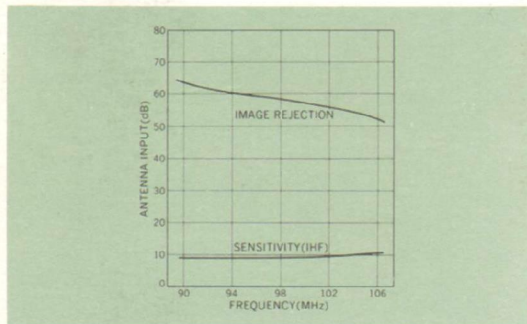


FM TUNER SECTION

DUAL-GATED MOS FET-EQUIPPED FM FRONTEND: The FM RF amplifier is equipped with an advanced dual-gated MOS FET (field effect transistor) and a super-precision 3-gang linear variable capacitor, to offer exceptional intermodulation distortion and image ratio characteristics. These also raise the FM sensitivity to a strain-free $2.8\mu\text{V}$ (IHF), enabling the receiver to offer steady, FM stereo reception even in fringe signal areas.



EXPENSIVE FM IF AMPLIFIER: Combining a two-stage four-resonator ceramic filter and an IC (integrated circuit) limiter, the FM IF amplifier provides ideal IF amplifier characteristics. Such as selectivity of better than 45dB, S/N ratio of better than 60dB and an exceptional 3dB (IHF) for the capture ratio, the one reliable yardstick in measuring FM receiving performance.

WIDE DIAL WITH NEW LINEAR FM SCALE: Use of a super-precision frequency-linear type 3-gang variable capacitor made possible equipping the receiver with a linear FM scale evenly graduated from 88 to 108MHz.

HIGHLY RELIABLE, STABLE MULTIPLEX CIRCUIT: The FM multiplex circuit employs a long-life adjustment-free molded coil which will not deteriorate in performance.

STABILIZED POWER SUPPLY CIRCUIT: The entire tuner section derives power from a stabilized power supply circuit, keeping distortion to a minimum. It no longer needs an FM AFC (automatic frequency control) circuit.

SPECIFICATIONS:

AUDIO SECTION

POWER OUTPUT

Music Power (IHF)	44W at 4Ω load 36W at 8Ω load 18/18W at 4Ω load 15/15W at 8Ω load
Continuous Power	

TOTAL HARMONIC DISTORTION

less than 1% at rated output

POWER BANDWIDTH (IHF)

25 to 25,000Hz

FREQUENCY RESPONSE

(at normal listening level)

AUX (over all)

30 to 35,000Hz $\pm 2\text{dB}$

CHANNEL SEPARATION

(at rated output, 1,000Hz)

PHONO

better than 50dB

AUX

better than 55dB

HUM AND NOISE (IHF)

better than 70dB

PHONO

better than 75dB

AUX

(at rated output, 1,000Hz)

INPUT SENSITIVITY

3mV (50kΩ)

PHONO

180mV (100KΩ)

AUX

180mV (100KΩ)

TAPE MON (pin)

180mV (100KΩ)

TAPE RECORDER (DIN)

180mV (100KΩ)

RECORDING OUTPUT

(at rated output, 1,000Hz)

TAPE REC (pin)

180mV

TAPE RECORDER

30mV

LARGE TUNING METER: The 310 comes with a large signal-strength meter to facilitate precise tuning.

OTHER FEATURES: The 310 also offers in its FM tuner section: an FM stereo indicator, automatic FM stereo/mono switching, and an FM multiplex noise canceler.

AM TUNER SECTION

CERAMIC FILTER-EQUIPPED AM IF AMPLIFIER: The AM IF amplifier offers exceptionally good sensitivity and selectivity thanks to a two-resonator ceramic filter and a large built-in ferrite bar antenna.

AGC CIRCUIT: An AGC (automatic gain control) permits pleasant AM reception in both strong and weak signal areas.

AMPLIFIER SECTION

LOW NOISE EQUALIZER AMPLIFIER: Constructed of carefully selected low-noise silicon transistors, the equalizer amplifier reduces noise to absolutely negligible levels and also expands the dynamic range of reproduced sound. Pianissimo notes are now more transparent than ever.

PIN JACK AND DIN TAPE MONITOR CIRCUIT: A tape monitor circuit, complete with both pin jack and DIN connector socket terminals, provides for the connection of a tape deck or a 4-channel rear amplifier such as the Sansui QS-100 or QS-500, making it possible to enjoy tape recording and playback or the latest 4-channel stereo music.

