

# KD-770D

## QUARTZ PLL DIRECT DRIVE AUTO-LIFT-UP HS TURNTABLE

The precision-engineered KD-770D features the Kenwood ultra-rigid DL motor and high-stability HS tonearm for outstanding music reproduction accuracy.

### Dynamic center-lock direct drive motor

This improvement in the direct drive system produces outstanding accuracy in shaft rotation, which is virtually free of instability. It is the source of the KD-770D's wow-and-flutter rating of 0.008% (Readout Direct) — an accuracy found in few other turntables.

### Integrated uniblock structure with ARCB reduces vibrational energy-loss

Many turntables cause a loss in musical energy during reproduction through insufficient structural rigidity. With the Kenwood DL system, it has been possible to integrate the motor into a solid block of ARCB anti-resonant resin-concrete. This in turn is mechanically linked with the tonearm assembly, so that the entire unit forms one rigid integrated whole. This has important results in terms of locational accuracy, improved tonearm tracking and better sound quality.

### High-stability HS tonearm for super-accurate signal pickup

The tonearm assembly of the

KD-770D is superbly engineered to perform its task of tracking record grooves while preventing partial vibrations from affecting the stylus pickup and thus degrading the signal. The pivot bracket is a large-size diecast span of trapezoidal form with thick walls, designed to resist all vibrational and torsional movement. It is coupled to the shaft by a knife-edge base. Both shaft and bracket in this high-stability design have natural resonant frequencies that are computer-calculated to suppress the generation of spurious partial vibrations.

### High-inertia platter with inertia-lock

One of the ways the KD-770D heightens its music reproduction quality is with its heavy platter that develops a moment of inertia value of 450 kg-cm<sup>2</sup>. This is more than enough to block subtle variations in platter rotation accuracy which are caused, not by external vibration but by resonance from dynamic music signals.

The benefits of this are more evident with digital-source records that have wide dynamic range. Once the heavy platter has reached precise rotation

speed, a special electronic inertia-lock is activated.

### High-efficiency DC motor with quartz PLL control

The platter is driven by a high-efficiency, high-torque, slotless and coreless DC motor of 3-phase switching plane type. This is controlled by a quartz-referenced phase-locked loop circuit. In order to provide the same sort of efficiency and accuracy in bringing the platter to a stop, an electronic reverse-torque braking system is employed. All motor/platter movement comes under the command control of a high-integration bipolar circuit for greater reliability.

### Electronic operation and non-contact auto-lift-up function

As a precision instrument, the KD-770D is designed primarily for the manual operation often preferred by purists. However, electronic aids to operation are also provided, including tonearm lift-up. At the end of the record, lift-up is performed in total silence by a non-contact photo-sensor mechanism.

### Attractive black mirror-lacquer piano finish

More than a functional turntable, the KD-770D is also a remarkably handsome piece of furniture, finished with a fine piano-like surface of dark, almost black, simulated walnut grain veneer.



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## MOTOR & TURNTABLE

Drive System .....	Direct Drive
Motor .....	Quartz PLL Coreless & Slotless DC Servo Motor
Turntable Platter .....	13" (33cm) Diameter, Aluminum Alloy Die-Cast
	Weight — 4.2lbs (1.9kg)
	Starting Torque — 1.2 kg.cm
Speeds .....	2 Speeds, 33-1/3 and 45 rpm.
Wow & Flutter .....	Less than 0.02% (WRMS)
	Less than 0.008% (Readout Direct)
Rumble .....	DIN weighted better than -80dB
	DIN unweighted better than -55dB

## TONEARM

Type .....	Static-Balanced Type, Straight Pipe Arm, EIA Plug-in Connector
Effective Tonearm Length .....	9-5/8" (245mm)
Overhang .....	9-16" (15mm)
Tracking Error .....	+1.8 to -1.0 degree
Stylus Pressure Variable Range .....	0 to 3 grams (0.1g Step)
Usable Cartridge Weight .....	2.0 to 12 grams with Supplied Headshell
Adjustable Height Range .....	Within 9/32" (7mm)

## BUILT-IN FEATURES

Illuminated Quartz-Lock Indicator, Electronic-Controlled Brake, Arm-Height Adjuster, Anti-Skating Device, Electronically Controlled Auto-Lift Up Mechanism, LED Speed Indicator, Free-Stop Action Acrylic Dust Cover, Stylus Pressure Direct Readout Counter.

## GENERAL

Power Requirement .....	120V, 60Hz
Power Consumption .....	22 watts
Dimensions (W x H x D) .....	19-5/16" x 6-3/8" x 16-1/8" (490 x 162 x 410mm)
Weight (Net) .....	25.7lbs (11.7kg)

## SUPPLIED ACCESSORIES

Low Capacitance Phono Cables with Gold-Plated Terminals, EP Adaptor, Hexagonal Wrench, Aluminum Alloy Die-Cast Headshell

## CABINET MATERIAL

Particle board laminated with piano-polished simulated walnut grain finish