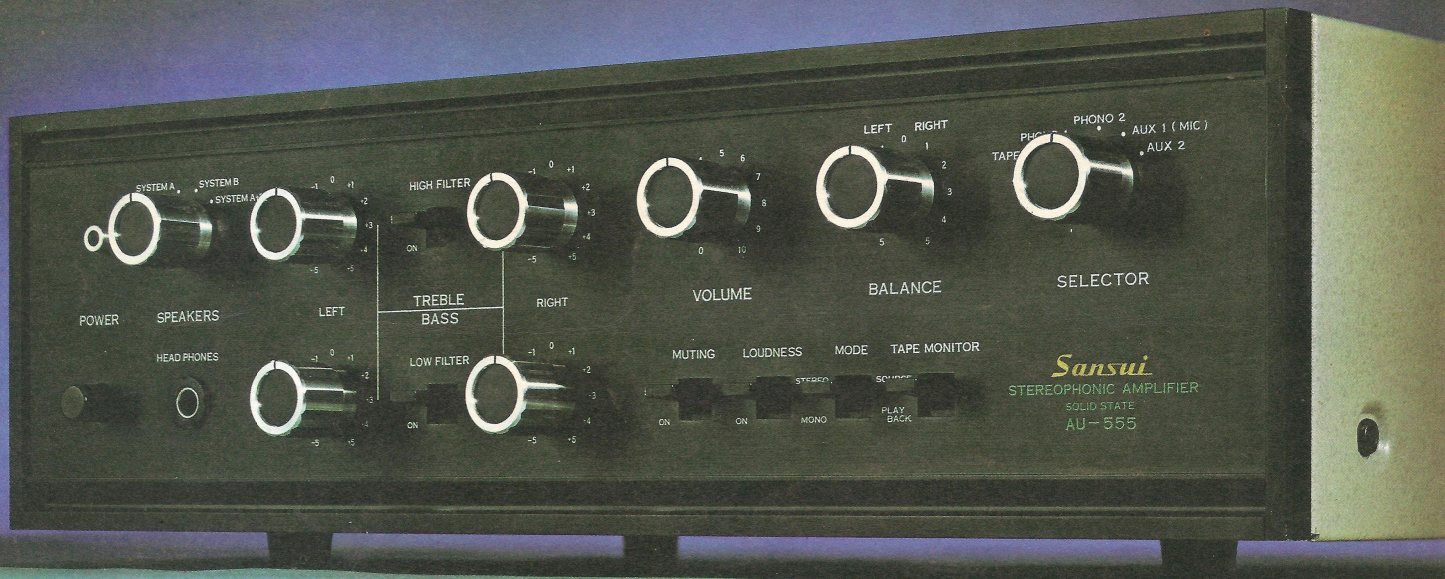


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*Sansui*  
**60 W**

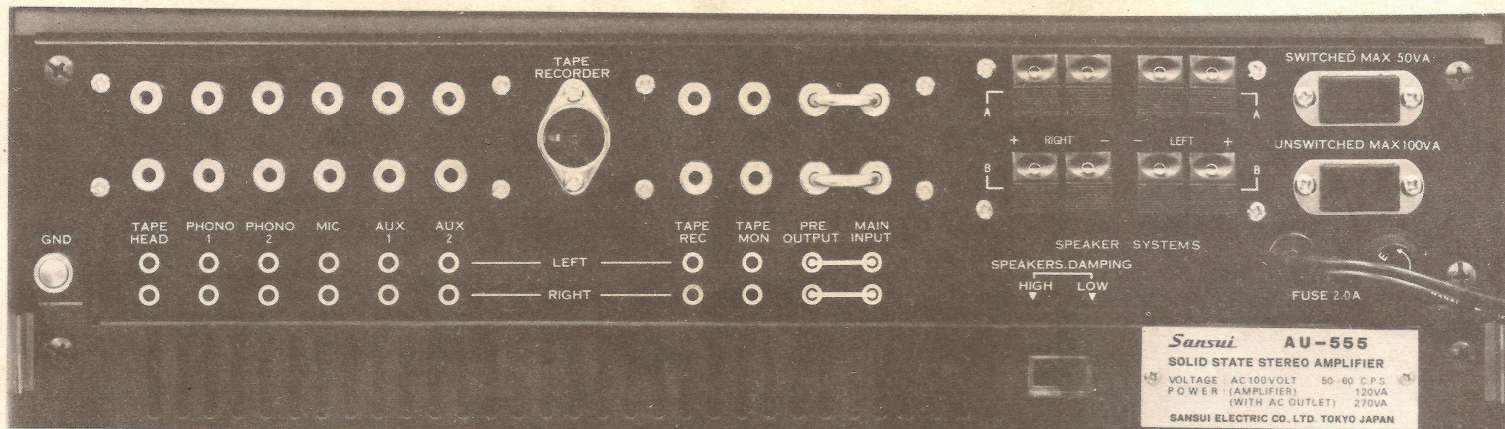
# AU555



**SOLID STATE CONTROL AMPLIFIER** In introducing the AU-555, Sansui sets still another "first" in its long list of audio innovations: the first time a truly professional control amplifier of Sansui quality has been available in the medium power and lower price range. The AU-555 incorporates many of the features of Sansui's larger AU series amplifiers, including an all silicon solid state design, professional arrangement of controls and an extruded black control panel. At the same time, it offers several distinctive features of its own. In performance, a total music power output of 60 watts, a power bandwidth from 20 to 30,000 Hz, and a distortion factor of only 0.5% are made possible by utilizing special SEPP-ITL-OTL circuitry. Pre- and main amplifier sections designed for independent usage, two adjustable speaker damping factors, a 4-position speaker selector switch, and four outputs and seven inputs give it almost unlimited versatility. These are only a few of the many features offered by the new AU-555—features that make it the first uncompromised control amplifier in the medium power range.

# SANSUI

Mer Sabosini 63-8101



**ALL SILICON SOLID-STATE DESIGN:** Silicon transistors in all stages of the amplifier assure lower distortion and a higher signal-to-noise ratio even at low power levels. They also provide greater stability against high temperatures. This results in a greater dynamic range for the highest standards of sound reproduction with excellent linearity.

**MOST ADVANCED CIRCUITRY:** The transformerless arrangement (SEPP-ITL-OTL) of a complementary Darlington circuit and the use of epitaxial silicon power transistors provide the music power of 60 watts, continuous power of 25/25 watts with less than 0.5% harmonic distortion and a power bandwidth of 20 to 30,000 Hz.

**NF-TYPE BASS AND TREBLE CONTROLS:** Expensive NF-type tone controls incorporate low-noise silicon transistors for minimum distortion (only 0.1%). These controls consist of two separate knobs each, one for each channel, for more minute adjustment.

