

4-CHANNEL RECEIVER **SANSUI QR1500**



QS REGULAR MATRIX
4-CHANNEL STEREO

SANSUI QR-1500 4-CHANNEL STEREO RECEIVER Sansui, the world's leading producer of quality 4-channel stereo systems and components, proudly introduces its newest creation, the QR-1500, a generously powered 4-channel receiver designed to bring the blessings of the new revolution in sound within the means of audiophiles everywhere. You can pay more for a 4-channel receiver, to be sure, but you'll not find one in this power and price range that's anywhere near as well equipped to exploit the new format. Here's what you get: A lusty 100 watts in power. The famed Sansui Synthesizer Decoder complete with unique phase shifter circuit (a necessary element in any authentic 4-channel stereo

matrix system). The capability to convert your present 2-channel stereo tapes, discs and FM stereo broadcasts into the 4-channel format, to reconvert encoded 4-channel material back into four channels, to enjoy regular 2-channel stereo reception should you so desire, and of course the capability to reproduce discrete 4-channel stereo programs. In addition to its 4-channel capability, the QR-1500 incorporates a super-sensitive FM tuner, the unique Synthesizer Decoder Function Control, black-out dial, dimensions almost as compact as a 2-channel receiver, and an expensive wooden cabinet.

Sansui

4-CHANNEL SYNTHESIZER DECODER SECTION

1 CONVERTS 2-CHANNEL SIGNALS TO 4-CHANNELS: The QR-1500's exclusive Sansui 4-Channel Synthesizer Decoder section, complete with a 4-channel synthesizing decoding matrix and phase shifter circuits, converts today's 2-channel tapes, discs and FM stereo broadcasts into the incredibly lively 4-channel format, and reconverts encoded 4-channel material back into four channels. The result in both cases is a remarkably close approximation of the sound field normally enjoyed only at live performances.

2 SPECIAL SANSUI ALL-ELECTRONIC CIRCUITRY: The 4-Channel Synthesizer Decoder Section of the QR-1500 is completely electronic, employing Sansui-developed circuit designs. No mechanical echo device which might impair the tonal quality of the original sound is used.

3 CONNECTS FOUR SPEAKER SYSTEMS: The four-amplifier QR-1500 is able to connect four speaker systems to reproduce the four channels of signals.

4 REPRODUCES DISCRETE 4-CHANNEL PROGRAMS: Pre-recorded discrete 4-channel tapes and other discrete 4-channel program sources can be reproduced with this receiver, thanks to its 4-channel AUX input terminals.

5 SYNTHESIZER SWITCH AND INDICATOR: With this aid you always know which function is engaged. Flip the front panel switch to convert 2-channel program sources to four channels, to reproduce discrete programs or to decode encoded 4-channel material back to four channels. The indicator tells you which you are using.

6 INDEPENDENT SLIDING VOLUME CONTROLS: Separate adjustment of the sound volume in the front and rear channels to hear your favorite selections with optimum front/rear volume balance can be made with these convenient front panel sliding controls.



7 VERSATILE MODE SWITCH: This device permits shifting the front channel sound to the rear or to either side to add a new dimension to 4-channel stereo sound enjoyment. You can, for example, "move" the vocalist from one side of the room to the other when you change your own seat.

POWER AMPLIFIERS SECTION

8 HIGH PERFORMANCE 100 WATT POWER AMPLIFIERS: The four power amplifiers in the QR-1500 all adopt a semi-complementary circuit design to realize such excellent output characteristics as a music power output of 100 watts (into 4Ω), continuous power output of 20 watts per channel (into 4Ω), power bandwidth of from 20 to 30,000Hz, and distortion factor of a mere 0.8%. They make the receiver suitable for use in the home or in business establishments.

PREAMPLIFIERS SECTION

9 LOW-DISTORTION PREAMPLIFIERS: Expensive low-noise silicon transistors are used in the QR-1500's four preamplifiers to ensure outstanding preamplifier performance. The tone control circuits in particular are equipped with high-performance negative-feedback type silicon transistors.