LOAD IMPEDANCE EQUALIZER PHONO DAMPING FACTOR CONTROLS

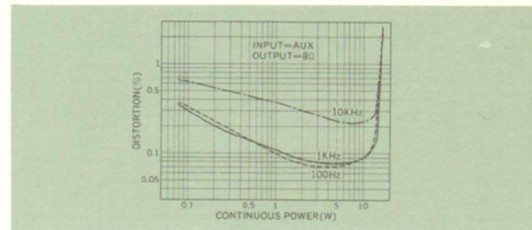
BASS	+12dB-12dB at 50Hz
TREBLE	+12dB-12dB at 10,000Hz
LOUDNESS	+8dB at 50Hz, +3dB at 10,000Hz (Volume Control at -30dB)

TUNER SECTION

FM:

TUNING RANGE	88 to 108MHz
SENSITIVITY	
(20dB quieting)	2.3 μV
(IHF)	2.8 μV
TOTAL HARMONIC DISTORTION	less than 1%
SIGNAL TO NOISE RATIO	better than 60dB
SELECTIVITY	better than 45dB
CAPTURE RATIO (IHF)	3dB
IMAGE FREQUENCY REJECTION	better than 50dB at 98MHz
SPURIOUS RADIATION	less than 34dB
FM STEREO SEPARATION	better than 35dB
ANTENNA INPUT IMPEDANCE	300Ω balanced 75Ω unbalanced

BIG-POWER OUTPUT CIRCUIT: The power amplifier features an advanced semi-complementary SEPP-ITL-OTL circuit system employing quality silicon power transistors. It delivers such outstanding characteristics as a music power output of 44 watts (into 4Ω), continuous power output of 15 watts per channel (into 8Ω), total harmonic distortion of 1% or less, and power bandwidth of 25 to 25,000Hz.



COMPLETE POWER TRANSISTOR PROTECTION: The important power transistors are completely protected by a protection circuit employing quick-action fuses.

CONNECTS TWO PAIRS OF SPEAKER SYSTEMS: The 310 connects two pairs of speaker systems, and its Speaker Selector permits hearing either or both pairs.

OTHER FEATURES: Also included are: a, loudness control to compensate for apparent loss of bass and treble notes at low listening levels, a stereo/mono switch, separate bass and treble tone controls, a stereo headphone jack, an AUX input circuit, an AC outlet, and a walnut-grained cabinet.

AM:

TUNING RANGE	535 to 1,605KHz
SENSITIVITY	180 $\mu\text{V}/\text{m}$ at 1,000Hz
SELECTIVITY	better than 40dB
IMAGE FREQUENCY REJECTION	better than 60dB

GENERAL

SWITCHES

TAPE MONITOR SELECTOR	SOURCE, PLAY BACK
LOUDNESS	PHONO, FM-AUTO, AM, AUX
MODE	OFF, ON
MPX NOISE CANCELER	STEREO, MONO
POWER/SPEAKERS	OFF, ON
SEMICONDUCTORS	Power OFF, SYSTEM A, SYSTEM B, SYSTEM A+B
POWER REQUIREMENTS	Transistors; 35, FET; 1, Diodes; 24, IC; 1

POWER VOLTAGE

100, 117, 220, 240V

POWER CONSUMPTION DIMENSIONS

245VA (max. signal)
435mm (17 $\frac{3}{8}$ ")W
125mm (4 $\frac{1}{8}$ ")H
280mm (11 $\frac{1}{8}$ ")D
7.6kg (16.8 lbs.)

WEIGHT

Design and specifications subject to change without notice for improvements.

SANSUI 310



AM/FM MULTIPLEX STEREO RECEIVER For those whose power requirements are limited, but whose performance standards are uncompromisingly high, Sansui takes pride in introducing the new 44 watt 310 AM/FM Stereo receiver, a component engineered to outperform any other make of comparable power and price. Bar none. Other makers economize by cutting back on fancy circuitry and extra features in their lower priced models. Not Sansui. The new 310 is equipped with costly dual-gated MOS FETs in its ultra-sensitive FM frontend, incorporates an expensive FM IF amplifier, a linear FM scale on a new wide dial, and all those helpful little features that distinguish all Sansui receivers, including an FM

stereo indicator, automatic FM stereo/mono switching, and an FM Multiplex noise canceler to eliminate interstation noise on the FM band. It is endowed with a wide 25 to 25,000Hz power bandwidth and limits distortion to a mere 1% or less. Having put so much into the receiver to give it this uncommon capability, Sansui could not very well then let it go with a common appearance. So true to Sansui form, it has a handsome black dial panel, clean streamlined silver front panel and luxurious walnut-grained wooden cabinetry. And its 44 watts are as much as most people will ever need. The Sansui 310 stereo receiver, new and undisputed performance champion in its class.

