

SANSUI TU999



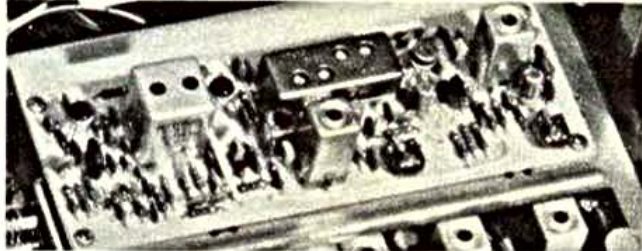
ALL-NEW AM FM SOLID STATE STEREO TUNER Here it is, the Sansui "someday" machine. Engineered and styled for the future. The one advanced audio enthusiasts meant when they talked about "someday." The all new Sansui TU-999 AM/FM Stereo Tuner. "Some day," people said a tuner would come along with advances like an FM frontend that combines a linear 4 gang capacitor and three FETs for extraordinary sensitivity. That's us. The TU-999. A tuner that employs such technical innovations as three ICs, a crystal filter and a block filter

to attain an ideal IF characteristic. That's us. A tuner with an FM AGC changeover switch, both 75- and 300-ohm antenna inputs, a wide dial linear FM scale and two output terminals. Someday, they said somebody will come out with a tuner like that. Hey! That's us. You're talking about our TU-999, designed for complete compatibility with the equally advanced AU-999 solid state Control Amplifier, but certain to improve the performance of any quality stereo system. (Wood case available at extra cost)

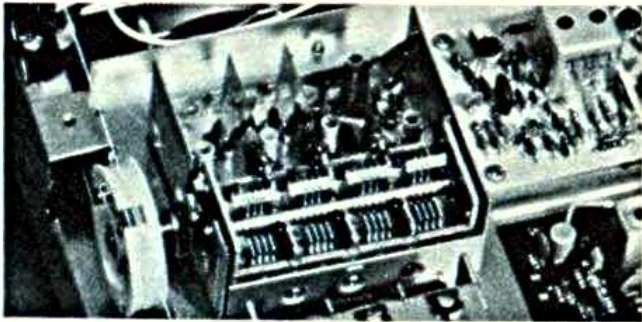
Sansui

TU999

FM IF Amplifier: By adopting three ICs, a crystal filter and a block filter, the TU-999 achieves an ideal IF characteristic far beyond what is possible through the use of a single crystal filter. The result is a greatly improved distortion factor, and equally better stereo separation and phase characteristics at high frequencies when the tuner is receiving stereo signals.

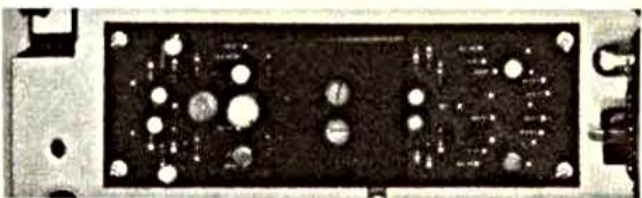


Advanced FM Frontend: Three low-noise MOS FETs are employed for the two RF stages and the mixer stage. Combined with a 4-gang variable capacitor, they ensure an exceptional sensitivity figure of $1.8\mu\text{V}$ (IHF), and result in a substantially improved intermodulation distortion factor as well as enhanced image and S/N ratios. Exceptionally steady hi-fi FM stereo reception even in remote areas is now a reality.

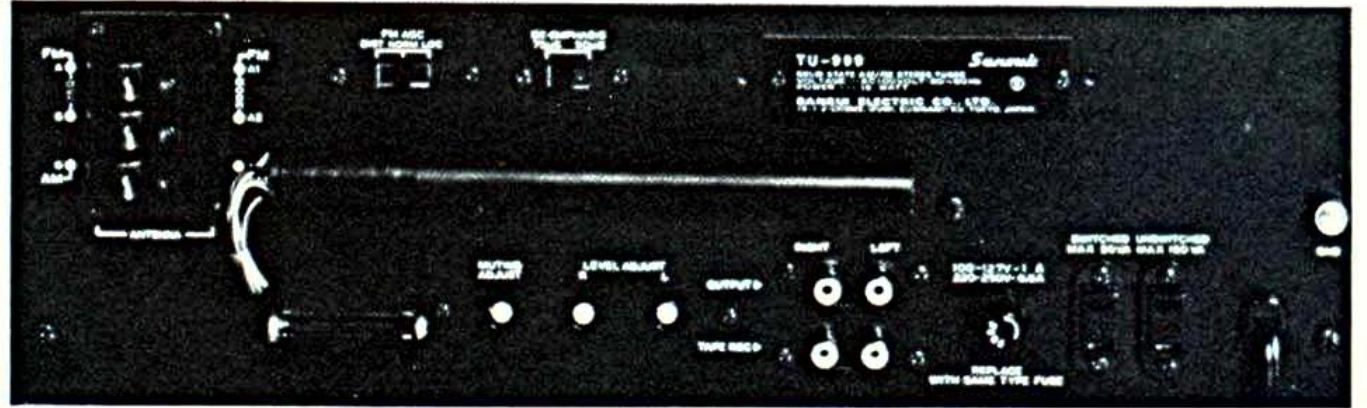


Double Meters Improve Tuning: A pair of meters aid in achieving precision tuning of FM signals with the TU-999. One indicates the strength of the signal being tuned in, the other facilitates center-of-the-channel tuning. Together they make tuning more precise and more distortion-free than ever before.

