DENON. FOR 70 YEARS, INNOVATION HAS BEEN OUR TRADITION.

1910, the year DENON first started producing records and players, marked the beginning of a DENON tradition that includes many of the audio industry’s most significantly accomplishments. A direct-drive turntable in 1939. Moving-coil cartridges in 1951. And the invention of commercial PCM recording system in 1972. To name just a few.

It is no wonder that DENON is the prime supplier to the NHK, Japan’s equivalent to the BBC.

The equipment shown in this brochure marks DENON’s 70th Anniversary as a Professional Audio Brand. Every DENON item, from the accessories to the reference electronics, represents the culmination of 70 years of experience in improving the reproduction of recorded music.
**SPECIFICATIONS**

Type: 3 motors 2-speed stereo tape deck

Heads: Hard permalloy (NiP)

Motors:
- Cassette: AC servo motor
- Tape: AC servo motor
- Other/S/N: Less than 0.03% (SRN)

Wow/flutter: Less than 0.1%

Overall frequency response: 30 Hz - 30 kHz ± 3 dB

Channel separation: More than 56 dB (1 kHz)

Power supply: Power consumption: 22 W

**DR-320 3-Head Tape Tension Servo System Stereo Cassette Deck**

- DENON's new tension servo system enhances the performance of the 3-head system by eliminating tape bias.
- Full DC amplifiers are built into both the track and playback system for wide frequency response.

(ACA-10 side wooden cabinet is available)

**SPECIFICATIONS**

Type: 4-track, 2-channel stereo

Heads: Record/playback: F-alloy

Motors: Erase: Double gap ferrite

Capstan: DC servo motor

Reel: DC motor

Wow and flutter: Less than 0.04% WII

Overall S/N ratio: Approx. 50 sec (C-60)

More than 76 dB (ICD/D/BR switch at ON)

More than 52 kHz ± 3 dB

- 30 Hz - 1 kHz: ± 3 dB

- 20 Hz - 20 kHz: ± 3 dB

- 1.5 kHz: ± 3 dB

More than 65 dB (1 kHz)

Microphone: 0.35 mV/10k Ω

Output: Line: 7/10 Vrms/50 kΩ

Headphone: 775 mV/10k Ω

Power supply: 1.2 V/m (load impedance: 1 kΩ)

Power consumption: 25 W

Dimensions (W x H x D), weight:

244 x 117 x 300 (mm), 7.0 kg

**RC-55 Remote Control Unit**

- Fully logic circuit, feather touch control system.
- 2-motor mechanism to drive the capstan and reel independently.
- Non-slip reel drive system with stable take up torque and improved durability.
- Comfort/verifying and automatic cueing system.
- Large Vu meter and 3-color LED peak indication for proper level monitoring.

(ACA-10 side wooden cabinet is available)
L-305 Lightest Amorphous Boron Cantilever MC Type Phonograph Cartridge

Ensuring excellent acoustic characteristics by newly developed amorphous boron pipe cantilever with light weight vibration system. Obtaining a flat frequency response over a wide range and adds to frequencies as high as 75 kHz.

SPECIFICATIONS

- Type: Moving coil type
- Output voltage: 0.2 mV (1 kHz, 1 mV/sec)
- Frequency response: 20 Hz – 75 kHz
- Output impedance: 40 Ohm (20 kHz)
- Load impedance: More than 100 kΩ
- Channel separation: 100 dB or more
- Channel sensitivity difference: Special elliptical tip stylus (0.05 x 0.1 mm)
- Static compliance: 14 x 10⁻⁶ cm³/ dynes
- Stylus force: 1.3 g ± 0.2 g
- Weight: 5.8 g

DL-103D "High Trackability" MC Type Phonograph Cartridge.

- The top of the line in the DL-103 series. It employs a 0.1mm special stylus tip with a tapered and double construction cantilever. 
- High trackability that can reproduce flat response up to 65 kHz.

SPECIFICATIONS

- Type: Moving coil type
- Output voltage: 0.2 mV (1 kHz, 1 mV/sec)
- Frequency response: 20 Hz – 75 kHz
- Output impedance: 40 Ohm (20 kHz)
- Load impedance: More than 100 kΩ
- Channel separation: 100 dB or more
- Channel sensitivity difference: Special elliptical tip stylus (0.05 x 0.1 mm)
- Stylus tip: 14 x 10⁻⁶ cm³/ dynes
- Stylus force: 1.3 g ± 0.2 g
- Weight: 7.5 g

DL-103S High Performance MC Type Phonograph Cartridge.

