

Pure Sansui Tonal Quality in a Simplified Sansui Stereo Receiver



TUNER SECTION

FM Section with ICs

Sansui's CBM (Circuit Board Module) construction helps lower production costs yet extends electronic capabilities. The 221 features an FM frontend with a precision-finished, frequency-linear variable capacitor and a low-noise MOS FET to improve sensitivity to even the faintest of FM signals while raising the signal-to-noise ratio. Two bi-resonator ceramic filters and high-density ICs mean pinpoint FM station selection even in FM-congested areas.

FM Stereo Demodulator

The high-density IC in the FM demodulator of the 221 keeps left/right separation maximum clear up into the high ranges.

Sensitive AM Tuner

The large, built-in AM bar antenna lowers AM noise and increases station sensitivity.

Accurate Tuning

A heavy sintered alloy flywheel, special tension design and solid construction of the tuning mechanism in the 221 aids in smooth, accurate tuning. The super-accurate tuning meter and blackout dial-face are simple to use.

SPECIFICATIONS

AUDIO SECTION POWER OUTPUT*

Min. RMS, both channels driven, from 40Hz to 20,000Hz, with no more than 1.0% total harmonic distortion

8 watts per channel
into 4 and 8 ohms

Min. RMS, both channels driven, at 1kHz, with no more than 1.0% total harmonic distortion

9 watts per channel into 8 ohms

TOTAL HARMONIC DISTORTION*

OVERALL (AUX to speaker terminals)

less than 1.0%
at or below
rated min. RMS power
output

INTERMODULATION DISTORTION

(70Hz:7,000Hz=4:1 SMPTE method)

OVERALL (AUX to speaker terminals)

less than 1.0%
at rated min.
RMS power output

POWER BANDWIDTH*

40 to 20,000Hz at or below
rated min. RMS power
output and total harmonic
distortion

LOAD IMPEDANCES*

4 and 8 ohms

FREQUENCY RESPONSE (at 1 watt)

OVERALL (AUX to power output)

25 to 30,000Hz
+2.0dB, -3.0dB

RIAA CURVE DEVIATION (PHONO)

+1.5dB, -1.5dB
(30 to 15,000Hz)

DAMPING FACTOR

approximately 30 into 8 ohms
load

CHANNEL SEPARATION (at rated output 1,000Hz)

PHONO better than 45dB

AUX, TAPE better than 45dB

PREAMPLIFIER SECTION

Precise Phono Equalizer

More than the usual amount of negative feedback is applied in the high-gain 2-stage phono equalizer circuit to lower distortion and raise the signal-to-noise ratio. RIAA deviation is minimal, and the flat response and improved distortion performance characteristics are further assured by the constant-voltage supply system.

Control Center Versatility

The 221 handles a broad selection of music sources with ease. Its tone control and other audio features are precise, and the tape input/output facilities make tape recording and playback simple.

POWER AMPLIFIER SECTION

Clean Power Amplification

The stable and reliable semi-complementary power amplifier for both channels in the 221 is a packed hybrid IC incorporating four large output transistors for enhanced reliability and an improved signal-to-noise ratio. This time-

tested circuit delivers 8 watts per channel, min. RMS power, both channels driven, into 8 ohms over the 40 to 20,000Hz bandwidth with no more than 1.0% total harmonic distortion, more than enough to drive any home-sized speaker system.

Stable Power Supply

Reliable and low-distortion performance is assured by the large power transformer for a well-regulated power supply. Your speakers and the drive circuit are protected from power-related mishaps by quick-acting fuses.

OTHER FEATURES

- LOUDNESS boosts high and low frequency levels during low-volume listening.
- MODE button selects MONO or STEREO output.
- DUAL FM ANTENNA TERMINALS are used to connect external FM antenna (300-ohm or 75-ohm) leads.
- TWO AC OUTLETS (one "switched").

IHF HUM and NOISE

PHONO better than 70dB

AUX better than 80dB

INPUT SENSITIVITY and IMPEDANCE

(at rated output 1,000Hz)

PHONO 2.5mV (50k ohms)

Max. input capability 120mV RMS

(THD: less than 0.5%)

AUX 150mV (50k ohms)

TAPE MONITOR (PIN) 150mV (50k ohms)

TAPE MONITOR (DIN) 150mV (50k ohms)

OUTPUT LEVEL

TAPE REC (PIN) 150mV

TAPE REC (DIN) 30mV

TOE CONTROLS

BASS +12dB, -12dB at 50Hz

TREBLE +10dB, -10dB at 10,000Hz

LOUDNESS +10dB at 50Hz, +8dB

at 10,000Hz

TUNER SECTION

FM SECTION

TUNING RANGE 88 to 108MHz

SENSITIVITY (IHF) 2.5μV

(DIN) 1.3μV

TOTAL HARMONIC DISTORTION

MONO less than 0.8%

STEREO less than 1.0%

SIGNAL TO NOISE RATIO

better than 65dB

better than 60dB

better than 1.5dB

SELECTIVITY

better than 50dB at 98MHz

better than 70dB at 98MHz

better than 70dB at 98MHz

SPURIOUS RADIATION

less than 34dB

STEREO SEPARATION

better than 35dB at 1,000Hz

FREQUENCY RESPONSE

30 to 12,000Hz +1dB, -3dB

ANTENNA INPUT IMPEDANCE

300 ohms balanced,

75 ohms unbalanced

AM SECTION

TUNING RANGE 535 to 1,605kHz

SENSITIVITY (Bar Antenna)

50dB/m at 1,000kHz

SELECTIVITY (±10kHz)

better than 40dB at 1,000kHz

IMAGE FREQUENCY REJECTION

better than 80dB/m at

at 1,000kHz

better than 80dB/m

at 1,000kHz

IF REJECTION

better than 80dB/m

at 1,000kHz

SEMICONDUCTORS

21 Transistors, 1 FET,

12 Diodes, 1 Zener Diode,

2 ICs, 1 LED

POWER REQUIREMENTS

POWER VOLTAGE 120, 220, 240V, 50/60Hz

POWER CONSUMPTION

Maximum 75 watts

Rated 45 watts

DIMENSIONS

424mm (16 5/8") W

125mm (4 15/16") H

266mm (10 1/2") D

5.3kg (11.7lbs) Net

6.7kg (14.8lbs) Packed

WEIGHT

*Power specifications measured pursuant to US

Federal Trade Commission trade regulation on

power output claims for amplifiers.

Design and specifications subject to change without

notice for improvements.

SANSUI 221

FM/AM STEREO RECEIVER



Sansui has created this fully high fidelity FM/AM stereo receiver for adolescents whose fast-growing taste for music exceeds their ability to afford expensive equipment.

The 221 is free of infrequently-used decorative features and frills. But it's not short on Sansui's guaranteed high quality in musical sound and dependability.

The simple panel design includes a

tuning panel which extends to the very top edge for increased convenience. This unusual-looking receiver thus blends easily into even the most up-to-the-minute room decor.

Inside, the circuits are a marvel of simplicity. Sansui's sophisticated electronics are custom-made for stability and best performance. The 221 thus out-performs most of the competition in this attractive

price range.

Connect a turntable and a pair of speakers, turn on the power, adjust a few simple controls (not ten or fifteen like other receivers) and sit back to enjoy the famous Sansui sound of music—be it rock, soul, jazz or whatever you dig.

The 221 stereo receiver—low in price and high in musical quality. From Sansui, where it's all hi-fi.

Sansui