



DOUBLE BELT DRIVE CD TRANSPORT

TL2N



The ideal system of belt-drive

(double belt-drive: both disc and laser pick-up driven by belts)
has been further evolved by a full tune-up of the basic mechanism.

Improved sound reproduction and High Resolution of CD's is now available
by the possibility of up-sampling of digital output to 88.2kHz or 176.4kHz.

It is also equipped with CEC's proprietary SUPERLINK connection
and an external world clock input.



Since the introduction of world popular double belt-drive CD Transport TL3N in 2011 CEC has been searching for improvement by precise tuning up of the mechanism.

This NEW Belt-drive mechanism has been installed to be fully centered for no adjustment of mechanism height. With a larger aluminum chassis, and the technology of easier belt replacement achieved by the single belt-drive system of TL/CD5 is now available in the TL2N double Belt-drive system. While the double belt-drive system with high flywheel effect wide stabilizer (12 cm in diam., 380 grams) improves the accuracy of reading the music signal.

The proprietary SUPERLINK connection transmits this high-quality digital signal in an ideal way to the CEC's compatible D/A converter. Combining with the other D/A converters the external word clock input enables to share the word clock in the system to eliminate jitter as well.

In addition, TL2N enables the improvement of high resolution music reproduction by up-sampling the CD's digital output signal 44.1kHz to 88.2kHz or up to 176.4kHz.

Enjoy the rich and musical sound reproduced by the new double belt-drive CD transport TL2N with the CEC's proprietary technology.

■ front panel



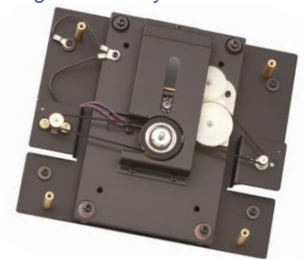
■ visible belt-drive system under the CD door opened



■ rear panel



■ belt-drive mechanism with larger chassis achieving higher stability than TL3N



■ IMPROVED DOUBLE BELT-DRIVE MECHANISM

The advantage of belt-drive CD system over the normal direct-drive has been proved by the long life of CEC's world original belt-drive system since its introduction in early 1990's. Simply, in order to eliminate the vibration and electromagnetic noise from the motors (both spindle motor for CD and feed motor for laser pick-up) a double belt-drive system has been applied, enabling the motors to be located away from the spindle and laser pick-up. A large (12 cm in diam., 380 grams) stabilizer to the turntable increases its effective mass and inertial stability (high flywheel effect) stabilizes the disc rotation.

Now the double belt-drive mechanism has been positioned just in the center of aluminum larger chassis for further stable rotation.

The newest CD transport offers an unprecedented beautiful, precise, rich and deep sound reproduction.

■ UP-SAMPLING

Sampling frequency of CDs is 44.1kHz as a traditional standard. This can be up-sampled to 88.2kHz or up to 176.4kHz, which is in the field of high resolution music reproduction through internet. (High resolution field covers even 96 and/or 192kHz as well. CEC's listening test shows 88.2/176.4kHz sound better than 96/192kHz). You may enjoy more precise and natural music reproduction with up-sampling feature.

(NOTE: Up-sampling does not work with SUPERLINK)

■ SPECIFICATIONS

Playable disc	Music CD & finalized CD-R/RW recorded in audio CD format
Disc drive system	Belt-drive
Pick-up drive system	Belt-drive
CD-Stabilizer	diameter; 120mm, weight; 380g (brass)
Digital output/ sampling frequency	SUPERLINK x 1: 2.5Vp-p/75 ohm (BNC x 4) / 44.1kHz
	AES/EBU x 1: 2.5Vp-p/110 ohm (2-pin hot) / 44.1kHz, 88.2kHz, 176.4kHz
	COAXIAL x 1: 0.5Vp-p/75 ohm / 44.1kHz, 88.2kHz, 176.4kHz
	TOS x 1: -21 to -15dBm EIAJ / 44.1kHz, 88.2kHz, 176.4kHz
Word clock input	BNC x 1: 44.1kHz NOTE: not useful with SUPERLINK
Up-sampling	24bit / 88.2kHz, 176.4kHz NOTE: not useful with SUPERLINK

■ WORD CLOCK INPUT

A BNC terminal is equipped to input 44.1kHz world clock signal generated by an external clock generator. TL2N reproduces the servo clock from the external word clock to combine the system clock resulting in the elimination of jitter.

(NOTE: Word clock input does not work with SUPERLINK)

■ SUPERLINK

Superlink transmits music signals and synchronization (clock) signals separately with 4 BNC 75 ohm cables, requiring no encoding/decoding process for data transmission, and using the master clock generated by the D/A converter to achieve a complete synchronization. That transmission system minimizes deterioration of the music signal and jitter.

■ DISPLAY

Superior Fluorescent and LED display can be dimmed and even disconnected during music performance.



■ massive brass stabilizer of 12cm in diameter and weighing 380 grams securely holds a disc in place

AC power	AC100V, 50/60Hz
Power consumption	21W
Dimensions	approx. 435(W) x 335(D) x 111(H)mm (incl. knobs, terminals & legs)
Weight	approx. 11kg (incl. CD-Stabilizer)
Accessories	CD-Stabilizer, AC power cord, remote control unit (U-218), and owner's manual
Color	Silver & Black
Origin	Japan

>Design and specifications are subject to change without notice.

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Safety Precaution	Be sure to operate this product properly once you have thoroughly read the owner's manual.
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