**MATCHLESS APPEARANCE:** The extruded front panel, satin-black face, and professional control arrangement are inherent family features of Sansui's entire AU control amplifier series.

**ALL-PRINTED CIRCUIT:** Printed circuits in

all stages of the amplifier greatly improve the channel separation, stability and reliability of the AU-555.

**NEWLY-DEVELOPED POWER TRANSFORMER:** A new power transformer, designed and manufactured especially for transistors at Sansui's own factory, assures better power regulation without hum from the source.

**DAMPING FACTOR SELECTOR SWITCH:** A 2-position damping factor selector switch (HIGH 45 and LOW 12) allows matching the AU-555's damping factor with the characteristics of any speaker system.

**NEGATIVE FEEDBACK AMPLIFIER:** Negative feedback amplifiers are used in all stages from the first to the final for appreciable improvements in frequency response, signal-to-noise ratio and distortion. The main amplifier has a frequency response of 20 to 100,000 Hz  $\pm 1$  db. The preamplifier output has a distortion factor of less than 0.1% at the rated output voltage of 1 volt.

**DOUBLE PROTECTION FOR POWER TRANSISTORS:** Sansui's exclusive electronic protective devices prevent damage to the power transistors if an accidental short should occur. In addition, the AU-555 is equipped with quick-

acting fuses, which protect the power transistors in case of overloads.

**INDEPENDENT PRE- AND MAIN AMPLIFIERS:** Both pre- and main amplifier sections are designed to be used independently for more versatility.

**FOUR OUTPUTS AND SEVEN INPUTS:** The AU-555 is provided with all the outputs and inputs of the largest amplifiers: preamp, tape recording, and two speaker outputs, two phono, tape head, microphone and three other inputs.

**TWO PHONO INPUTS:** The AU-555 is provided with two PHONO inputs: PHONO 1 and 2 have the input impedance of 47 K $\Omega$  and 100 K $\Omega$  respectively. Either can be used depending on preference. Generally, a cartridge connected to the 47 K $\Omega$  input produces a soft and mild tone. Connected to the 100 K $\Omega$  input, it delivers tones with accented high frequencies.

