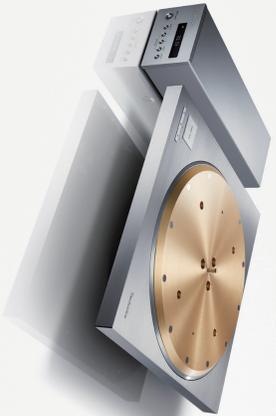




Direct Drive Turntable System SL-1000R  
 \*Measure the design as provided.



Direct Drive Turntable SP-10R  
 \*Measure the design as provided.

## Specifications

### Turntable Section

#### Drive and Motor

Direct Drive

#### Motor

Brushless DC motor

#### Turntable & Spindle

31 1/2 x 4.5 (mm)

#### Adapter Range

4.5 x 9

#### Start Stop Torque

0.29 N • m / 4.0 (kg-cm) (3.47 B-in)

#### Wow and Flutter

0.015 % W/8 KLS

#### Turntable & Adapter

Direct Drive Turntable System (DDTS) with 2.5 x 3.25 (inch) spindle (weight: 4.9 g) (1.73 oz)

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### General

#### Power Supply

AC 110-240V, 50/60 Hz

#### Power Consumption

0.04 W (standby), 0.05 W (standby)

#### Dimensions W x H x D

SL-1000R 178 mm (7.01 in) x 152 mm (5.98 in) x 152 mm (5.98 in)

#### SL-1000R



## Reference Class

### Direct Drive Turntable System SL-1000R

### Direct Drive Turntable SP-10R

## Value Electronics

Authorized Technics Dealer

35 Poplham Road

Scarsdale, NY 10583

914-723-3344

www.ValueElectronics.com

Rediscover Music

Technics

While the SL-1200 remains the bestselling Technics model ever, our original direct drive turntables, the SP-10 Series, still employ an almost cut-like status among fans of Technics audio components. Our work over the past two years on the revival of the SL-1200 Series are bearing fruit in many ways – among them the upcoming Technics SP-10B and Technics SL-1000R.

The world's first direct drive turntable, the SP-10 was launched in 1970, astonishing consumers and professionals alike with a level of rotational precision and reliability that belt drives and idler drives simply couldn't match. The SP-10MK2 pushed rotational precision even further with its Quartz-Phase-Locked Control. Superb performance and reliability quickly made the SP-10MK2 the go-to turntable for broadcast stations and the holy grail of audiophiles worldwide. The great appeal of direct drive technology is its ability to eliminate degradation in sound quality caused by rotation fluctuation and minute vibrations between the motor and transmission mechanism inherent in other types of systems. Many manufacturers embraced the technology and soon the direct drive turntable became the industry standard. And it all began with the SP-10. Over the intervening years, the SP-10 Direct Drive Turntable – together with the SL-1000 Direct Drive Turntable System with tonearm and cabinet based on the SP-10 – have become synonymous with direct drive technology and been hailed as legends in their own time, fitting symbols of the Technics brand name that still inspires the admiration and loyalty of audiophiles worldwide.

For some time now, analogue turntables have been experiencing a resurgence after being sidelined for many years by the compact disc player. Once again belt drive turntables have become the industry standard despite their inferior sound quality, simply because they're easier to design and manufacture. The formerly dominant direct drive turntable now finds itself marginalized due to the high technical threshold it demands. The result is that the market for high-fidelity turntables is dominated by a material-intensive approach that relies on sheer mass to achieve rotational stability. However, direct drive technology is in of itself inherently superior in its level of rotational precision, but the new SL-1200 Series' newly-developed coreless direct drive motor achieves unprecedented high-fidelity by eliminating cogging.

Given the current state of the high-fidelity turntable market today, we considered it our mission to leverage the technological expertise we've developed to build the next generation of direct drive turntables with their refined architecture, these new-concept products will offer consumers a truly superior alternative to the mass-intensive turntables currently available in the high-end market. These will be worthy namesakes of the history-making SP-10.

The revival of the SP-10 Series establishes a new reference point for the modern high-fidelity turntable, redefining it for a new age. That's why, as the newest additions to Technics' Signature Reference Class lineup of audio components, we have dubbed our newest direct drive turntable and turntable system, designed and engineered to optimize its outstanding performance, the Technics SP-10B and Technics SL-1000R.