- Retaining the construction of the DL-103, the DL-103S's vibration system is much lighter, and high trackability is possible with higher compliance at lighter stylus force. Flat response up to 60 kHz.

SPECIFICATIONS

- Type: Moving coil type
- Output voltage: 0.3 mV (1 kHz, 50 mm/sec)
- Frequency response: 22 Hz – 96 kHz
- Output impedance: 40 Ohm (20 kHz)
- Load impedance: More than 100 kΩ
- Channel separation: 100 dB or more
- Channel sensitivity difference: Special elliptical tip stylus (0.05 x 0.1 mm)
- Stylus tip: 2.0 x 10⁻⁶ cm³/ dynes
- Stylus force: 1.2 g ± 0.2 g
- Weight: 7.8 g

DL-103, DL-103/T MC Type Phonograph Cartridge.

- The basic model of DL-103 series which was specifically designed for professional use. Moving coil type cartridge design for the ultimate tone quality. The highly respected model has been the standard for playback of phonograph records over the past 15 years by broadcasting and businesses. DL-103/T is furnished with its own wide band transformer which can extract the DL-103 full potential.

SPECIFICATIONS

- Type: Moving coil type
- Output voltage: 0.3 mV (1 kHz, 50 mm/sec)
- Frequency response: 20 Hz – 40 kHz
- Output impedance: 40 Ohm (20 kHz)
- Load impedance: More than 100 kΩ
- Channel separation: 100 dB or more
- Channel sensitivity difference: Special elliptical tip stylus (0.05 x 0.07 mm)
- Stylus tip: 15 x 10⁻⁶ cm³/ dynes
- Stylus force: 1.5 g ± 0.2 g
- Weight: 6.5 g

DL-301 High Performance MC Type Phonograph Cartridge.

- DENON's unique sophisticated vibration system permits excellent trackability over a wide frequency range. 
- A special elliptical solid diamond stylus (0.077 mm x 0.144 mm). 
- Further improves channel separation.

SPECIFICATIONS

- Type: Moving coil type
- Output voltage: 0.3 mV (1 kHz, 50 mm/sec)
- Frequency response: 20 Hz – 60 kHz
- Output impedance: 40 Ohm (20 kHz)
- Load impedance: More than 100 kΩ
- Channel separation: 100 dB or more
- Channel sensitivity difference: Special elliptical tip stylus (0.04 x 0.07 mm)
- Stylus tip: 15 x 10⁻⁶ cm³/ dynes
- Stylus force: 1.3 g ± 0.2 g
- Weight: 4.7 g
**POA-3000 “Class A” Power Amplifier**

- Output stage delivers incredibly high 100W of “class A” output power per channel.
- DENON’s newly patented “real bias circuit” occupies exceptionally high efficiency with high output power.
- Newly developed direct DC servo control circuit eliminates drift of DC off set voltage, while reducing noise and distortion.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Class A operation power amplifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output power</td>
<td>25W + 25W (6.0)</td>
</tr>
<tr>
<td>180W per channel min. RMS, both channel driven, at 8 ohms from 20 Hz to 20 kHz, no more than 0.006% total harmonic distortion</td>
<td></td>
</tr>
</tbody>
</table>

Less than 0.003% 5 Hz—100 Hz (T.H.D. 0.02%)
100 Hz cohorts |

- **Input sensitivity/impedance**
  - 0.7V RMS |
  - 22,110 ohm |

- **Damping factor**
  - 206 (1 kHz) |

- **SN ratio**
  - Better than 122 dB (HFA) |

- **Transmission characteristic**
  - Separation: 350WVA |
  - AC: 120V/60Hz AC: 220V/50 Hz |

- **Dimensions**: 460 (W) x 195 (H) x 459 (D) mm |

- **Weight**: 34 kg

---

**-2000 “Non-NFB Equalizer” Pre-Amplifier.**

- Newly developed “non-NFB real time equalizer amplifier” eliminates the time delay distortion inherent in the NFB-type pre-amps. TIM distortion: 0.003%, IM distortion: 0.002%. DENON’s real time flat amplifier achieves incredibly small RIAA deviation from 20 Hz to 100 kHz = 0.2 dB. Built-in MG cartridge head amplifier with performance indentical to the DENON Model HA-1000.

