

Technics

by Panasonic

SL-1500MK2

Quartz-Phase-Locked Control
Direct Drive Turntable with
Quartz Synthesizer Pitch Control



Professional Series



SL-1500MK2

Quartz Locked Pitch Control with $\pm 9.9\%$ Range Digital Pitch Readout Our Latest Direct Drive Turntable

Some eight years ago, Technics introduced the world's first direct drive turntable, the SP-10, to an astonished audio world. The intervening years have seen rapid market penetration by such Technics best-sellers as the SL-1300, 1400, and 1500 — over 400,000 of them are now serving their owners world wide. Last year, the SP-10 MKII opened up era of quartz control in professional turntables, finding quick and enthusiastic acclaim for its unrivaled speed accuracy, enormous torque and super-fast start/stop action. Now, we are proud to introduce the SL-1500MK2, another "world's first" on account of its totally quartz controlled drive with digital LED readout of the $\pm 9.9\%$ pitch chosen. In our tradition the SL-1500MK2 has been engineered for easy, pleasantly smooth and quiet operation. This has also resulted in an optical appearance of functional beauty.

Total Quartz Phase Locked Control at 199-Speed Increments

Quartz control is the most accurate method of controlling speed known to man; it maintains turntable speed accurate within 0.002%. But, so far, the quartz reference was in effect only within strictly limited ranges; whenever vernier speed change was required, the quartz circuit had to be switched off.

The big breakthrough in the SL-1500MK2 is that from either of its two normal speeds, actual speed can be raised or lowered in exact 0.1% increments, by as much as $\pm 9.9\%$, giving a total of 199-increments.

To raise or lower speed by 0.1%, you touch the respective button once. When you keep pushing the button, the pitch change will advance instantaneously.

Digital LED Readout of Quartz Synthesizer Pitch Control

The pitch chosen is shown, in digital form, by an array of LED's. Starting from 33-1/3 for instance, the display will show "+0.1%"

after you've pushed the plus button once. An indication of plus or minus 5.9% means that the musical pitch has been raised or lowered by one half note.

All Control Functions Effected by 4 High Density IC's

The tremendous technology and complexity of this system has been compressed into four integrated circuits of high density, doing the jobs of 3,000 conventional discrete elements.

The circuits feature "Three-phase full-wave bi-directional drive control", "Completely bi-directional servo control", and "Full cycle Integration Type Frequency Generator".

Sensitive Gimbal Suspension Tonearm

A total of 20 miniature balls finished to a tolerance of ± 0.5 micron provide minimum friction. The arm is so sensitive that it will respond to forces as tiny as 7mg.

Double Isolated Suspension System and Special Base Material Prevents Acoustic Feedback Problems

The aluminum diecast turntable base is supported on one set of vibration damping isolators. The inner main base is made of a newly developed anti-resonant material molded from plastic, fiberglass and other materials, and is suspended from the turntable base by a second set of isolators. All important turntable, motor and tonearm assembly are mounted on this main base. This unique construction makes the turntable probably feedback proof.

Enormous Torque, Instant Starts and Speed Changes, Electronic Braking
With no less than 1.5 kg-cm of torque from its integral rotor-platter motor structure, no speed fluctuations will be found up to 300g of tracking force. This

means theoretically, you could have 150 tonearms tracking 2 grams each, and the SL-1500MK2 would still pull through at exactly the chosen speed. More importantly, however, this torque pays off in terms of quick starting power. From standstill, the platter reaches rated 33-1/3 rpm within 0.7 sec. or one quarter of a turn. Speed changes are practically instantaneous, too. For braking, a fully electronic system is utilized.

Output Muting Linked to Cueing Lever
Absolute silence is what you hear while the arm is in motion, because the signal output is automatically interrupted during this period.

All Front Controls

All functions can be conveniently operated even with the dust cover closed, because the feather-touch control buttons are located in-line on the front panel. Such a care has been taken for preventing careless unintended tonearm or motor action that 90 grams of pushing power will be needed to activate the circuits.

Other Features:

- Zinc diecast arm base for improved acoustic feedback damping.
- Arm height is precision adjustable (via vernier) within 6 mm range, to accommodate different cartridge dimensions.
- Resonance-dampened head shell with unique overhang adjuster is supplied.
- Low capacitance phono cables.

**Wow & Flutter
0.025% WRMS
Rumble
-73 dB or below
(DIN B)**

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