## Direct Drive Motor (SL-1000B / SP-10B)

### Coreless Direct Drive Motor

The motor had been the heart of the direct drive, but the coreless design of the new SL-1000B and SP-10B improved the audible coil-belt motor-type coreless direct drive motor that was widely employed for this purpose. Had coils on both sides for 12-pole, 18-coil drive, with high energy input to drive the heavy-weight-class platter (approx. 7.5 kg). Outlining the coil on both sides of the stator improved the rigidity of the stator, suppressing the audible warping and resonance. The new permanent magnet active stable rotation motor achieves a high level of rotational precision and reliability. Also, the stator housing supporting the heavy-weight-class platter uses a special engineering plastic to provide both high rigidity and stability.

### Suppressing Unwanted Motor Vibration

The motor has been developed for the SL-1000B and the platter for the direct drive motor. The audible coil-reinforced stator bearings, and a chassis with increased rigidity achieved a stabilized motor with low center of gravity. By positioning two stators, steel weights with high rigidity and high specific gravity at the bottom of the chassis, the rigidity of the motor is improved, suppressing the audible warping and resonance. Also, the stator housing supporting the heavy-weight-class platter uses a special engineering plastic to provide both high rigidity and stability.

### Turntable Platter (SL-1000B / SP-10B)

#### Heavyweight-class Turntable Platter

The standard platter positions suspension weights, which have an extremely high specific gravity, to the top of the platter, causing the center of gravity to rise. The weight suspension on the side allows the center of gravity to stay the same, a 60% improvement, 2.7 kg and a vertical mass of approximately 1100mm. A damping rubber for eliminating unwanted vibration is also attached to the air surface to form a 3-layer construction and achieve high rigidity and excellent vibration damping characteristics.

### Control Unit (SL-1000R / SP-10R)

#### Separate Control Unit

The control unit is separated from the main unit to suppress the effects of unwanted noise on the main unit. In order to achieve a power supply circuit that provides good regulation for high torque, a switching power supply is used. To reduce the noise reaching the platter, the switching power supply is equipped with a unique technology that provides a voltage supply with minimal noise by a newly developed unswamped noise reduction circuit. Also, the control unit is equipped with a newly developed unswamped noise reduction circuit. An effective external noise shield is constructed between the main unit and the control unit. These through-noise-reduction measures achieve the world's highest level SL.

#### Minute Adjustment and Indication of Rotations

This turntable supports not only PITCH to ground and EMI/RFI anti-noise records, but also SP (SP) part. Rotation speed can also be set down to two decimal places (maximum a 10% from the control unit). The EQ delay is also capable of adjusting rotation with accuracy down to two decimal places, so the user can both hear and see extremely precise rotation.

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## Tonearm (SL-1000R)

### High-sensitivity Tonearm

To make the tonearm precisely track the record grooves, Technics has traditionally used the so-called "cantilever" type tonearm. However, the cantilever type tonearm has high-precision bearings, highly skilled adjustment of cutlance marks at assembly and adjustment to achieve a high in balance sensitivity to precisely track the groove cut into the records. DFC is used for internal wiring, so the music signal relayed from the cartridge is not degraded and the musical energy of the record is not lost. thereby producing highly vivid sounds.

### Tonearm Base

The tonearm base, to which the tonearm is mounted, is strongly integrated with the turntable part. Comparing the turntable base part with the tonearm mounting construction, the relationship of the bearing bearings, turntable bearings, and needle position is always constant, providing a structure in which the vibrations caused by the rigidity of the turntable base neither has minimal effect, and the tonearm performance is improved. An optional tonearm base can also be purchased, enabling, in addition to a standard tonearm base, to use a tonearm base (from SP-10R or SP-10B) to be mounted (up to three including the standard tonearm).

### High-quality Terminal

A gold-plated SP-10B terminal is used, enabling the user to detect the desired PHONO cable. An integrated, machined, high-rigidity aluminum housing also suppresses external noise from reaching the platter.

### Body and Insulator (SL-1000R)

#### A Rigid Cabinet and High Damping Silicon Insulator

The cabinet is a 2-layer construction consisting of BMC (bulk molding compound) and a 30-μm-thick aluminum foil panel. The turntable part is a 5-layer construction comprising BMC, aluminum die-cast, and a 25-μm-thick aluminum foil panel. The green system has a construction of 5 types of different materials to ensure sufficient rigidity. The insulator that supports the cabinet is a special silicon rubber that combines high rigidity during normal operation with high damping characteristics. The insulator is constructed from a monocoil polymer dielectric vibration in the bezel area. This part is constructed in a zinc die-cast housing with high specific gravity, for isolation from external vibrations.

### Backward Compatibility (SP-10B)

In order to enable users to continue using the turntable base and tonearm of previous models, the SP-1000B and SP-1000R are designed to allow mounting onto the SP-10MK2 and SP-10MK3 for complete backward compatibility. The control unit is also the same shape and size as the SP-10MK2 power unit for trouble-free replacement.

