Technics SL-3200

Direct Drive Semi-Automatic Turntable

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Technics' Direct Drive Tradition with All Front-Panel Control

When you audition a direct drive turntable from Technics, you're listening to a turntable that made history. Because the Technics direct drive system eliminates all the irregularities associated with belt and capstan drive turntables, and in this simplification assures you of a new level of a rotational accuracy.
The new SL-3200 D.D. model shows its pedigree in its virtual absence of wow & flutter, and extremely low rumble. Constant development of the direct drive system has now made it possible for us to add the convenience of all front-panel control. The SL-3200 also features our own TNRC base material to damp acoustic feedback. And of course you also get our amazingly sensitive gimbal suspension and low mass tonearm designed specifically for use with today's best high-compliance cartridges.
The SL-3200 is a semi-automatic turntable, but without the interference with basic performance associated with automated operation.
These features add up to the kind of effortless precision you expect from the Technics name —because we know the degree of performance you require when you're serious about high fidelity phonograph reproduction.

Technics' Direct Drive Sets the Pace

With so many other manufacturers trying to sell you D.D. systems, you might forget what's really important in a turntable. Of course you need rotational accuracy—the SL-3200 gives you wow & flutter of less than 0.03% WRMS. And you want low rumble—think of how quiet our −75 dB (DIN B) figure is.
But you should also take into account such variables as start-up characteristics, load torque, and long-term dependability. Our original hetero-pole, brushless DC configuration exhibits significantly better performance in all these areas—which is why Technics direct drive turntables have become the choice of professionals.

Integral Rotor–Platter Structure for Stable Operation

In this refinement of the direct drive system, we made the turntable platter an integral part of the motor by connecting it to the rotor.
Likewise, the motor stator is structurally unified with the motor casing. The result is smoother operation and fewer potential trouble spots.

Highly Advanced B·FG Servo Speed Control

"B·FG" stands for "Back-Electromotive-Force Frequency Generator" which is the servo system behind the outstanding rotational accuracy of the SL-3200. This servo system constantly monitors turntable speed, and if the slightest deviation is detected it corrects it instantly.
The complex circuitry handling this job is all contained in a single one-chip IC.
This dependable IC system and highly advanced electronic circuit are your guarantee of rock-stable platter rotation.

Front Panel Control—Now the Controls Are Where You Want Them.

All controls—including cueing—are on the front of the turntable outside the dust cover. This arrangement gives you more than just convenience—it keeps your records safe from accidental mishandling.

TNRC Base Material Stops Acoustic Feedback

If you've ever experienced howling—caused by acoustic feedback—you know it's the last thing you want your turntable to do. But with our original TNRC (Technics Non-Resonance Compound) base material, it's the last thing you'll have to worry about, even at high volume levels. This unique anti-resonant material is a high-molecular compound made by mixing inorganic compounds and special materials. Compared with ordinary plastic resins or particle boards, TNRC exhibits strikingly superior resonance attenuation characteristics.

Sensitive Gimbal-Suspension Tonearm

Extremely low bearing friction of 7 mg in both the vertical and horizontal planes means superb sensitivity. We build the gimbal suspension bearings to a tolerance of ±0.5 micron to make this tonearm the precision instrument you need for use with the best high-compliance cartridges on the market. Also, the tonearm mass is as low enough as 12 g for optimum cartridge compatibility.
The S-shaped universal arm is equipped with a detachable headshell highly resistant to partial vibrations. Gold-plated connections ensure perfect contact for faithful signal transmission.

Automatic Tonearm Return

You save wear and tear on records and stylus with automatic tonearm return. This automatic system detects the end of the record and quietly raises the tonearm and returns it to the arm rest.

Independent Pitch Controls

Front panel pitch controls let you speed up or slow down turntable rotation in precise amounts so you can "fine tune" the speed. They can be adjusted within a 10% range for both 33 and 45 rpm settings.

Stroboscope

You can accurately adjust the turntable speed by referring to the markings on the side of the platter.

Anti-Skating Force Control

Precision anti-skating force adjustment means it's easy to compensate for a wide range of tracking forces.

New Type MM Cartridge

The EPC-270C moving magnet cartridge employed in the SL-3200 features the new CKS magnetic material, a low effective mass, diamond stylus tip and high compliance matched with good stability and linearity, assuring accurate tracing.

- Hinged detachable dust cover
- Viscous damped cueing in both directions

Technical Specifications

TURNTABLE SECTION

Type	Direct-drive semi-automatic turntable
Motor	Back-Electromotive-Force Frequency Generator servo DC motor
Turntable platter	Aluminum diecast 30.4 cm (12") diameter
Turntable speeds	33-1/3 and 45 rpm
Speed change method	Electronic change
Variable pitch controls	Individual adjustment controls, 10% adjustment range
Wow and flutter	0.03% WRMS (JIS C5521) ±0.042% peak (IEC 98A weighted)
Rumble	−53 dB DIN A (IEC 98A unweighted) −75 dB DIN B (IEC 98A weighted)

TONEARM SECTION

Type	Universal S-shaped tubular arm, static-balanced type, direct-reading tracking force adjustment, with anti-skating force control device, oil-damped cueing device
Effective length	230 mm (9-1/16")
Overhang	15 mm (19/32")
Friction	7 mg (horizontally and vertically)
Effective mass	12 g (including headshell, but without cartridge)
Tracking error angle	+ 0°32′ at the inner groove of record + 2°32′ at the outer groove of record
Offset angle	22°
Adjustable tracking force	0~2.5 g (direct-reading)
Cartridge range	6~9.5 g 3~6.5 g (with shell weight)
Headshell weight	7.5 g

CARTRIDGE SECTION

Type	Moving magnet stereo cartridge
Frequency response	20 to 25,000 Hz −3 dB
Output voltage	3.2 mV at 1 kHz, 5 cm/sec, zero to peak lateral velocity (6.4 mV at 1 kHz, 10 cm/sec, zero to peak lateral velocity, DIN 45500)
Channel separation	25 dB at 1 kHz
Channel balance	Within 2 dB at 1 kHz
Compliance	10×10^{-6} cm/dyne at 100 Hz (CBS STR-100)
Recommended tracking force	1.75±0.25 g
Load impedance	47 kΩ~100 kΩ
Stylus tip	Diamond
Cartridge weight	6.0 g
Replacement stylus	EPS-270SD (EPS-270ED)

GENERAL

Power supply	AC 110~120/220~240V, 50/60 Hz
Power consumption	4.5W
Dimensions (W×H×D)	43.0×13.0×37.5 cm (16-59/64"×5-7/64"×14-49/64")
Weight	6.9 kg (15.2 lb.)

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