

SANSUI SC2002

FRONT-LOADING STEREO CASSETTE DECK WITH DOLBY



Sansui's improved tape handling system for the SC-2002 preserves the advantages of the front-loading cassette deck format by positioning your tapes right-side up and keeping them vertical and fully visible at all times. Experience with more awkward systems will show you how important these advantages are. But even more important is the fact that this engineering care is extended to the electronics and actual performance

qualities of the deck as well. And here is where they really count.

Thanks to the precision, electronically-controlled drive mechanism, the SC-2002 offers unusually good wow/flutter and signal-to-noise specifications for a deck in its price range. And although it saves you money by excluding the more exotic features found on our SC-3003 and others, this model boasts a selectable equalizer for Normal (LH) and Chrome

(CrO₂) tapes, an IC-built Dolby noise reduction system* a separate output level control, full auto-stop operation, direct mode-change capabilities, Sansui's own independent capstan drive for precision tape performance, and more. Check out the details in the following pages and learn how the SC-2002 can make your audio world complete. From Sansui, where it's all hi-fi.

*Dolby is a trademark of Dolby Laboratories, Inc.

Sansui

SANSUI'S ALL NEW SC-2002— FULL TAPE-RUNNING VISIBILITY, IC-DOLBY AND FRONT-LOADING CONVENIENCE.

NEWLY-PERFECTED FRONT-LOAD FORMAT

FRONT-LOADING CONVENIENCE

The front-loading design of the SC-2002 lets you stack it under or over other components in your stereo system, saving space and handling time. But unlike most front-loaders on the market today, the SC-2002 has a tape handling system that lets you slip in a cassette *right-side up* (tape side down) with one hand to avoid confusion. The tape is locked in place for operation in a vertical position, and is always fully visible so that you may check tape travel, read labels, etc. A new fail-safe insertion mechanism, developed by Sansui (Pat. Pending), prevents damaging misuse, and a built-in tape compartment light further aids tape handling.



REMOVABLE COMPARTMENT LID

The sturdy metal and plastic lid of the tape compartment can easily be removed, giving you plenty of room for head maintenance.

SOLID, DEPENDABLE MECHANISM

ELECTRONIC DC SERVOMOTOR

This highly dependable DC motor features high torque performance and long life. It is governed by a special electronic system for constant speed regulation regardless of changes in voltage supply or tape loads.



INDEPENDENT CAPSTAN DRIVE

Sansui's special design separates the capstan drive from the reel drive. The former has a high-inertia flywheel to keep capstan rotation smooth and even. The system also prevents capstan torque from affecting tape speed when

loads vary. Very low wow/flutter performance (0.1%) is assured with the use of a mirror-finished, slip-free drive belt of perfect flatness.

FULL AUTO-STOP/SHUT-OFF

An electronic magnet/reed switch mechanism senses tape motion and immediately disengages the drive motor and returns all operating levers to the STOP position when your tape reaches either end.

SUPER-HARD PERMALLOY HEAD

Sansui uses this special recording/playback head of super-hard permalloy material because it resists wear longer (up to ten times longer, in fact) than conventional permalloy types yet retains the permalloy advantages of low distortion and high musical performance quality.





FEATURES FOR BETTER SOUND

IC-BUILT DOLBY CIRCUIT

Because the Dolby Type B noise reduction circuitry in the SC-2002 is constructed around an IC of the latest design, you never need adjust it. (For more about this newest Dolby, please see Page 4.)

DIRECT-CHANGE MODE LEVERS

A fail-safe mechanism inside makes it possible to go from any mode to any other (i.e. REWIND to PLAY, PLAY to F-FORWARD, etc.) without going through STOP and without stress on delicate machinery.

OUTPUT LEVEL CONTROL

Since the recorded levels of music tapes vary widely, this handy feature can help you adjust the deck's overall signal output to better match the level of other components such as the tuner and turntable when you are playing tapes recorded with too-low or too-high levels. It's also useful when copying cassettes to other decks.

INDEPENDENT LEFT/RIGHT RECORDING LEVEL CONTROLS

These friction-coupled, rotary-type level controls give you the freedom and flexibility demanded by professional audio engineers. They control both the Line and Microphone input circuits (although no mixing is possible).