---

**PMA-950 “Class A” Integrated Amplifier**

- High performance class A amplifier and this real bias circuit ensures outstanding efficiency and high output power. Super wide range equalizer amplifier achieves incredibly RIAA deviation from 20 Hz—100 kHz = 0.2 dB. Capacitorless design for all signal circuits from phone input to speaker output. Real drive circuit reduces distortion during speaker drive by 1/50. Improving S/N ratio and reduce distortion with direct DC servo circuit.

**SPECIFICATIONS**

- **Type**: POWER AMPLIFIER SECTION
- **Output power**: 86W per channel, min. RMS, both channel driven, at 8 ohms from 20 Hz to 20 kHz, no more than 0.01% total harmonic distortion

- **Intermodulation distortion**
  - Less than 0.004% 100 Hz / 1 kHz / 4 kHz /1 at rated output

- **Power bandwidth**
  - Both channels driven:
    - 5 Hz—110 kHz (T.H.D. 0.035%)
    - 1 Hz—250 kHz + 0.5 dB

- **Input sensitivity/impedance**
  - Less than 0.033% (20Hz—20kHz)

- **SN ratio**
  - Better than 95 dB (HFA) |

- **Frequency response**
  - Better than 85 dB (20 Hz—20 kHz) |

- **Dimensions**: 106 (W) x 77 (H) x 108 (D) mm |

- **Weight**: 15 kg

---

**PMA-550 “Direct A” Integrated Amplifier**

- Power stage with a non-switching direct servo circuit uses DENON’s zero cross linear bias system to deliver a generous 100W of output power per channel. Perfect RIAA characteristics over 20 Hz—100 kHz ±0.2 dB range. Direct DC servo circuit eliminates capacitors from all signal circuit to improve S/N ratio and reduce distortion.

**SPECIFICATIONS**

- **Type**: POWER AMPLIFIER SECTION
- **Output power**: 100W per channel, min. RMS, both channel driven, at 8 ohms from 20 Hz to 20 kHz, no more than 0.02% total harmonic distortion

- **Intermodulation distortion**
  - Less than 0.008% 100 Hz / 1 kHz / 4 kHz /1 at rated output

- **Power bandwidth**
  - Both channels driven:
    - 5 Hz—100 kHz (T.H.D. 0.035%)
    - 1 Hz—250 kHz + 0.5 dB

- **Input sensitivity/impedance**
  - Less than 0.033% (20Hz—20kHz)

- **SN ratio**
  - Better than 85 dB (HFA) |

- **Frequency response**
  - Better than 85 dB (20 Hz—20 kHz) |

- **Dimensions**: 106 (W) x 77 (H) x 108 (D) mm |

- **Weight**: 15 kg
PMA-540 "Direct A, Real Drive Circuit" Integrated Amplifier
- Non-switching power amplifier delivers 60 W + 60 W power output. Super equalizer amplifier provides a wide RIAA deviation from 20 Hz to 100 kHz ±0.2 dB. Real drive circuit reduces distortion during speaker drive by 1/50. Newly developed real time tone control circuit prevents deterioration in high fidelity, tonal characteristics. Provided with A, B speaker system for individual ON-OFF switch.

SPECIFICATIONS
- **POWER AMPLIFIER SECTION**
  - **Type:** All-stage direct DC servo circuit
  - **Output power:** 65 W per channel. Minimum RMS channel driven, ±1 dB deviation from 20 Hz to 20 kHz, no more than 0.09% total harmonic distortion. Intermodulation distortion: 10/100 Hz, 1 kHz: 0.1%.
  - **Frequency response:** 1.6 Hz to 200 kHz, ±0.5 dB.
  - **Input sensitivity/impedance:** 0.003V (±1 dB).
  - **PRE AMPLIFIER SECTION**
    - **Max. output/total output:** PHONO MM: 2.5 mV/100 kΩ, MC: 0.25 mV/100 kΩ.
    - **TONE CONTROL:** PHONO MM: 150 mV/40 kΩ, MC: 120 mΩ.
    - **TONE CONTROL:** LOW: 100 Hz, 10 dB.
    - **Power supply:** 110 V, 60 Hz.
    - **Dimensions:** 445 x 115 x 350 (W x D x H) mm.
    - **Weight:** 8.7 kg.

