

Technics SL-20

by Panasonic

Frequency Generator Servo Turntable



The same research team that changed the face of the turntable industry with the renowned direct-drive motor now brings belt-drive turntable performance to a new state of the art.

In the SL-20 Frequency Generator Servo Turntable, an innovative Frequency-Generator Servo control circuit has been wedded to the best of conventional belt-drive design.

The result is performance well beyond previously accepted standards for belt-drive systems, on a par with many direct-drive designs, and even close to the performance levels achieved in Technics direct-drive turntables—all at a modest price.

Specifications for wow/flutter and rumble are superb. The quality S-shaped tubular tonearm, with

its universal plug-in headshell, is a fitting complement to the rest of the system. Crowning the SL-20's performance is a sleek physical styling, in simulated metal finish and including a hinged, detachable dust cover, that gives it the look of a connoisseur product as well as top performance.

SL-20 Frequency Generator Servo Turntable

DC Motor with Newly-Developed Frequency Generator Servo-Controlled Circuits

The newly-developed, ultra-compact DC motor incorporates frequency generator servo-controlled circuits using highly-reliable IC circuits in order to obtain superb rotational characteristics against any load fluctuations. In addition, the DC motor of the SL-20 consumes less than 0.5 watt, thanks to these two circuits, which means much less vibration caused by the motor.

Outstanding Wow and Flutter, Rumble Ratings

The result is an excellent rumble figure of -55dB (IEC 179B), -40dB (DIN 45539A), -65 dB (DIN 45539B) and wow and flutter of 0.05% W.R.M.S. (JIS C5521). This compares favorably with more expensive direct-drive turntables.

Full-Size 12-Inch Platter, Yet Compact Overall Size

Although the SL-20 is equipped with a full size 30 cm platter, it is finished to compact dimensions: it is only 428 mm wide, 348 mm deep, and 135 mm high as

measured from the base of its legs to the top of the dust cover. Accordingly, it may be placed on top of other components of the system to conserve space in installations where usable space is limited.

High Quality Universal Tonearm

The SL-20 is equipped with a high-sensitivity, statically-balanced, S-shaped tonearm which is simple to set up. The diecast headshell employs the universal-type gold-plated 4-pin connector.

Built-in Audio Insulators

New material has been incorporated in the SL-20 to prevent acoustic feedback consisting of a combination of metal spring and vibration-absorbing material. Also, the cabinet is composed of an exclusive particle board reinforced by ribs, to absorb outside vibration.

Frequency Generator Servo-Controlled Speed Switching

This not only ensures easy maneuverability but also prevents the performance deterioration associated with the mechanical switching of conventional belt-drive turntables.

Speed Controls

Separate speed controls are provided for 33-1/3 and 45 rpm.

Constant Speed Against Power Fluctuations

Speed is independent of the influence of home current fluctuations, thanks to the DC motor and frequency-generator servo-controlled circuits.

Low-Capacitance Phono Cables

Eliminates high-frequency audio losses and ensures compatibility for CD-4 disc reproduction, with a suitable CD-4 cartridge.

Anti-Skating Force Control

A well-designed anti-skating force control counteracts side thrust; simply set the dial scale to the same value as the tracking force.

Viscous-Damped Cueing Lever

For smooth descent. Your tonearm will land exactly at the spot you desire.

Hinged, Detachable Dust Cover

Stays open at any angle. Simulated metal finish.

Technical Specifications

TURNTABLE SECTION

Type FREQUENCY GENERATOR SERVO TURNTABLE. Manual
Driving method Belt drive
Motor DC motor with FREQUENCY GENERATOR SERVO
Turntable platter Aluminum diecast, 12" (30 cm) diameter
Turntable speeds 33-1/3 and 45 r.p.m.
Speed change method Electronic change
Speed controls Individual adjustment controls, 6% adjustment range
Wow and flutter 0.05% W.R.M.S. (JIS C5521)
 $\pm 0.08\%$ W. zero to peak (DIN 45507)

Rumble -55 dB (IEC 179B)
 -40 dB (DIN 45539A)
 -65 dB (DIN 45539B)

ONEARM SECTION

Type Universal "S" shaped tubular arm, Static-balanced type, Direct reading stylus pressure adjustment.
Effective length 8-21/32" (220 mm)
Overhang 35/64" (14 mm)
Tracking error angle Within $+3^\circ$ (at the point 5-45/64" or 145 mm from the center)
Within -0.2° (at the point 2-3/16" or 55 mm from the center)

Offset angle 22°
Adjustable stylus pressure range 0 to 4 g
Cartridge weight range 3 to 8.5 g
Headshell weight 9.5 g

GENERAL

Power supply 120V, AC 50 or 60Hz
Power consumption 2W
Dimensions (HxWxD) 5-5/16"x16-55/64"x13-45/64" (13.5x42.8x34.8cm)
Weight: 11 lb. (5.0 kg)

Technics
by Panasonic

MATSUSHITA ELECTRIC CORP. OF AMERICA

EXECUTIVE OFFICES, 1 Panasonic Way, Secaucus, New Jersey 07094. (201) 348-7000
PANASONIC NEW YORK, 50 Meadowlands Parkway, Secaucus, New Jersey 07094. (201) 348-7000
PANASONIC BOSTON, C.C. & F. Industrial Park, 31 Suffolk Road, Mansfield, Mass. 02048. (617) 339-9115
PANASONIC BALTIMORE, 11 Azar Court, Baltimore, Md. 21227. (301) 247-4300
PANASONIC CHICAGO, 363 N. Third Ave. Des Plaines, Ill. 60016. (312) 299-7171
PANASONIC ATLANTA, 1 Meca Way, Duluth, Georgia 30136. (404) 448-1100
PANASONIC DALLAS, 4415 Simonton Road, Dallas, Texas 75240. (214) 233-5721
NEWCRAFT INC. 8383 Wilshire Blvd. Beverly Hills, Calif. 90211. (213) 655-5160
PANASONIC DE PUERTO RICO, Ave. 65 de Infanteria, Km. 9.7 Victoria Industrial Park, Carolina, Puerto Rico 00630. (809) 769-4320
MATSUSHITA ELECTRIC OF HAWAII, INC. 320 Waiakamilo Road, Honolulu, Hawaii 96817. (808) 847-5361

Specifications are subject to change without notice. Printed in Japan.