WIDE DYNAMIC RANGE MIC CIRCUITS

The two (left/right) microphone input

jacks on the front panel connect to two mic amplifier circuits using two low-noise transistors each. These circuits feature a high signal-to-noise ratio and wide dynamic range, and accept up to +40dB peak level inputs without overloading.

RESPONSIVE VU METERS

The large and well-damped VU-type level meters on the SC-2002 are driven by an exclusive 2-transistor amplifier and show input and output levels accurately in the range of -20dB to +3dB.

LED MODE INDICATORS

Bright LED (Light-Emitting Diode) indicators are provided on the front panel to show you when the deck is in the recording mode and when the Dolby noise reduction system is on line.

SELECTABLE EQ FOR NORMAL/CrO₂

The equalizer amplifier in the SC-2002 is built around a 2-stage NF (Negative Feedback) circuit for stable and distortion-free performance. The TAPE SELECTOR switch on the front panel can be moved to the CHROMIUM position to switch the equalizer's values to the new time constant of 3180/70 μ s to take advantage of newly-formulated ferri-chrome as well as chromium dioxide tapes. Distortion is further reduced and dynamic range extended for clean hi-fi recordings. (See the chart below.)

RECOMMENDED EQUALIZATION BY BRAND AND TYPE

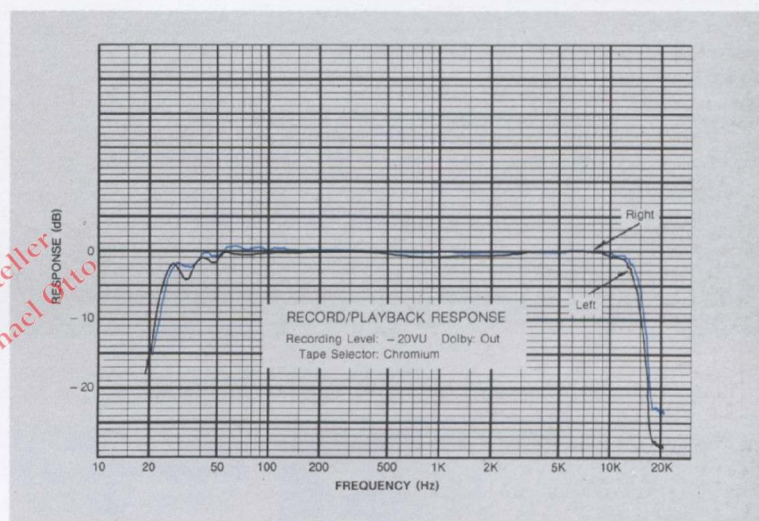
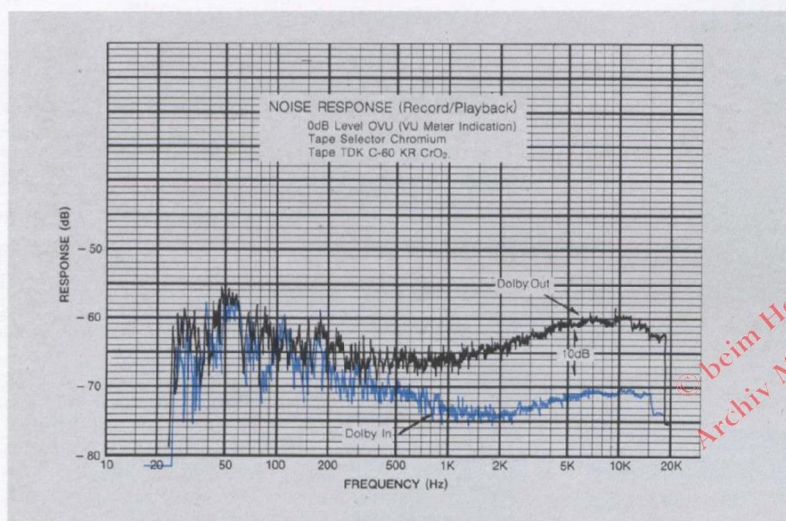
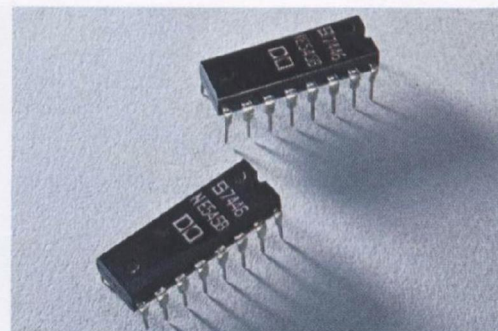
BRAND \ POSITION	NORMAL (LH)	CHROMIUM	NORMAL (LH) for Recording CHROMIUM for Playback
AGFA	C-60, C-90 SUPER C-60 +6 SUPER C-90 +6	CHROMDIOXIDE C-60 CHROMDIOXIDE C-90	
BASF	C-60, C-90 (LH) C-60, C-90 (LN)	CHROMDIOXIDE C-60 CHROMDIOXIDE C-90	
FUJI	C-60, C-90 (FL) C-60, C-90 (FX)	C-60 (FC) C-90 (FC)	
MAXELL	C-60, C-90 (LN) C-60, C-90 (UD) C-60, C-90 (UD-XL)	CHROME DIOXIDE C-60 (CR) CHROME DIOXIDE C-90 (CR)	
MEMOREX	C-60 C-90	CHROMIUM DIOXIDE C-60 CHROMIUM DIOXIDE C-90	
SCOTCH	C-60, C-90 (LD) C-60, C-90 (LH)		CLASSIC C-60 CLASSIC C-90
SONY	C-60, C-90 (LOW NOISE) C-60, C-90 (HF)	C-60 CR C-90 CR	DUAD C-60 DUAD C-90
TDK	DC-60, DC-90 C-60, C-90 (SD) C-60, C-90 (ED)	KR C-60 KR C-90 SA C-60 SA C-90	