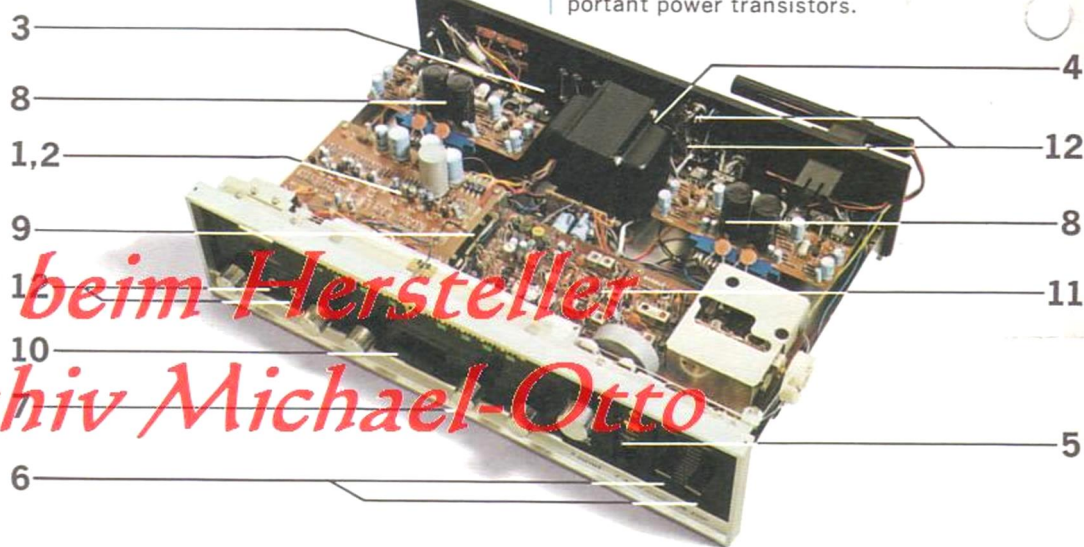
10 LOUDNESS SWITCH: At low volume levels, the human ear often fails to sense much of the low- and high-frequency sound, so that the reproduced sound seems to lack the "presence" that it should have. To compensate for this, the QR-1500 is equipped with a switch by which you can automatically raise the volume of these notes during low-volume listening.

TUNER SECTION

11 HIGH-PERFORMANCE FM TUNER: The FM stereo tuner in the QR-1500 is able to offer excellent sensitivity and superb selectivity thanks to its FM frontend, which combines a dual-gated MOS FET and a precision three-gang variable capacitor, and its FM IF amplifier which combines a 4-resonator ceramic filter and an IC.

GENERAL

12 OTHER FEATURES: The QR-1500 provides these other conveniences and features: a beautiful wooden cabinet; 4-Channel stereo headphone jacks for the front and rear channels, an auxiliary power socket controlled by the front panel power switch, Pin jack and DIN connector socket terminals for 2-channel tape monitoring, and four quick-acting fuses to protect the important power transistors.



SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT

MUSIC POWER (IHF)	100W (at 4Ω load)
	80W (at 8Ω load)
CONTINUOUS POWER	20W×4 (at 4Ω load)
	15W×4 (at 8Ω load)

TOTAL HARMONIC DISTORTION

less than 0.8% at rated output

INTERMODULATION DISTORTION

(60Hz: 7,000Hz=4:1

SMPTE method)

less than 0.8% at rated output

POWER BANDWIDTH (IHF)

20 to 30,000Hz at 8Ω load

FREQUENCY RESPONSE

(at normal listening level)

AUX 2-Channel Overall

30 to 30,000Hz ±2dB

CHANNEL SEPARATION

better than 50dB at 1,000Hz

rated output

HUM AND NOISE (IHF)

PHONO 60dB

AUX 70dB

INPUT SENSITIVITY

(at rated output, 1,000Hz)

PHONO (2-channel) 3mV (50kΩ)

AUX (2-channel) 180mV (50kΩ)

