

C.E.C.



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# TL1N

Double Belt-drive CD Transport

## A higher level of music reproduction

A CD transport combining unique belt-drive engineering with advanced digital technology



In the early 1990s, when CD player driven by direct motors were the norm, CEC released the "TL1", a CD transport using proprietary belt-drive technology. The TL1 captured the hearts of audiophiles all over the world with its unique idea and sophisticated sound. Seventeen years later, CEC challenges its own legend with the "TL1N" (N for New) CD transport.



Belt-driven Spindle and Pick-up

Original Stabilizer (370g)



Remote Control Unit

Rear Panel



## Top-of-the-line Analog Technology's Answer to the Digital Challenge

Since its inception, CEC has reigned as the foremost among analog player manufacturers. The original TL1 CD transport was conceived as a challenge to the digital world, making full use of CEC's legacy in traditional mechanical engineering.

During the playback of audio CDs, the rotation speed of the disc needs to be reduced gradually as playback proceeds outwards, in order to keep its linear speed constant. In most cases, a spindle motor handles this velocity adjustment.

Most CD players and CD transports are designed with a direct-drive system, which places the motor just under the turntable and drives the spindle directly.

A relatively large motor is needed to ensure adequate velocity adjustment, making it virtually impossible to be exempt from signal distortion caused by vibration and electromagnetic noise from the motor.

In order to improve the quality of the audio signals, CEC added a stabilizer to the turntable to increase its effective mass and inertial stability, making it possible to use a smaller motor located away from the spindle, and have it drive the spindle with a belt. CEC also designed an indirect belt-drive system for the pick-up, considering the pick-up motor a similar source of noise.

Based on the ideas above, CEC has spent the last 17 years devotedly developing belt-drive CD player/transports. Combining the latest digital data transfer techniques with the tried-and-true abilities of the belt-drive player in providing audio reproduction free

of motor noises, the updated TL1N CD transport offers an unprecedentedly beautiful, precise and deep reproduced sound.

## Evolutionary Integration of Analogue and Digital Technology

As a staple of the digital age, the TL1N features multiple digital outputs including CEC's proprietary "SUPERLINK" system, AES/EBU (XLR), COAXIAL, and TOSLINK (optical).

Of particular note, CEC's SUPERLINK system, which transmits audio signals and synchronization (clock) signals separately to minimize encoding/decoding jitter, has evolved into a multiple-cable system using high-quality 75Ω BNC cables, adding further polish to the CD transport's essential role of accurately conveying the information recorded on a CD.

## World-class Design from Japan

The TL1N's outer casing features a modern and organic curved design as well as high-quality 30mm aluminum boards, which add to both its visual appeal and structural hardness. Its smoothly curved surface randomly dissipates external vibration from speakers and such, improving the TL1N's resistance to noise over the original box-shaped TL1.

The TL1N uses an advanced switching power supply with an integrated AC line power purifier, providing stable power to its motor, servo, display and digital circuitries.

## Specifications

Transport	
Playable Discs	Audio CDs & Finalized CD-R/RWs recorded in audio CD format
Spindle Drive System	Belt-drive
Pickup Drive System	Belt-drive
CD Stabilizer	Brass (ø120mm, weight : 370g)
Spindle Shaft	ø4mm
Chassis	Aluminum (Maximum Thickness : 30mm)
Output	
Digital Output	SUPERLINK×1(BNC×4) : 2.5Vp-p/75Ω
	AES/EBU(Balanced XLR;HOT=2) ×1 : 2.5Vp-p/110Ω
	COAXIAL(SPDIF)×1 : 0.5Vp-p/75Ω
	TOS×1 : -21 ~ -15dBm EIAJ

General	
Power Supply	Noise Filtered Switching Power Supply AC100V-240V 50/60Hz
Power Consumption	9W
Dimensions	Approx. 435(W)×364(D)×145(H) mm (incl. legs, knobs and terminals)
Weight	Approx. 14kg
Accessories	AC Power Cord, Stabilizer, Remote Control Unit, Two AA type batteries, Owner's Manual
Color	Silver

\* Design and specifications are subject to change without notice.

 <b>Safety Precaution</b>	Be sure to operate this product properly once you have thoroughly read the owner's manual.
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<http://www.cec-web.co.jp>