NEW DOLBY TYPE-B ENDS ALL TAPE NOISE—YOUR EARS WILL SENSE THE IMPROVEMENT.

In addition to its superior tape drive system and high quality electronics which reduce wow and flutter and improve overall signal-to-noise, the Sansui SC-2002 features a dependable Dolby (Type-B)* Noise Reduction System formed around an IC. With the Dolby circuit engaged (by means of a front-panel switch), recordings can be made from any source which, on playback, exhibit a drastically reduced tape hiss and noise content. The reduction of such

unwanted noise is 10dB—a difference you can easily hear—and it works for quieter, clearer response on all types of cassette tapes.

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SPECIFICATIONS

TRACK	4 Track (2-Channel) Record/Playback	SIGNAL TO NOISE RATIO (RECORD/PLAYBACK)		DIN	300mV (output Control max. Imp. 100k ohms)
TAPE SPEED	4.8cm/sec (1 7/8 ips)	CHROMIUM		BIAS FREQUENCY	85kHz
HEADS	REC/PB Head (Super Hard Permalloy) Erase Head (Ferrite)	without DOLBY	Better than 50dB (Weighted)	OTHER FEATURE	DIN Socket
MOTOR	Electronically Controlled DC Motor within 0.1% (WRMS)	with DOLBY	Better than 60dB (Above 5kHz)	POWER REQUIREMENTS	
WOW & FLUTTER	Approximately 75 seconds (C-60)	ERASURE FACTOR	More than 60dB (1kHz)	VOLTAGE	100, 120, 220, 240V (50/60Hz)
FAST WIND TIME		INPUT SENSITIVITY AND IMPEDANCE (OVU, 1kHz)		CONSUMPTION	12.5 Watts (Rated) 14.5 Watts (Max.)
FREQUENCY RESPONSE (RECORD/PLAYBACK)		MIC (LEFT, RIGHT)	0.5mV 600ohms— 10k ohms	SEMICONDUCTORS	23 Transistors, 2 ICs 16 Diodes, 2 LEDs
NORMAL TAPE (LH)	30 to 13,000Hz 35 to 11,000Hz ±3dB	LINE DIN	70mV 100k ohms 14mV 90k ohms	DIMENSIONS	440mm (18 3/8") W 290mm (11 1/8") D 158mm (6 1/4") H
CHROMIUM TAPE	30 to 15,000Hz 35 to 12,000Hz ±3dB	OUTPUT LEVEL (OVU, 1kHz=160pwb/mm)		WEIGHT	8kg (17.6 lbs) Net 10kg (22.0 lbs) Packed
		LINE	300mV (output Control max. Imp. 100k ohms)		

Design and specifications subject to change without notice for improvements.