**OTHER FEATURES:**

- Loudness control
- Tape monitor switch
- High and low filters
- Muting switch
- Headphone jack
- 4-position speaker selector switch
- Tape recording output

**SPECIFICATIONS**

**MAIN AMP. SECTION**

**POWER OUTPUT**

**MUSIC POWER (IHF):** 60w  $\pm 1$ db at 4 ohms  
50w  $\pm 1$ db at 8 ohms

**CONTINUOUS POWER (each chan.):**  
25/25w  $\pm 1$ db at 4 ohms  
20/20w  $\pm 1$ db at 8 ohms

**HARMONIC DISTORTION:** Less than 0.5% at rated output

**INTER MODULATION DISTORTION (60Hz; 7,000Hz=4:1):** Less than 0.8%

**POWER BANDWIDTH:** 20—30,000Hz at 8 ohms (0.5% distortion)

**FREQUENCY RESPONSE:** 20—80,000Hz  $\pm 1$ db (at normal listening level.)

**CHANNEL SEPARATION:** better than 50db

**HUM AND NOISE (IHF):** better than 100db

**INPUT SENSITIVITY:** 1V at rated output

**OUTPUT IMPEDANCE:** from 4 to 16 ohms

**DAMPING FACTOR:** 12 and 45 at 8 ohms load

**INPUT IMPEDANCE:** 100K ohms

**SPEAKER SELECTOR SWITCH:** 1) OFF 2) A 3) B 4) A+B

**PRE AMP. SECTION**

**OUTPUT VOLTAGE**

**MAXIMUM OUTPUT VOLTAGE:** 5V

**RATED OUTPUT VOLTAGE:** 1V

**HARMONIC DISTORTION:** Less than 0.1% at rated output voltage

**FREQUENCY RESPONSE:** 20—50,000Hz  $\pm 1$ db

**HUM AND NOISE (IHF) (at rated output voltage)**

Volume at minimum: better than 100db

Phono 1 and 2: better than 80db

Tape Head: better than 75db

Aux 1 and 2: better than 80db

**INPUT SENSITIVITY (for rated output at 1,000Hz)**

Phono-1: 2mV (47K ohms)

Phono-2: 2mV (100K ohms)

Tape Head (19cm/s): 1.5mV (200K ohms)

Aux-1: 200mV (100K ohms)

Aux-1 (Mic): 3.8mV (10K ohms)

Aux-2: 140mV (100K ohms)

Tape monitor: 150mV (100K ohms)

**RECORDING OUTPUT (at rated input):** 140mV

**CONTROLS AND SWITCHES**

**BASS CONTROL:** 20Hz  $\pm 16$ db

**TREBLE CONTROL:** 20,000Hz  $\pm 13$ db

**LOUDNESS CONTROL:** 50Hz +8db, 10,000Hz +2.5db (volume control at -30db)

30Hz, -12db

**LOW FILTER:** 20,000Hz -10db

**HIGH FILTER:** -20db

**MUTING SWITCH:**

**MODE SWITCH:** 1) STEREO 2) MONO (L+R)

**SELECTOR SWITCH:** 1) TAPE HEAD (19cm/sec)  
2) PHONO-1 3) PHONO-2  
4) AUX-1 (Mic) 5) AUX-2

**TAPE MONITOR SWITCH:** 1) SOURCE 2) PLAY BACK

**OTHER SPECIAL FEATURES**  
Direct tape monitor. Headphone jack.  
Muting switch. Main-amplifier input jack.  
Pre-amplifier output jack.  
DIN connector for tape recorder.  
Mic input (AUX-1). DF Control switch.

**TRANSISTORS AND DIODES**

Transistor: 22

Diode: 6

Thermistor: 4

S.C.R.: 1

**POWER REQUIREMENTS**

**POWER VOLTAGE:** 100V, 117V, 220V, 240V. 50-60Hz

**POWER CONSUMPTION:** 120VA (at max. signal)

**DIMENSIONS:**

**WIDTH:** 15"

**HEIGHT (Excluding rubber stand):** 4 3/8"

**DEPTH (Excluding Knob):** 10 1/8"

**WEIGHT:** 17.4 lbs.

Magnetic Head Phono

Sansui®

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