

SANSUI AU888



SOLID STATE CONTROL AMPLIFIER In the great precedent-setting tradition of the awesome 180 watt AU-999 Control Amplifier, comes this powerful new addition to the Sansui line, the AU-888. Offering a full-bodied 140 watts music power, this Solid State Control Amplifier is one of the most complete, most professional such components ever developed. Quite comparable to the top-of-the-line AU-999 in both performance and versatility, it incorporates every new advance that stereo

enthusiasts look for in a control amplifier. Sansui has endowed it with some very sophisticated circuitry, a wide 10 to 40,000Hz power bandwidth and the ability to keep distortion to a miniscule 0.4% or less. It also features a Triple Tone Control circuit that extends the operator's control to the very important midranges. All things considered, the Sansui AU-888 has to rank among the finest control amplifiers available today.

DIRECT-COUPLED POWER AMPLIFIER: The power amplifier section has direct-coupled a two-stage differential amplifier and a semi-complementary Darlington circuit. Stripped of conventional output capacitors, the AU-888 instead employs two—plus and minus—power supplies for its output stage. Since all stages are direct-coupled, negative feedback is uniformly applied throughout the entire audio frequency range and down through deep lows to D.C. This in turn has helped improve the amplifier's damping factor and output characteristic at very low frequencies, reducing intermodulation distortion to an unprecedentedly low level.

HIGH POWER OUTPUT: High power output—music power of 140 watts at 4 ohms, and continuous power of 50 watts per channel at 4 ohms and 45 watts per channel at 8 ohms—and low distortion—total harmonic distortion and intermodulation of less than 0.4% each—characterize the AU-888. Its power bandwidth stretches from 10 to 40,000Hz (8Ω). This means that sound is reproduced with ample reserve power from very low to very high frequencies.

LOW-NOISE PREAMPLIFIER SECTION: The use of carefully selected quality PNP silicon transistors in the preamplifier section results in an unprecedentedly low noise level, greatly improved transparency of the faintest pianissimo notes, and a substantially extended dynamic range.

NO ELECTROLYTIC COUPLING CAPACITORS: The AU-888 utilizes direct-coupled circuitry wherever possible. Where coupling capacitors are considered absolutely necessary, circuit impedance has been raised and Mylar capacitors have been employed for an improved frequency response at high frequencies.

PERFECT PROTECTION CIRCUIT: The AU-888 employs extra transistors exclusively for the purpose of temperature compensation, and incorporates a special 'differential amplifier stabilizing circuit' (patent pending) to stabilize its two-stage differential amplifier.

In addition, six quick-acting fuses are included to give the power transistors further protection in the unlikely event of an overcurrent. In addition a special speaker protection circuit employing an SCR has been newly adopted in the AU-888, so that your valuable speakers are protected in multiple ways.

SPECIFICATION

POWER AMPLIFIER SECTION

POWER OUTPUT

MUSIC POWER (IHF)	140W at 4Ω 100W at 8Ω
CONTINUOUS POWER	50/50W at 4Ω 45/45W at 8Ω

TOTAL HARMONIC DISTORTION

less than 0.4% at rated output

INTERMODULATION DISTORTION (60Hz: 7,000Hz =4:1 SMPTE method)

less than 0.4% at rated output

POWER BANDWIDTH (IHF) 10—40,000Hz at 8Ω

FREQUENCY RESPONSE (at normal listening level)

10—70,000Hz ±1dB

CHANNEL SEPARATION (at 1,000Hz, rated output)

better than 50dB

HUM AND NOISE (IHF)

better than 100dB

INPUT SENSITIVITY

1V for rated output

INPUT IMPEDANCE

50kΩ

LOAD IMPEDANCE

4—16Ω

DAMPING FACTOR

20 at 8Ω

PREAMPLIFIER SECTION

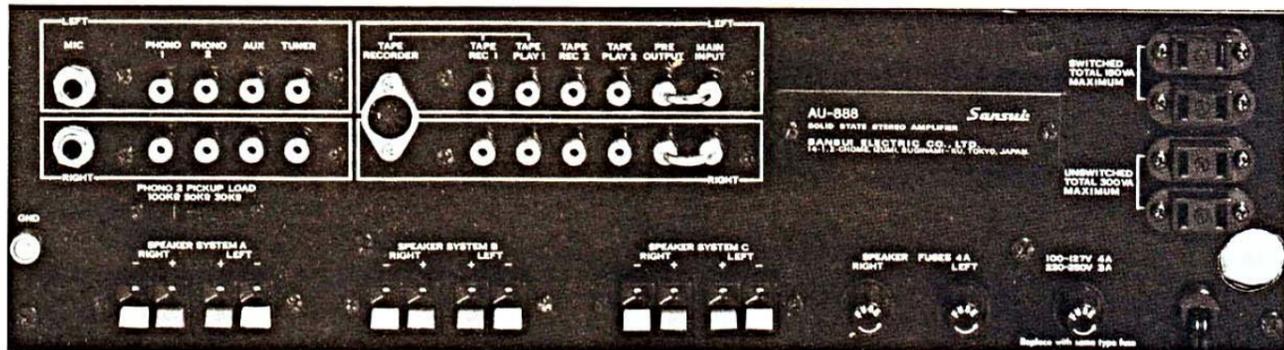
OUTPUT VOLTAGE

MAXIMUM OUTPUT VOLTAGE 4V

RATED OUTPUT VOLTAGE 1V

TOTAL HARMONIC DISTORTION

less than 0.1% at rated output voltage



TRIPLE TONE CONTROL SYSTEM: Based on the idea that variable equalizers are needed to enable truly accurate reproduction, Sansui has incorporated a triple tone control system in the AU-888 which makes use of a midrange tone control circuit in addition to the regular bass and treble circuits. It provides for more accurate compensation of the room acoustics and any irregularities in program sources.

