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Technics SL-1210GR2EK Gramofon sa direktnim pogonom

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Fusing Technics' traditional analog and digital technologies, the SL-1210GR2 is the new standard in direct drive turntable systems. With a revolutionary new drive control method for smooth, accurate rotational stability and a new power supply for an exceptionally low noise floor the new generation turntable outperforms the usual standards of its class, for rich, robust sounds and true high-fidelity listening.

Coreless direct drive motor achieving stable rotation
Low-noise, low-voltage power circuit and a switching power supply
ΔΣ-Drive suppresses vibrations from the motor for smoother, more accurate rotation
Tonearm achieving high initial-motion sensitivity
Two-layer platter with high rigidity and vibration damping
High-rigidity body and high-damping silicon insulators for smooth sound and isolation from various vibrations

The First Stage of The New Generation of Technics' Direct Drive Turntables
Since inventing the world's first direct drive turntable, Technics has continued to work to improve sound quality. It has now developed the ΔΣ-Drive, which suppresses minute vibrations from the motor and improves the electromagnetic conversion accuracy of the cartridge. The first stage of direct drive turntable systems featuring this technology is the SL-1210GR2.

New Motor-Drive System, ΔΣ-Drive (Delta Sigma Drive)
The ΔΣ-Drive is a new system that applies Technics' expertise in PWM signal processing. In addition to reducing high harmonics, the new drive suppresses vibrations from the motor for smoother, more accurate rotation, ensuring a rich reproduction of the music.

Coreless Direct-Drive Motor Achieving Stable Rotation
In 1970, Technics commercialised the world's first direct drive turntable, and the system took the world by storm. Unlike belt drive and other systems, direct drive systems rotate the motor at low speed and directly drive the platter, thus providing numerous advantages, such as the almost complete absence of degradation in S/N ratio due to motor vibration and deceleration mechanisms, as well as high reliability over a long period time because of not requiring parts replacement.
And in 2016, Technics developed the twin-rotor, surface-facing, coreless direct drive motor with rotor magnets placed on both sides, thereby eliminating the rotation irregularity of the motor, referred to as "cogging," which was a unique issue for direct drive systems. This motor was adopted for the SL-1200G, which once again drew a significant response in the hi-fi market. The SL-1210GR2 inherits the same design philosophy with the new development of a single-rotor, surface-facing, coreless direct drive motor, resulting in the elimination of cogging.

Pursuing Rigidity and Vibration Damping Characteristics
The platter achieves high rigidity and vibration damping characteristics by using a two-layer construction with deadening rubber applied to the entire rear surface of the aluminum die-cast to eliminate the unnecessary resonance that is otherwise relayed to the record, thereby producing clear sound.

To increase the inertial mass and reduce vibration, the shape of the aluminum die-cast portion was optimized by simulation. At 2.5 kg (including the rubber mat), the SL-1210GR2 platter is 0.8 kg heavier than that of the previous SL-1200MK5. Also, the back surface of the platter has strengthening ribs added to improve rigidity. Increasing the surface area of contact with the deadening rubber achieves damping characteristics that are more than twice those of the SL-1200MK5.

Tonearm Achieving High Initial-Motion Sensitivity
The tonearm tracks the rotation of the record and enables reading with high precision, and the tonearm inherited by Technics is the traditionally used static-balance universal S-shaped tonearm, employing an aluminium pipe with excellent light weight and rigidity for the material of the tonearm pipe.
With its gimbal suspension construction, the tonearm bearing section uses a cut-processed housing that employs high-precision bearings, as in the SL-1200G and SL-1200GR. The high initial-motion sensitivity of 5 mg or less is achieved through manual assembly and adjustment by skilled Japanese artisans. This enables the grooves etched into the records to be accurately traced.

In addition, one type of auxiliary weight comes included, and the cartridge can be swapped with a variety of other cartridges to match the music genre or feeling. (Applicable cartridge weight when using the supplied auxiliary weight: 10 - 16.4 g (not including the supplied head shell)

Low-Noise Switching Circuit
Use of a high-speed switching power supply ensures a stable supply capacity and less ripple and humming. Applying a switching power supply to a turntable eliminates the need for a large transformer and countermeasures for the ensuing mechanical vibrations.
A switching frequency of above 100 kHz limits the impact of noise on the music playback bandwidth.

Current Injection Active Noise Cancelling
This technology combines a noise detection device with an error amplifier. It detects residual noise in the power supply and applies an inverse phase current to remove noise components. It removes low frequency noise more effectively than a regulator to ensure a more ideal power supply.

Two-layered Cabinet Construction
The SL-1210GR2 ensures high rigidity by using a body with a two-layered construction that solidly unifies the BMC and the aluminum die-cast chassis.

High-dampening Silicone Insulators
For the insulators supporting the body, the SL-1210GR2 uses special silicon rubber that ensures high vibration damping characteristics and long-term reliability.

High-Quality Terminals
The turntable uses gold-plated phono terminals for detachable cables, while metal shielding construction inside the case reduces the effects of external noise.

Power Supply	AC220-240 V, 50/60 Hz
Power Consumption	11 W, Approx. 0.3 W (Standby)
Dimensions (W x H x D)	453 x 173 x 372 mm (17-27/32 × 6-13/16 × 14-21/32 in)
Weight	Approx. 11.5 kg (Approx. 25.35 lbs)

Accessories	Turntable, Turntable sheet, Dust cover, EP record adaptor, Balance weight, Auxiliary weight, Cartridge spacer Head shell, Overhang gauge, Screw set for cartridge, PHONO cable, PHONO earth lead, AC power supply cord, Owner's Manual
Operating Humidity Range	35% to 80% RH (no condensation)
Terminals	
Audio Output	PHONO (Pin Jack) x 1, EARTH TERMINAL x 1
Tonearm Section	
Type	Static Balance
Effective Length	230 mm (9-1/16")
Overhang	15 mm (19/32")
Tracking Error Angle	Within 2° 32' (at the outer groove of 30 cm record), Within 0° 32' (at the inner groove of 30 cm record)
Offset Angle	22°
Arm-height Adjustment Range	0 - 6 mm
Stylus Pressure Adjustment Range	0 - 4 g (Direct Reading)
Head Shell Weight	Approx. 7.6 g
Applicable Cartridge Weight Range	(without auxiliary weight) 5.6 - 12.0 g; 14.3 - 20.7 g (including head shell) (with auxiliary weight) 10.0 - 16.4 g; 18.7 - 25.1 g (including head shell)
Cartridge Mounting Dimension	JIS 12.7 mm (1/2") interval
Head Shell Terminal Lug	1.2 mmφ 4-pin terminal lug
Turntable Section	
Type	Direct Drive Turntable
Turntable Speeds	33-1/3, 45 and 78 r/min
Adjust Range	±8 %, ±16 %
Starting Torque	2.2 kg-cm

Build-up Characteristics	0.7 s. from Standstill to 33-1/3 r/min
Wow And Flutter	0.025 % W.R.M.S.
Braking System	Electronic brake
Turntable Platter	Aluminium diecast, Diameter: 332 mm, Weight: Approx. 2.5 kg (5.51 lb) (Including rubber sheet)