

YAMAHA TC511S

Vertical format stereo cassette tape deck. Low 0.07% wrms wow and flutter. High signal-to-noise ratio and low distortion. Dolby noise reduction. Super-permalloy heads. Provision for absent recording with timer.



FAITHFUL REFLECTION



OUTSTANDING REPRODUCTION OF EVERY MUSICAL NUANCE, THANKS TO A WIDE RANGE OF PERFORMANCE AND CONVENIENCE FEATURES.

EASY TO USE — FOR GOOD RESULTS FROM THE START

Convenient Vertical Format

The TC-511S not only sounds like a first class audio component, it looks like one too, stacking conveniently on—or under—your amplifier, receiver or tuner. Controls are on the front panel for easy access—complemented by the fast, easy front-loading configuration. Even the microphone jacks are on the front.

Safe, Interlocked Controls with Fully Automatic Cut-Off

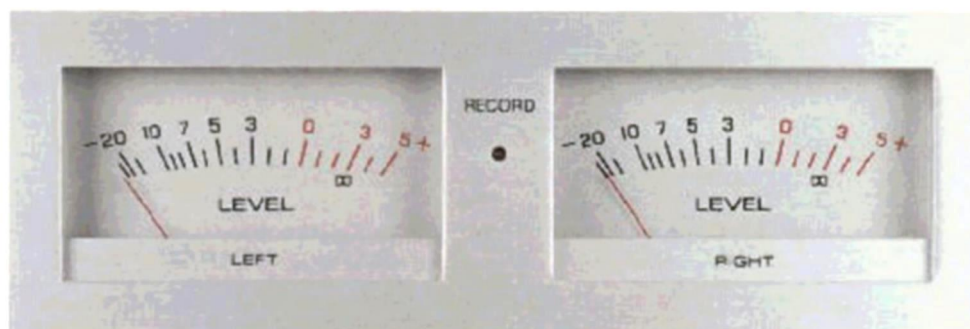
Smooth and positive in normal operation, the lever-type controls lock if pressed in a sequence that might harm the tape or your recording. And the TC-511S switches itself off at the end of the tape, in all operating modes.

Concentric Friction-Linked L/R Recording Level Controls

Level setting is simple with these twin knobs. Adjust them separately for perfect stereo balance, and turn them together for smooth, balanced fade-in and fade-out techniques.

Large Illuminated VU Meters

Separate meters for L- and R-hand channels give accurate indications of overall recording level, helping even a first-timer to get the best signal levels, and ensuring low distortion with good signal-to-noise ratio.



MECHANICAL PRECISION AND AUDIO EXCELLENCE

Double-Belt Drive and Ultra-High Precision Capstan

To keep tape speed rock steady, so that recordings are unspoiled by the false trills and tremolos of wow and flutter, the tape drive mechanism has a capstan/bearing assembly finished to amazing 0.1 micron tolerances, and separate belts for capstan and take-up spool.

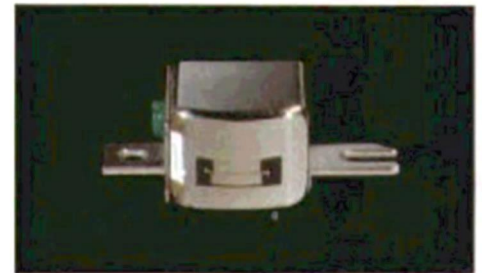
What 0.07% Wow and Flutter Means for Your Audio Pleasure

The combination of high torque DC motor, mechanical precision, and a powerful flywheel smoothing effect, means a level of wow and flutter so low that even sustained piano chords (severest test of a tape deck) will sound out pure and true.

SOPHISTICATED ELECTRONICS AND ADVANCED MATERIALS

Clean, Low Distortion Recording/Playback Amplifier

The Yamaha equalizer amplifier has a lot to do with the outstandingly good S/N ratio, and uses a specially developed low noise ultra-linear integrated circuit for long term performance unaffected by temperature or humidity, and unimpaired reliability. Amplifier distortion is right at the lower measuring limits for high grade test instruments. Combined with the high performance of the TC-511S permalloy head, the result is an overall distortion figure of only 1.5%, including both recording and playback.