Sansui

Empfangsteil

Empfangsbereiche: UKW 88-104 MHz/MW 535-1.605 kHz

Eingangsempfindlichkeit: mono bei 40 kHz Hub und einem

Signal Rauschspannungsabstand von 30 dB $2.8 \mu\text{V}$

Signal Rauschspannungsabstand (für $U_e = 1 \text{ mV}$ an 240 Ohm bezogen auf 40 kHz Hub und 1 kHz)
bei Monobetrieb $> 60 \text{ dB}$

Übersprechdämpfung: (bei $U_e = 1 \text{ mV}$ 40 kHz Hub und 1 kHz) 35dB

Trennschärfe: $> 45 \text{ dB}$ ($\pm 300 \text{ kHz}$)

ZF-Dämpfung: 55 dB

Spiegelfrequenzdämpfung: 50 dB

Gleichwellenselektion: 3 dB

Bandbreite: ZF-Verstärker 200 kHz, FM-Demodulator 600 kHz

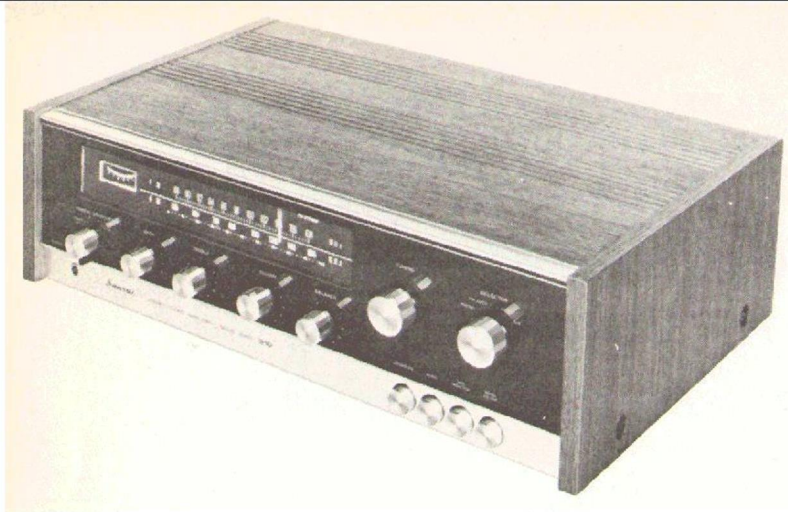
Abmessungen: 435x125x280 (BxHxT mm)

Gewicht: 7.6 kg

Unverbindlicher Richtpreis, incl. MwSt. 998.-DM

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Archiv Michael Otto
HiFi-Classic.de

RECEIVER



Hinterbandkontrolle

TECHNISCHE DATEN

Hersteller: SANSUI JAPAN

Empfänger, Vorverstärker und Kraftverstärker integriert
Verstärker

Bestückung: 36 Si-Transistoren, FET, 24 Dioden, 1 IC

Gleichrichter: Zweiweggleichrichter

Eingänge: Phono mag.: 3 mV/50 k Ω , Reserve (Aux) 180 mV/100 k Ω ,Bandwiedergabe 180 mV/100 k Ω

Bandaufnahme: CINCH 180 mV, DIN 30 mV

Monitor: 180 mV/100 k Ω

Phonoentzerrung: RIAA

Smusleistung:

2 x 15 W an 8 Ω

Musikleistung:

2 x 18 W an 8 Ω

Klirrgrad bei 1 kHz, Nennleistung und Aussteuerung beider Kanäle: < 0,4 %

Intermodulation 250 Hz/8000 Hz 4/1 bei Nennleistung: < 1 %

Frequenzgang über alles: 30-35.000 Hz $\pm$ 2 dB

Fremdspannungsabstand bez. auf Vollaussteuerung und vollaufgedrehtem Lautstärkeregler:

niederpegelige Eingänge 70 dB, hochpegelige Eingänge 75 dB

Ausgänge: Lautsprecher 2 für 4-16 Ω Kopfhörer: 1 für 8 Ω

Balance (Regelumfang): 0-Vollaussteuerung

Klangregler: (Regelumfang)

Bässe $\pm$ 12 dB bei 50 HzHöhen $\pm$ 12 dB bei 10 kHz