Supplemental to New Product Information (SNPI)



Analog Turntable



Employing a new ultra-stable, direct-drive motor,

a classically designed turntable with knife-edge tonearm bearings

Features at-a-glance

- Direct-drive analog turntable
- Crystal-locked speed stability, thanks to a new brushless DC motor with feedback control
- Die-cast aluminium platter
- Knife-edge, pivot-point tonearm bearings, designed by high-end tonearm manufacturer SAEC
- Multi-layer Piano Black or natural Walnut veneer finish
- Built-in PHONO EQ amplifier for high-quality sound (PHONO/LINE switchable)
- Digital recording capability on a PC via USB digital audio output
- 2-speed drive for 33-1/3 and 45 rpm
- Gold-plated output connectors to resist oxidation
- Acclaimed Oyster MM cartridge by SUMIKO





Brand	TEAC	TEAC
Model Name	TN-4D-O/B	TN-4D-O/WA
Series name	Analog Turntable	Analog Turntable
Color	Pianl Black	Walnut Veneer
EAN Code	4907034222643	4907034222667
Product W x H x D / NW	420 x 117 x 356 mm / 6.1 kg	420 x 117 x 356 mm / 6.1 kg
Package W x H x D / GW	525 x 240 x 438 mm/ 8.3kg	525 x 240 x 438mm/ 8.3kg

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Last update: 2019/3/25

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Product overview

The TN-4D is a direct-drive, analog turntable with an elegant, low-profile design, made possible by the use of a newly-developed brushless DC servo motor.

Our new brushless DC motor (with feedback control system) achieves crystal-locked speed stability and smoother rotation while also eliminating cogging*. This low-profile motor allowed us to design a plinth that's extraordinarily sleek and stylish compared to that of most other direct drive turntables. The new tonearm employs knife-edge, pivot-point bearings, developed in collaboration with SAEC Corporation, a world-famous, high-end tonearm manufacturer. The result is an insightful, highresolution sound quality that tonearms with conventional bearings can't match. Partnering it is a carefully designed PHONO EQ amplifier that allows you to directly connect the turntable to the linelevel inputs of your existing hi-fi system. A high quality NJM8080 op-amp, specially designed for hi-fi applications by New Japan Radio Corporation, is employed to convey the finest of musical detail. Additionally, a USB port on the back panel allows you to digitally archive your vinyl collection via your PC/Mac.

To extract the music from your vinyl, the TN-4D comes with a highly-regarded Oyster MM cartridge from SUMIKO – a legendary American cartridge manufacturer. Noted for its innate musicality, the cartridge comes pre-installed on the headshell at the factory, allowing near 'plug and play' operation. The S-shaped tonearm meanwhile allows for quick cartridge/headshell swaps, so users can alter the sound quality by experimenting with different cartridges, if the desire takes them.

The TN-4D is an analog turntable that achieves highly accurate rotational speeds and is very distinctive, for a direct-drive design, thanks to its sleek and stylish aesthetics.

What is Cogging?

Cogging is a phenomenon in which the periodic attraction of the armature and rotor inside the motor is dependent on the rotation angle, resulting in a fine pulsing. For example, if you turn the axle of a motor with your fingers, you'll feel the rotation occurring in steps. This phenomenon is known as cogging. In order to eliminate cogging on a direct-drive turntable, a motor needs to have large numbers of poles, along with complex circuits and a mechanism to achieve smooth rotation. As a result, most turntable direct-drive units are relatively large, which is why the resulting turntables are so bulky.

• New motor, developed exclusively for direct-drive turntables

The TN-4D uses a sleek, brushless DC motor, offering crystal-locked speed accuracy, regulated by a computer-controlled feedback circuit and achieving low wow-and-flutter levels for a direct drive turntable, especially one with such a stylish, low-profile design.

• Die-cast aluminium platter

In conjunction with the newly-developed motor, the high inertia, diecast aluminium platter helps to achieve better speed stability.



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• Knife-edge, pivot-point tonearm bearings

In collaboration with SAEC Corporation, a world-famous, highend tonearm manufacturer, the TN-4D's tonearm employs a knife-edge, pivot-point bearing. Unlike the case for tonearms with conventional bearings, any fine vertical movements encountered by this tonearm actually help in delivering a more dynamic sound with excellent resolution. The S-shaped tonearm also employs a universal headshell fitting, allowing users to quickly and easily swap cartridges/headshells, and



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supports a wide range of cartridge weights (from 14 - 23g / 0.5 - 0.8 oz.)

Precision anti-skating and stylus-pressure adjustment

As you might expect, the tonearm is equipped with a counterweight, for precise stylus-pressure adjustment, and an anti-skating mechanism.

