

YAMAHA TC800GL

High-performance stereo cassette deck with less than 0.06% wow & flutter, radical new easy-operation design, Dolby system, pitch control and automatic recording start.



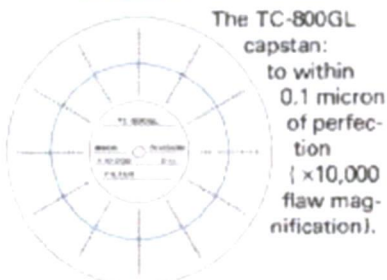
TC800GL

Dolby-Matched Performance

Yamaha's choice for the all-important recording and playback heads is super-hard permalloy. With the low



distortion of permalloy, and wear resistance comparable to ferrite, these heads give an inherently high signal-to-noise ratio and the fine audio quality that make the best of the Dolby* circuitry. Rapidly becoming standard on top-quality decks, the Dolby B system cuts tape hiss until it is virtually inaudible, even in the quietest passages. Quiet mid- and high frequencies are recorded at higher than natural levels, and then restored to the original level on playback, reducing noise and increasing the S/N ratio. Wow and flutter, too, have been reduced to new low levels in the TC-800GL. The ultra-high precision of the capstan profile, motor and belt drive gives better than 0.06% wrms, so low that neither wow nor flutter is ever a problem. This combination of super-hard permalloy heads and ultra-low wow and flutter, with flat and stable recording characteristics, enables Yamaha to offer a full 58dB S/N ratio when the Dolby system is switched in, as well as the tonal quality to match this wide, clean dynamic range.



The TC-800GL capstan: to within 0.1 micron of perfection ($\times 10,000$ flaw magnification).

Automatic CrO2 Tape Bias & Equalization

For the new cassettes designed for automatic tape equalization, a special sensor in the TC-800GL mechanism detects the extra hole incorporated in the cassette. A signal from the sensor then activates switching to give correct tape equalization. For conventional cassettes, a switch lets you select correct equalization for either regular or chrome, the newest type cassette tapes. The TC-800GL is ready to handle tomorrow's tapes, as well as today's, for the finest sound with every type of cassette.

Mario Bellini Design

Internationally acclaimed Italian designer Mario Bellini is responsible for the excitingly modern body configuration. Based on his award-winning concept of the "Bellini Angle," this shape offers many advantages. Operation from any position is simple and convenient, since the deck can either lie flat or tilt up on a fold-out support. Shaped to fit just below the armpit, it can be carried easily and comfortably. And the internally reinforced construction, in almost unbreakable ABS resin, ensures that light weight is accompanied by rugged durability.

Go-Anywhere Three-Way Versatility

Perfectly at home with the best of component stereo systems, using the standard AC supply, the TC-800GL is equally at ease operating from internal dry cells or a 12-volt car battery. The same superb performance is available for live recordings in the concert hall or the countryside. And with stereo headphones you can monitor the results — or just enjoy your favorite pre-recorded cassettes — wherever you go.

Wide-Range Meters and LED Peak Indicators with Peak Limiter

This combination of functions lets the TC-800GL handle sources with the widest dynamic range, even outdoor live recordings, without fear of overloading and distortion at the "peaks." Green LED indicators flash to show peaks too brief for the meters to follow. The red LEDs give a clearly visible warning of peak levels too high (+3dB) for good reproduction. Either turn the recording level down until only the green LEDs flash, or switch in the Peak Limiter, which will automatically cut the "red" peaks down to size, giving you the widest possible dynamic range. The clear, wide-scale meters read from -40 to +6dB.





Styling, Performance, Convenience: Revolutionary in Every Way

The TC-800GL is no ordinary cassette deck, as one glance will tell. Its futuristic lines, created by one of the world's leading designers, are as functional as they are strikingly original.

But the really outstanding aspects of the TC-800GL can be summed up in two words: performance and versatility. With wow & flutter held to less than 0.06% and a frequency response of 30 to 15,000Hz (using FeCr or CrO₂ tape), true high fidelity music reproduction from cassettes has become a reality. In addition to specifications like these that place it among the most advanced recording decks available, the TC-800GL is one of the easiest to operate from any position, even while it is being carried (it weighs a mere 5 Kg). It can record literally anywhere — concert hall or countryside.

Automatic Recording with Timer

The TC-800GL is specially designed for troublefree automatic recording using an external timer. With the switches set up for automatic recording, and power connected via the timer, you simply depress the Pause switch, thereby disengaging pinch roller and capstan. Later, when the timer applies power, the Pause switch automatically resets, and recording begins with no possibility of roller distortion.

Full Input Mixing for Recording

The TC-800GL opens up endless possibilities for experimentation in sound. Using the separate level controls for line and microphone inputs, record yourself singing — in stereo — with your favorite artists. The combined levels for MIC and LINE inputs are displayed on the level meters, so adjustment is simplicity itself.

Variable Pitch Control on Playback

If you like to sing or play along with your favorite musicians, the pitch control on the TC-800GL is an important extra. It lets you adjust the cassette pitch so that the recorded music is perfectly in tune with your own instrument. Ideal for use with special play-along records, this valuable control shows how Yamaha translates musical know-how into convenience features.

Automatic End-of-Tape Shutdown with Any Type of Cassette

A foolproof detection system provides complete protection for the tape drive mechanism under all circumstances. When tape end is reached, or the tape jams, the deck automatically switches off. Since the detection system operates by monitoring tape tension, it functions for any kind of cassette. This is one more Yamaha safeguard against any increase of wow and flutter over a long period of time.

Unique Memory Switch Lets You Repeat...and Repeat...

The memory switch on the TC-800GL is a very special facility, an invaluable aid to study using taped material. This switch, together with the tape counter reset button, lets you effectively "mark" the beginning of any section of a tape. Thereafter, each time the rewind switch is pressed, the tape will rewind and stop exactly at the "marked" point. So you can repeat the passage again. And again.



SPECIFICATIONS

Recording System	4-Track, 2-Channel Stereo	Output Level/Impedance	Line: 0.4V (0VU)
Tape Speed	4.8cm/sec. (1 7/8 ips)		Headphone: 1mW/8Ω
Wow & Flutter	Less than 0.06% (WRMS)		3mW/150Ω
	0.2% DIN	Fast Wind, Rewind Time	Within 80 Seconds
Signal-to-Noise Ratio	Better than 50dB (DIN, 0dB)		(C-60 Tape)
	Better than 58dB (Dolby On)	Semiconductors	45 Transistors, 6 ICs
Total Distortion	Less than 1.5% (1KHz, 0VU)		38 Diodes
Frequency Response	30-13,000Hz (LH Tape)	Power Consumption	16W
	30-15,000Hz (CrO ₂ , FeCr Tape)	Power Source	U.S.A. & Canada: 117V, 60Hz
Bias Frequency	85KHz		Europe: 220/240V, 50Hz
Input Sensitivity/Impedance	Line: 50mV/50KΩ	Dimensions (W x H x D)	Other Areas: 117/220/240V, 50/60Hz
	Mic: 0.5mV/10KΩ		312 x 98 x 312mm
Channel Separation	Better than 30dB		(12 1/4" x 3 3/4" x 12 1/4")
Playback Pitch Control	±3%	Weight	5 Kg (11 lbs) without batteries

Specifications subject to change without notice. *Dolby is a trademark of Dolby Laboratories, Inc.

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