LC Type Filter for Reduced Distortion: The TU-999 adopts an LC type filter for the multiplex carrier leak filter. Endowed with a sharp cutoff characteristic, this filter completely prevents carrier leakage so that heat interference and consequent intermodulation distortion have been drastically reduced.



FM AGC Changeover Switch: This feature permits precise control of the FM AGC circuit for LOCAL, NORMAL and DISTANT stations to ensure quality, distortion-free FM reception regardless of how close or how



far away broadcasting stations might be. It also results in a very significant improvement in the S/N ratio when tuning to distant signals.



Stereo Only Switch: In addition to the Mode Selector which governs the choice of AM, FM, FM AUTO and FM STEREO modes, a Stereo Only Switch has been provided to permit tuning in FM stereo broadcasts exclusively.

Wide Dial and FM Linear Scale: The TU-999 features a horizontal wide dial and a frequency linear dial scale for the FM band where frequencies can be read out in steps of 200kHz. Tuning is easier and more precise.

Two Output Terminals: One of the TU-999's outputs is an amplifier output terminal for controlling output level between 0 and 2 volts with a Level Adjustor. The other is a recording output terminal whose level is fixed at 0.4 volts.

300 Ω and 75 Ω Antenna Input Terminals: Of the TU-999's two FM antenna input terminals, one is for a 300 balanced antenna while the other accepts a 75 unbalanced coaxial cable antenna suitable for long-distance reception or for reception in noise-filled areas.

Muting Level Adjustor: This special adjustor has been provided to control the working level of the muting circuit. It permits optimum muting action in different areas.

High Sensitivity AM Tuner Section: A large ferrite bar antenna and a 3-gang variable capacitor are employed in the AM tuner section to achieve a high sensitivity figure. The section also has exceptional capability in squelching interference.

Other Features:

- FM Stereo Indicator
- AM/FM Selector Indicator
- FM MPX Noise Canceler
- FM Muting Switch
- Automatic FM Stereo/Mono Switching
- 50 μs /75 μs FM De-emphasis Changeover Switch
- Illuminating Dial with Self-lighting Pointer

SPECIFICATIONS

FM SECTION

TUNING RANGE:	88—108MHz
SENSITIVITY:	
(20dB quieting)	1.4 μV
(IHF)	1.8 μV
TOTAL HARMONIC DISTORTION:	
	less than 0.3% (mono)
	less than 0.5% (stereo)
SIGNAL TO NOISE RATIO:	better than 65dB
SELECTIVITY:	better than 70dB
CAPTURE RATIO (IHF):	1.5dB
IMAGE FREQUENCY REJECTION:	
	better than 90dB
IF REJECTION:	better than 100dB
SPURIOUS RESPONSE REJECTION:	
	better than 100dB
STEREO SEPARATION:	better than 38dB at 400Hz
SPURIOUS RADIATION:	less than 34dB
ANTENNA INPUT IMPEDANCE:	
	300 Ω balanced,
	75 Ω unbalanced
AM SECTION	
TUNING RANGE:	535—1,605kHz
SENSITIVITY:	
(bar antenna)	150 μV at 1,000kHz
(IHF)	30 μV at 1,000kHz
IMAGE FREQUENCY REJECTION:	
	better than 80dB at 1,000kHz
SELECTIVITY:	better than 20dB at 1,000kHz

OUTPUT:

RATED OUTPUT VOLTAGE	0—2V
TAPE REC	0.4V

CONTROLS:

FM MUTING LEVEL
OUTPUT LEVEL

SWITCHES:

FM MUTING	ON/OFF
MPX NOISE CANCELER	OFF/ON
FM AGC	DISTANT / NORMAL / LOCAL
SELECTOR	AM / FM MONO / FM AUTO / FM STEREO

SEMICONDUCTORS:

Transistors—32, FET—3, IC—3, Zener Diodes—2, Diodes—22

POWER REQUIREMENTS:

POWER VOLTAGE	100, 110, 117, 127, 220, 230, 240 and 250V, 50/60Hz
POWER CONSUMPTION	19VA

DIMENSIONS:

155mm(6 $\frac{1}{8}$ "H) x 435mm (17 $\frac{1}{8}$ "W) x 316mm(12 $\frac{1}{2}$ "D)

WEIGHT:

10.1kg(22 lbs.)