

New model information

# DP-A100

Direct Drive Turntable

# DENON

**Special edition of  
direct drive turntable  
celebrating our  
100th anniversary**

**100**  
*th*  
*Anniversary*  
since 1910



### A History Like No Other.

The history of Denon turntables commenced in 1910 with the production of Japan's first gramophone and peaked in 1939 when Denon developed a disc recorder for NHK. Denon turntables were used not only by general users but by many radio stations professionals as well. In 1970, Denon developed its own high-torque AC motor for low speeds where speed was controlled by highly precise detection of magnetic pulses recorded around the perimeter of the platter. Denon incorporated this epoch-making servo technology in its development of the direct-drive turntable whose high performance and reliability represented a clear break from conventional idler and belt drive products, and earned Denon a solid position as the brand for players used at radio stations.

In the following year, the turntable was adapted for consumer use, and Denon, which continued to produce direct-drive players, became an unforgettable brand of analog players among audio enthusiasts. The DP-A100 player is being released as a Denon anniversary model with the same high-performance Denon direct-drive turntable technology that has delivered cogging-free, high-precision rotation for 40 years. Equipped with the DL-A100 cartridge, the DP-A100 is capable of masterfully reproducing the energy and beauty of analog discs.

### The Signatures of Quality.

The DP-A100 features the 100th anniversary logo badge, and comes with a 5-year warranty and a signed certificate of authenticity from the chief production engineer who hand crafted the product. Also included is the DL-A100 cartridge and a beautiful Denon "brand book" that explores the history of one of the leading names in the audio-visual field.



Special Edition 100th Anniversary Series



## High quality audio

### • Natural wood cabinet with dark-brown finish

The DP-A100's beautiful cabinet has been made with sliced veneer of natural wood and given a multi-coat finish similar to lacquer to produce a deep glossy lustre.

### • Large platter for stable rotation

The DP-A100 has a large die-cast aluminium platter with a diameter of 331mm. Silicone rubber, a deadening material, has been applied over the entire reverse side to minimise vibration and suppress howling.

### • Quartz lock servo and direct drive, to support stable rotation

The DP-A100 uses a quartz lock servo that controls rotation frequency by detecting pulses of light passing through a slit inside the motor. This quartz lock servo and direct drive motor work together to ensure high-precision rotation.

### • Highly sensitive universal tone arm

The DP-A100's tone arm is mounted on a large aluminium die-cast base whose height can be adjusted in a range of 6mm. When this tone arm is used with the machined aluminium head shell that comes with the DP-A100, unwanted vibration is absorbed and the cartridge can perform at its maximum capacity.

### • Large insulators

Large insulators have been installed on the DP-A100 to achieve ideal damping characteristics against external vibration.

### • Included DL-A100 MC stereo cartridge



## Main Specifications DP-A100

### Turntable section

Driving system	Servo system direct drive
Speed	33 – 1/3 rpm, 45rpm
Wow & flutter	Less than 0.1 % WRMS
Starting time	Specified speed within 0.3 sec (for 33 rpm)
Turntable	Aluminum die-cast, 331 mm in diameter
Motor	Direct-drive motor
Speed control system	Quartz control
Load characteristics	0 % with the stylus pressure 80 g
Speed deviation	Within $\pm 0.003$ %

### Tone arm section

Arm form	Static balance S-shaped pipe arm
Effective arm length	244 mm
Overhang	14 mm
Tracking error	within 3°
Arm height adjustable range	about 6 mm
Stylus pressure variable range	0 to 4.0 g
	One step 0.25 g
Suitable cartridge empty weight	4 to 10 g
Head shell weight	18 g (176mN) (including screws, nuts, nylon washers)
Cartridge space weight	0.25 g (1 sheet)

### General

Power supply	AC 230 V, 50 Hz
Power consumption	10 W (depends on Electrical Appliances and Material Safety Act)
Maximum external dimensions	With dust cover closed: 490 (W) $\times$ 213 (H) $\times$ 405 (D) mm (including protruding parts) With dust cover open: 490 (W) $\times$ 515 (H) $\times$ 465 (D) mm (including protruding parts)
Weight	15.7 kg

## Main Specifications DL-A100

Principle	Moving coil (MC) type
Output Voltage	0.3 mV (1 kHz, 50 mm/s horizontal direction)
Channel Balance	1 dB max. (1 kHz)
Channel Separation	25 dB min. (1 kHz)
Electrical Impedance	40 ohms $\pm 20$ %
Compliance	5 $\times 10^{-6}$ cm/N (Using a 100 Hz record)
Stylus	0.2 mm square solid diamond
Tracking Force	25 mN $\pm 3$ mN (2.5 g $\pm 0.3$ g)
Frequency Response	20 Hz to 45 kHz
Weight	0.3 oz, 8.8 g
Load Impedance	100 ohms min. (40 ohms when using a transformer)

\*Design and specifications are subject to change without notice.

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