TU-520 "Servo Locked" AM/FM Stereo Tuner

SPECIFICATION
- **FM section**
  - **Tuning frequency:** 1800 kHz.
  - **Usable sensitivity:** 0.75 μV.
  - **Effective selectivity:** 1 kHz.
  - **S/N ratio:** 84 dB.
  - **Total harmonic distortion:** 1.5%.
  - **Capture ratio:** 15 dB.
  - **Image rejection:** 110 dB.
  - **IN rejections:** 110 dB.
  - **Frequency response:** 55 kHz.
  - **AM section:** 1 kHz.
  - **Power supply:** 120 V, 60 Hz.
  - **Dimensions:** 434 x 193 x 300 (W x D x H) mm.
  - **Weight:** 4.9 kg.

DRA-600 "Class A Amplification, Synthesized Tuning" AM/FM Stereo Receiver
- Newly designed class A amplifier with large output power 60W + 60W. Quartz-PLL frequency synthesizer for accurate tuning. Built-in head amplifier for MC type cartridge. Elegant center design. (ACA-3 side wooden cabinet (optional)).

SPECIFICATIONS
- **Power amplifier section**
  - **Type:** All-stage direct DC servo circuit
  - **Output power:** 50W + 50W
  - **Intermodulation distortion:** 0.009%
  - **Frequency response:** 2 kHz to 20 kHz, ±3 dB
  - **Input sensitivity/impedance:** 100 mV/40 kΩ
  - **TONE CONTROL:** LOW: 100 Hz, 10 dB.
  - **Power supply:** 110 V, 60 Hz.
  - **Dimensions:** 445 x 115 x 350 (W x D x H) mm.
  - **Weight:** 8.7 kg.

PMA-510 "High c/p Direct A" Pre-main Amplifier
- Highly efficient non-switching power amplifier delivers large output power of 50W per channel. Super equalizer amp and non-switching power amp. 2-stage pre-main amp equipped with direct DC servo circuit substantially improves S/N ratio while reducing distortion. Super equalizer amplifier offers surprising width of reproduction.
**DP-60L ‘DENON Quartz’ Auto Lift D.D. Turntable.**

- Low mass straight tonearm provides superb tonal quality with improved trackability.  
- Replaceable with attached S-shaped type tonearm.  
- Turntable motor controlled by DENON's magnetic speed detection and quartz-controlled phase-locked servo control system for accuracy and stability.  
- Tonearm is automatically lifted at the end of the record by an angular-control motor.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Drive system:</th>
<th>Direct drive by AC servo motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed control:</td>
<td>Servo control with frequency detection</td>
</tr>
<tr>
<td>Speed:</td>
<td>33-1/3 rpm, 45 rpm</td>
</tr>
<tr>
<td>Speed deviation:</td>
<td>Less than 0.002%</td>
</tr>
<tr>
<td>Wow/flutter:</td>
<td>Less than 0.005%</td>
</tr>
<tr>
<td>Rumble:</td>
<td>Less than 76 dB (DIN-B)</td>
</tr>
<tr>
<td>Turntable platter:</td>
<td>Aluminum alloy diecast 300 mm</td>
</tr>
<tr>
<td>Tonearm type:</td>
<td>Straight and S-shaped type</td>
</tr>
<tr>
<td>Effective length:</td>
<td>14 mm</td>
</tr>
<tr>
<td>Overhang:</td>
<td>0.6 - 2.5 g (0.1 g direct reading)</td>
</tr>
<tr>
<td>Stylus force range:</td>
<td>1.2 - 15 g (including shell)</td>
</tr>
<tr>
<td>Acceptable weight of cartridge:</td>
<td>AC 120 V 60 Hz</td>
</tr>
<tr>
<td>Power supply:</td>
<td>of AC 120V-240V 50Hz/60Hz 15W</td>
</tr>
<tr>
<td>Weight:</td>
<td>455 W x 180 H x 410 (D) mm</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>13 kg</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Drive system:</th>
<th>Direct drive by AC servo motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed control:</td>
<td>Servo control with frequency detection</td>
</tr>
<tr>
<td>Speed:</td>
<td>33-1/3 rpm, 45 rpm</td>
</tr>
<tr>
<td>Wow/flutter:</td>
<td>Less than 0.004%</td>
</tr>
<tr>
<td>Rumble:</td>
<td>Less than 76 dB (DIN-B)</td>
</tr>
<tr>
<td>Turntable platter:</td>
<td>Aluminum alloy diecast 300 mm</td>
</tr>
<tr>
<td>Tonearm type:</td>
<td>Straight and S-shaped type</td>
</tr>
<tr>
<td>Effective length:</td>
<td>16 mm</td>
</tr>
<tr>
<td>Overhang:</td>
<td>0.6 - 2.5 g (0.1 g direct reading)</td>
</tr>
<tr>
<td>Stylus force range:</td>
<td>1.3 - 21 g (including shell)</td>
</tr>
<tr>
<td>Acceptable weight of cartridge:</td>
<td>AC 120 V 50 Hz</td>
</tr>
<tr>
<td>Power supply:</td>
<td>of AC 220V-240V 50Hz 15W</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>435 W x 140 H x 430 (D) mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>9.5 kg</td>
</tr>
</tbody>
</table>