SEPARABLE PRE- AND POWER AMPLIFIER SECTIONS: With the Speaker Selector set at the "C" position, the preamplifier and power amplifier sections of the AU-888 can be utilized separately to achieve an advanced electronic crossover stereo format in which separate power amplifiers drive the tweeter, midrange and woofer.

PERMITS USE OF TWO TAPE DECKS: Two tape decks can be connected to the AU-888. Recordings can be made by either, or by both at the same time, and monitored as they are made. A newly adopted TAPE-TO-TAPE REPRINT circuit permits a recorded tape to be reprinted from one tape deck to the other. And the amazing thing is, you can listen to a radio broadcast, a disc or any other program source while the re-printing is being accomplished.

POWERS THREE SETS OF SPEAKER SYSTEMS: The AU-888 is capable of connecting up to three sets of speaker systems, one of which can be employed in an electronic crossover stereo system, allowing comparisons to be made between regular stereo system and ECS system.

TONE SELECTOR FOR THE MIDRANGES: The midrange Tone Control is provided with a special Tone Selector circuit that permits defeating a particular tone control circuit or changing the vital control frequency between two

frequencies. Finer control of the midranges is now possible.

RIPPLE FILTER POWER SUPPLY CIRCUITS: The plus and minus power supplies of the power amplifier, as well as the power supply for the preamplifier, are all equipped with a separate ripple filter circuit, which completely shuts out detrimental hum and promotes true hi-fi reproduction. The result, of course, is completely stabilized power supplies.

TWO PHONOGRAPHS INPUTS: The AU-888 is equipped with two phonograph input circuits; PHONO-1 circuit has an input impedance of 50kΩ, while the input circuit of the PHONO-2 can be switched over among 30kΩ, 50kΩ and 100kΩ to match the load resistance, the cartridge or the operator's preference of timbre. Together, the two circuits permit comparing two cartridges or phonographs for better timbre or tonal quality.

COMPLETE ACCESSORY CIRCUITS: The AU-888 offers all the accessory circuits one would expect to find in a quality, advanced control amplifier:

- 1) DIN connector to simplify the connection of a tape recorder or deck.
- 2) Sharp cutting, negative feedback type high and low filter circuits.
- 3) Loudness control circuit.
- 4) Microphone input jack that accepts a standard phone plug.
- 5) Headphone jack for private listening.
- 6) Mode Selector control with STEREO-REV, STEREO-NORM, MONO-L+R, MONO-L, and MONO-R positions.
- 7) Foolproof, one-touch speaker output terminals.
- 8) Muting Switch which temporarily attenuates sound by 20dB.

FREQUENCY RESPONSE 15—50,000Hz +0.5dB
—1.5dB

HUM AND NOISE (IHF)
PHONO-1 AND 2 better than 80dB
MIC better than 80dB
TUNER AND AUX better than 85dB

INPUT SENSITIVITY
(at 1,000Hz, rated output voltage)
PHONO-1 2mV (50kΩ)
PHONO-2 2mV (30k, 50k, 100kΩ)
MIC 2mV (50kΩ)
TUNER 180mV (100kΩ)
AUX 180mV (100kΩ)
TAPE MON (pin) 180mV (100kΩ)
TAPE MON (DIN) 180mV (100kΩ)

RECORDING OUTPUT
TAPE REC (pin) 180mV
TAPE RECORDER (DIN) 30mV
EQUALIZER PHONO, MIC NF type

CONTROLS
BASS +12dB —8dB at 20Hz
MIDRANGE +5dB —5dB at 1,000Hz or
2,000Hz
TREBLE +12dB —8dB at 20,000Hz
TONE SELECTOR
MIDRANGE 1,000Hz/DEFEAT/2,000Hz
LOUDNESS +8dB at 50Hz
+3dB at 10,000Hz

SWITCHES
LOW FILTER —8dB at 50Hz
(12dB/oct, NF type)
HIGH FILTER —8dB at 10,000Hz
(12dB/oct, NF type)
MUTING —20dB
MODE STEREO-REV/STEREO-NORM/MONO-L+R/MONO-L/MONO-R
SOURCE SELECTOR MIC/PHONO-2/PHONO-1/TUNER/AUX
TAPE MONITOR PLAY BACK DECK-1/SOURCE/PLAY BACK DECK-2
TAPE TO TAPE REPRINT DECK-1 to 2/SOURCE RECORD/DECK-2 to 1
SPEAKER SELECTOR OFF/SYSTEM-A/SYSTEM-B/SYSTEM-A+B/SYSTEM-C

GENERAL SEMICONDUCTORS
Transistors: 41 Diodes: 12 SCR: 2

POWER REQUIREMENTS
POWER CONSUMPTION 400VA (max. signal)
POWER VOLTAGE 100/110/117/127/220V
240/250V, 50/60Hz
DIMENSIONS 148mm (5 7/8")H x 460mm
(18 1/8")W x 305mm (12 1/8")D
WEIGHT 7.2 kg (15.8 lbs.)