Super-Hard Permalloy Head

The specially profiled contour-effect recording/playback head in the TC-511S is one secret of the extremely high performance. Preserving the excellent signal-to-noise and wide dynamic range of conventional permalloy, but with much higher resistance to wear, it promises the long service life of ferrite without its disadvantages.

Head Material	Distortion	Frictional Wear	Signal-to-noise	Dynamic Range
Conventional Permalloy	+	-	+	+
Conventional Ferrite	±	++	-	-
Super-Hard Permalloy	+	+	+	+

The number of plus factors for the new super-hard permalloy makes it an ideal choice for the TC-511S.

Dolby* Noise Reduction System



The Dolby system cuts tape hiss-noise for clear, beautiful music performance in the quietest passages. Even without using the Dolby circuit, the TC-511S boasts a full 53 dB signal-to-noise ratio. But with the Dolby switch on, there is a further 8 dB increase at frequencies above 5 kHz.

*Dolby is a trademark of Dolby Laboratories, Inc.

FEATURES TO INCREASE YOUR AUDIO ENJOYMENT

Equally Suitable for All Types of Tapes

A three-way tape selector switch makes sure that whatever type of tape you choose to use (LH, Chrome, or Ferrichrome) you will get the best possible results, with carefully chosen optimum bias and equalization.

Ready for Absent Recordings or Use as a Musical Alarm

All you need to enable the TC-511S to make recordings completely unattended, is a timer switch. You will be able to record FM programs when business—or pleasure—keeps you

away from home at the critical time. Or you can use the timer to wake you with pleasant music. Capstan and pinch roller are separated until the timer switches on, protecting both tape and drive mechanism.

Illuminated Cassette Chamber with Safety-Interlock Door

Cassette loading is in the easy, natural horizontal position, with a fully illuminated cassette chamber, and a big mirror to show tape movement (and the amount left) at a glance. The door is safety interlocked: no cassette can be ejected until the door is fully open.

Headphone Jack Provided

Ideal for checking program quality

when speakers would be unsuitable (they could cause "howling" with live on-mike recordings), the jack output will drive high impedance headphones like the superb Yamaha HP series as well as all conventional headphones.

A FAITHFUL MIRROR TO YOUR MUSICAL TASTE

The TC-511S was designed to satisfy the music lover's desire for a tape cassette recording which will give top quality performance. But no catalog will tell you how good it is: that, you have to hear for yourself. Here, in one, easy-to-operate deck, is all the tape recorder that most people will ever need.

SPECIFICATIONS

Track Configuration	4-track 2-channel stereo cassette deck	Overall distortion	Less than 1.5% (1 kHz, 0 VU, LH tape)
Mechanical		Channel separation	Better than 30 dB (1 kHz)
Wow and flutter	Less than 0.07% wrms (JIS)	Output level/impedance	LINE: 370 mV/50 k Ω (0 VU)
	Less than 0.2% (DIN)		PHONE: 1.6 mW/8 Ω (0 VU)
Tape speed	4.8 cm/sec (1 1/2 ips)		5 mW/150 Ω
Rapid transport (F FWD/REW)	Within 90 sec (for C-60 cassette)	General	
Electrical		Semiconductors used	18 Transistors, 4 ICs, and 21 Diodes
REC/PB frequency response	30 Hz to 13 kHz (Low noise high output tape)	Power consumption	12 Watts
	30 Hz to 15 kHz (FeCr and CrO ₂ tape)	Power supplies	120 V, 60 Hz (U.S.A. & Canada only)
Input sensitivity/impedance	LINE 50 mV/100 k Ω		220 - 240/110 - 130 V, 50/60 Hz
	MIC (DIN): 0.5 mV/5 k Ω	Dimensions (W x H x D)	435 x 180 x 334 mm
S/N ratio		Weight	17 1/2" x 6 1/4" x 13 1/4"
Dolby OFF	53 dB		8 kg (17 lbs. 10 oz.)
Dolby ON	8 dB improvement above 5 kHz (LH tape, with JIS auditory compensation filter)		

Specifications subject to change without notice.

For details please contact:

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