**DP-33F ‘DENON Quartz’ Fully Automatic D.D. Turntable.**

- Electronic servo-controlled tonearm automatically functions without affecting performance whatsoever.  
- Newly developed servo lifter minimizes impact on stylus when lowering onto or lifting from the disc.  
- Highly accurate speed detection with exclusive magnetic recorded system with quartz-lock.  
- Convenient front panel controls permits operation with dust cover closed.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Drive system:</th>
<th>Direct drive by AC servo motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed control:</td>
<td>Servo control with frequency detection</td>
</tr>
<tr>
<td>Speed:</td>
<td>33-1/3 rpm, 45 rpm</td>
</tr>
<tr>
<td>Speed deviation:</td>
<td>Less than 0.002%</td>
</tr>
<tr>
<td>Wow/flutter:</td>
<td>Less than 0.005%</td>
</tr>
<tr>
<td>Rumble:</td>
<td>Less than 76 dB (DIN-B)</td>
</tr>
<tr>
<td>Turntable platter:</td>
<td>Aluminum alloy diecast 300 mm</td>
</tr>
<tr>
<td>Tonearm type:</td>
<td>Straight and S-shaped type</td>
</tr>
<tr>
<td>Effective length:</td>
<td>14 mm</td>
</tr>
<tr>
<td>Overhang:</td>
<td>0.6 - 2.5 g (0.1 g direct reading)</td>
</tr>
<tr>
<td>Stylus force range:</td>
<td>1.2 - 15 g (including shell)</td>
</tr>
<tr>
<td>Acceptable weight of cartridge:</td>
<td>AC 120 V 60 Hz</td>
</tr>
<tr>
<td>Power supply:</td>
<td>of AC 120V-240V 50Hz/60Hz 15W</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>455 W x 180 H x 410 (D) mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>13 kg</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Drive system:</th>
<th>Direct drive by AC servo motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed control:</td>
<td>Servo control with frequency detection</td>
</tr>
<tr>
<td>Speed:</td>
<td>33-1/3 rpm, 45 rpm</td>
</tr>
<tr>
<td>Wow/flutter:</td>
<td>Less than 0.004%</td>
</tr>
<tr>
<td>Rumble:</td>
<td>Less than 76 dB (DIN-B)</td>
</tr>
<tr>
<td>Turntable platter:</td>
<td>Aluminum alloy diecast 300 mm</td>
</tr>
<tr>
<td>Tonearm type:</td>
<td>Straight and S-shaped type</td>
</tr>
<tr>
<td>Effective length:</td>
<td>16 mm</td>
</tr>
<tr>
<td>Overhang:</td>
<td>0.6 - 2.5 g (0.1 g direct reading)</td>
</tr>
<tr>
<td>Stylus force range:</td>
<td>1.3 - 21 g (including shell)</td>
</tr>
<tr>
<td>Acceptable weight of cartridge:</td>
<td>AC 120 V 50 Hz</td>
</tr>
<tr>
<td>Power supply:</td>
<td>of AC 220V-240V 50Hz 15W</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>435 W x 140 H x 430 (D) mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>9.5 kg</td>
</tr>
</tbody>
</table>

**DP-55K ‘DENON Quartz’ Armless D.D. Turntable.**

- Ultra-high quality turntable featuring quartz phase-locked control plus DENON’s highly precise magnetic detection system for speed accuracy smooth sure electronic brake system.  
- Furnished with a newly designed base for maximum isolation from unwanted vibrations.

