S/N

More than 60dB

⑥ ICPM

Within ±1°

Audio Section
AM Modulation：

① Frequency vs. Amplitude Characteristic

Within±0.5dB for 20Hz～150KHz

② Non-Linearity Distortion

Within 0.5％ for 20Hz～150KHz

③ S/N

More than 60dB

FM Modulation：

① Frequency - Amplitude Characteristic

Within±0.5dB for 20Hz～150KHz

② Non-Linearity

Within 0.7％ for 20Hz～150KHz

③ S/N

More than 65dB (DE-EMPHASIS ON)

RF Characteristic

① Output Frequency Accuracy

Within±300Hz

② Output Level Range

－89dBm～＋10dBm 1dB step
(At level Low －99dBm～0dBm)

③ P/S Level Range

－64dB～0dB 1dB step
(Under level Low －54dB～10dB)
(But, in case of AM modulation, range of －64dB～0dB)

④ Unnecessary Emission

More than －60dB (Both for in-band and out-band)
(But, excluding in case of output of output frequency of 27MHz～50MHz)

⑤ RF Frequency Polarity

Normal/Invert

Channel Indication
Indication Character Figure and alphabet.