TAPE MON (pin) (2-channel)

180mV (50kΩ)

TAPE RECORDER (DIN) (2-channel)

180mV (50kΩ)

AUX (4-channel) 300mV (50kΩ)

RECORDING OUTPUT

(2-channel) (at rated output, 1,000Hz)

TAPE REC (pin) 180mV

TAPE RECORDER (DIN) 30mV

LOAD IMPEDANCE

4 to 16Ω

DAMPING FACTOR

more than 20 at 8Ω load

EQUALIZER

PHONO

TONE CONTROLS

BASS

TREBLE

LOUDNESS (volume control)

RIAA NF Type

(front channel only)

+10dB -10dB at 50Hz

+8dB -10dB at 10,000Hz

+8dB at 50Hz

+3dB at 10,000Hz

TUNER SECTION

FM

TUNING RANGE

88 to 108MHz

SENSITIVITY

20dB QUIETING

IHF 3μV

TOTAL HARMONIC DISTORTION

less than 1%

SIGNAL TO NOISE RATIO

better than 55dB

SELECTIVITY

better than 45dB

CAPTURE RATIO (IHF)

3dB

IMAGE FREQUENCY REJECTION

better than 50dB

IF REJECTION

better than 90dB

SPURIOUS RESPONSE REJECTION

better than 60dB

STEREO SEPARATION

better than 35dB at 400Hz

SPURIOUS RADIATION

less than 34dB

ANTENNA IMPEDANCE

300Ω balanced

75Ω unbalanced

AM

TUNING RANGE

535 to 1,605kHz

SENSITIVITY

200μV at 1,000kHz

(bar antenna)

IMAGE FREQUENCY REJECTION

better than 50dB

IF REJECTION

better than 70dB at 1,000kHz

SELECTIVITY

better than 30dB

CONTROLS

SELECTOR

PHONO, FM-AUTO, AM, (2CH), AUX (4CH)

DECODER

SYNTHESIZER, DECODER

TAPE MONITOR (2CH)

SOURCE, PLAY BACK

MODE 2CH

REAR, FRONT & REAR

NORMAL, RIGHT QUARTER

TURN, HALF TURN

OFF, ON

LOUDNESS

SYNTHESIZER SECTION

FREQUENCY RESPONSE

FRONT & REAR CHANNELS

20 to 20,000Hz ±1dB

REAR CHANNELS PHASE SHIFT

LEFT: 90 degrees at 300Hz

RIGHT: 90 degrees at 600Hz

GENERAL

OTHER SPECIAL FEATURES

Signal Strength Meter, Dual-gate MOS FET

Frontend, FM Mono/Stereo Automatic

Switching and Stereo Indicator, AM Ferrite

Bar Antenna, Stereo Headphone Jack

(front, rear), FM-IF: 4 Element Ceramic Filters.

AM-IF: 4 Element Ceramic Filters.

SEMICONDUCTORS

TRANSISTORS: 57 FET: 1 IC: 1 DIODES: 24

POWER REQUIREMENTS

POWER VOLTAGE 100, 117, 220, 240V 50/60Hz

POWER CONSUMPTION 180VA (max. signal)

130W

DIMENSIONS

480mm(18 1/2")W×132mm(5 1/4")H

×310mm(12 1/4")D

WEIGHT

9.0kg (19.8 lbs.)

Design and specifications subject to change without notice for improvements.

SANSUI ELECTRIC CO., LTD. 14-1, 2-CHOME, IZUMI, SUGINAMI-KU, TOKYO 168, JAPAN/TELEPHONE: 323-1111/TELEX: 232-2076
SANSUI ELECTRONICS CORPORATION 55-11 QUEENS BLVD. WOODSIDE, NEW YORK 11377, U.S.A./TELEX: NEW YORK 422633 SEC UI
SANSUI AUDIO EUROPE S.A. DIACEM BUILDING, VESTINGSTRAAT 53-55, 2000 ANTWERP, BELGIUM/TELEX: ANTWERP 33538

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