**Specifications**

<table>
<thead>
<tr>
<th>Drive system:</th>
<th>Direct drive by AC servo motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed control:</td>
<td>Servo control with frequency detection</td>
</tr>
<tr>
<td>Speed:</td>
<td>33-1/3 rpm, 45 rpm</td>
</tr>
<tr>
<td>Wow/flutter:</td>
<td>Less than 0.004%</td>
</tr>
<tr>
<td>Rumble:</td>
<td>Less than 76 dB (DIN-B)</td>
</tr>
<tr>
<td>Turntable platter:</td>
<td>Aluminum alloy diecast 300 mm</td>
</tr>
<tr>
<td>Power supply:</td>
<td>of AC 120 V 60Hz</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>10.6 W x 100 H x 425 (D) mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>13 kg</td>
</tr>
</tbody>
</table>

**DP-30LS ‘Auto Lift’ D.D. Turntable.**

- Smooth arm lifter with angular control motor.  
- Easy-to-use front panel controls.  
- New material for the base prevents acoustic feed back.  
- Statically balanced S-shaped tonearm, (black).  
- Auto lift mechanism with non-contact record and sensor.

**Specifications**

<table>
<thead>
<tr>
<th>Drive system:</th>
<th>Direct drive by AC servo motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed control:</td>
<td>Servo control with frequency detection</td>
</tr>
<tr>
<td>Speed:</td>
<td>33-1/3 rpm, 45 rpm</td>
</tr>
<tr>
<td>Wow/flutter:</td>
<td>Less than 0.004%</td>
</tr>
<tr>
<td>Rumble:</td>
<td>Less than 76 dB (DIN-B)</td>
</tr>
<tr>
<td>Turntable platter:</td>
<td>Aluminum alloy diecast 300 mm</td>
</tr>
<tr>
<td>Tonearm type:</td>
<td>Straight and S-shaped with automatic arm lift</td>
</tr>
<tr>
<td>Effective length:</td>
<td>16 mm</td>
</tr>
<tr>
<td>Overhang:</td>
<td>0.6 - 2.5 g (0.1 g direct reading)</td>
</tr>
<tr>
<td>Stylus force range:</td>
<td>1.3 - 21 g (including shell)</td>
</tr>
<tr>
<td>Acceptable weight of cartridge:</td>
<td>AC 120 V 50 Hz</td>
</tr>
<tr>
<td>Power supply:</td>
<td>of AC 220V-240V 50Hz 15W</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>435 W x 140 H x 430 (D) mm</td>
</tr>
<tr>
<td>Weight:</td>
<td>9.5 kg</td>
</tr>
</tbody>
</table>
**DP-80 “DENON Quartz” Split Platter Construction D.D. Turntable**

- **DENON quartz.** Split platter construction eliminates external vibrations. Smooth autotuner 3-phase AC servo motor creates virtually no vibration. Pulse-width modulation driving system consumes very little power and offers improved S/N ratio.

**SPECIFICATIONS**

- **Drive system:** Direct drive by 3 phase AC servo motor
- **Speed Control:** Frequency detection servo system phases locked to a quartz crystal oscillation
- **Speed:** 33 1/3 rpm, 45 rpm
- **Speed deviation:** Less than 0.005%
- **Wow/flutter:** Less than 0.015%
- **Rumble:** Less than 0.015%
- **Turntable platter:** Newly developed double-construction Platter aluminum alloy diecast 300 mm dia.
- **Power supply:** 100/200/240V 50/60 Hz 36W

**HA-500 MC Head Amplifier “-157 dB Input Signal-to-Noise Level”**

- Advanced circuit technology virtually eliminates T.J.M. • The unbelievable S/N ratio is the result of using a super-low-noise transistor for the first stage. • The amazing dynamic range of 141 dB is accomplished by using class A operation circuit in the final stage.

**SPECIFICATIONS**

- **Input Impedance:** 600Ω
- **Output Impedance:** 24 dB/600Ω 12 dB/600Ω 12 Hz – 20 kHz
- **Frequency response:** Better than 2.5 kHz
- **Input sensitivity:** 12 dB/600Ω
- **Phase characteristics:** Better than 0.05° at 20 kHz
- **Dimensions:** 17W x 17H x 41D (mm)
- **Weight:** 2.2 kg

**AU-340 MC Step-up Transformer “High Performance Super Permalloy Core”**

- Wide band range and minimum distortion are made possible by using a high performance super permalloy core. • Independent multi-shield for right/left channels.