• Built-in PHONO EQ amplifier supporting MM cartridges

The TN-4D comes with a built-in PHONO EQ amplifier that allows you to directly connect the turntable to the line-level inputs of your existing hi-fi system. The NJM8080 IC from New Japan Radio Corporation is employed for op-amp duties, bringing up the level of the tiny signals received via the cartridge up to LINE level strength without any loss of quality.

• USB digital output

A USB port on the back panel delivers CD-quality digital audio to your PC/Mac, allowing you to record/archive your vinyl in a high quality, digital audio format. Once you have archived your vinyl to digital, it's a simple matter to listen to them while out and about, via a smartphone/portable audio player, or in your car (by burning them onto a CD-R or transferring them to a memory card/stick). And to ensure pristine signal transfer, gold-plated PHONO/LINE output terminals are employed to prevent analog audio signals from losing quality as a result of oxidation.

2-speed turntable for 33-1/3 and 45 rpm

The TN-4D supports 33-1/3 and 45 rpm for LP and EP records. Our insistence on quality engineering can even be seen in the construction of the rotary control for start-up/speed selection, formed of machined aluminium.

Insulating feet with excellent shock absorption

The insulating feet comprise a machined aluminium shell topped with a rubber cushion that is fixed to the high-density MDF plinth. Thanks to their excellent shock absorption characteristics the TN-4D is very resistant to acoustic feedback.

Pre-installed Oyster cartridge by SUMIKO

The TN-4D comes with a well-regarded Oyster MM cartridge from SUMIKO - a legendary American cartridge manufacturer. Regardless of the type of music, the Oyster cartridge delivers a powerful but insightful performance.





Key Features

- Direct-drive analog turntable
- Crystal-locked speed stability, thanks to a new brushless DC motor with feedback control
- Die-cast aluminium platter
- Knife-edge, pivot-point tonearm base, designed by high-end tonearm manufacturer SAEC
- Multi-layer piano black or natural walnut veneer finish
- Built-in PHONO EQ amplifier for high-quality sound (PHONO/LINE switchable)
- Audiophile-grade NJM8080 op-amp used in PHONO EQ stage
- Digital recording on PC/Mac via USB digital audio output
- 2-speed drive offering 33-1/3 and 45 rpm
- Gold-plated oxidation-resistant output connectors
- Oyster MM cartridge by SUMIKO
- Shock-absorbing insulating feet
- GND terminal
- RoHS compliant

Specifications

Turntable section	
Type Direct Drive	
Motor	Brush-less DC Motor
Rotation Speeds	33-1/3 rpm, 45 rpm
Wow-and-Flutters	0.1%
S/N Ratio	67dB or higher (A-weighted, 20kHz LPF)
Turntable (Platter)	Aluminium, 30cm

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Tonearm	section

Туре	S-shaped, Static-balanced
Effective Length	223mm
Needle Pressure Range	0g to 5.0g
Compatible Cartridge Weight	4.0g to 13.0g
	14g to 23g (including Head-shell)

Headshell and Cartridge sections

Type MM-type (SUMIKO Oyster factory installed)		
Output Voltage	4.0mV (1kHz)	
Needle Pressure	1.5g to 2.5g (appropriate value: 2.3g)	
Weight	5.3g	
Headshell Weight	10g (including nuts, screws, and wires)	
Compatible Stylus	Styluses for SUMIKO Oyster	

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Analog Outputs	
Connector	RCA Pin jack x 1 pair (PHONO/LINE switchable)
Output Voltage	
PHONO	4.0mV (1kHz)
LINE	224mV (-13dBV)
USB Output	
Connector	USB B (DC 5V 100mA USB Bus power required)
Audio Format	PCM, 8k/11.025k/16k/22.05k/32k/44.1k/48kHz, 16-bit
Addio Format	r CH, 6K/11.025K/10K/22.05K/52K/44.1K/40KH2, 10-5K
General	
Operating Power	AC 100 to 240V, 50/60Hz
Power Consumption	2W
Standby Power	0.5W or less
Dimensions (W x H x D)	420 x 117 x 356 mm / 16.5" x 4.6" x 14.0" (incl. protrusions)
Weight	Approx. 6.1kg / 13.5 lbs.
Included Accessories	Felt Mat, EP Adapter, Counter Weight,
	Headshell (SUMIKO Oyster installed), Platter, Dust Cover, Hinges x 2,
	RCA Audio Cable with GND Terminal, AC Adapter (GPE036W-24015),
	Owner's Manual (incl. Warranty Card)

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Rear Panel