**SPECIFICATIONS**

- **Step-up ratio:** 1:12 (400 Hz, 1:32 (30 Hz)
- **Primary impedance:** 30, 40Ω
- **Secondary impedance:** 4 Ω
- **Frequency response:** 10 Hz – 20 kHz (+0.5, –1.0 dB)
- **Distortion:** 0.08% (20 Hz – 20 kHz, 45Ω)
- **Dimensions:** 125W x 71H x 212 (mm)
- **Weight:** 2.1 kg

**AU-320 MC Step-up Transformer “High S/N Ratio”**

- High performance model designed to extract excellent performance from a wide variety of MC cartridge. • Two types of input impedances, plus two pairs of inputs.

**SPECIFICATIONS**

- **Step-up ratio:** 1:1 (at 400 Hz), 1:20 (45Ω)
- **Primary impedance:** 30, 40Ω
- **Secondary impedance:** 4 Ω
- **Frequency response:** 10 Hz – 100 kHz (+1 dB)
- **Phase characteristics:** 20 Hz – 50 kHz (±1° or less)
- **Dimensions:** 17W x 85H x 155 (mm)
- **Weight:** 600 g

**AU-310 MC Step-up Transformer**

- Excellent phase, distortion and crosstalk characteristics, extremely flat, and wide frequency response. • High S/N ratio achieved through the use of double-shielding.

**SPECIFICATIONS**

- **Step-up ratio:** 1:10 (at 400 Hz), 1:40Ω
- **Primary impedance:** 40Ω
- **Secondary impedance:** 40Ω
- **Frequency response:** 20 Hz – 40 kHz (±1 dB)
- **Phase characteristics:** 20 Hz – 40 kHz (±1° or less)
- **Dimensions:** 31W x 53H x 181 (mm)
- **Weight:** 800 g
DA-401 Light Weight Low Effective Mass Tonearm

- Light weight tonearm — effective mass 7.5 g
- Dynamic damping mechanism

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Overall length:</th>
<th>Effective mass:</th>
<th>Overhang:</th>
<th>Tracking error:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>322 mm</td>
<td>7.5 g</td>
<td>14 mm</td>
<td>2.5 g (max)</td>
</tr>
<tr>
<td>Head shell</td>
<td>0.1 g</td>
<td>Non-contact magnetic control anti-skating device</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acceptable cartridge</td>
<td>4—10 g</td>
<td>styled force: 2 g or less</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DA-307 Dynamically Damped Tonearm

- Non-contact magnetic control anti-skating device
- Dynamic damping mechanism

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Overall length:</th>
<th>Effective mass:</th>
<th>Overhang:</th>
<th>Tracking error:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>322 mm (max)</td>
<td>14 mm</td>
<td>40—70 mm</td>
<td>2.5 g (max)</td>
</tr>
<tr>
<td>Head shell</td>
<td>0.5—2.5 g direct reading (Verrier dial type)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acceptable cartridge</td>
<td>10 g</td>
<td>Magnetic control type</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DK-300 Universal Turntable Base

- Heavy weight base excellent for eliminating feedback and resonance
- Dimensions: 555(W) x 183(H) x 453(D) mm
- Weight: 14kgs

DK-110 Universal Turntable Base

- Heavy weight base for reducing the acoustic feedback and resonance
- Dimensions: 555(W) x 183(H) x 453(D) mm
- Weight: 10kgs

AD-3 Record Weight

Dimensions: 355 x 229 x 139 mm
Weight: 14kg

ARC-75 Interior Center Rack

AH-9 Open Type Stereo Headphone

AH-7 Open Type Stereo Headphone

AH-5 Open Type Stereo Headphone

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Impedance</th>
<th>Sensitivity</th>
<th>Max. input</th>
<th>Frequency response</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open earcup design</td>
<td>dynamic stereo headphone</td>
<td>600 Ω</td>
<td>103 dB (900 mW)</td>
<td>100 mW</td>
</tr>
<tr>
<td>20 Hz - 22,000 Hz</td>
<td>100 g (without cord)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PCL-7 Magnesium Alloy Head Shell

- Weight: 6.5 g

PCL-5 Magnesium Alloy Diecast Head Shell

- Weight: 9 g

PCL-4 Aluminum Alloy Head Shell

- Weight: 9 g

All specifications are subject to change for improvement without prior notice.

NIPPON COLUMBIA CO., LTD.

NO. 14-14, AKASAKA, 4-CHOME MINATO-KU, TOKYO, 107, JAPAN.

No 2A

Printed in Japan