Accuphase

SUPER AUDIO CD PLAYER

DP-85

- Totally separate SCAD/CD transport and processor sections
- Single lens/twin pickup high-speed access mechanism
- Digital processor ready for new-generation source formats
- MDS type D/A converter with extraordinary conversion precision
- Transport section outputs and digital inputs
- Option board slots for added versatility
Integrated SACD/CD player with HS-Link. Ready for new-generation formats such as 2.8224 MHz/1 bit and 192 kHz/24 bits. Revolutionary MDS (Multiple Delta Sigma) converter. Transport section with dedicated DSP for digital servo control and single lens/twin pickup high-speed access mechanism. Entirely separate construction of transport and processor sections, with HS-Link and coaxial transport output and digital inputs.

The Super Audio CD (SACD) is now the pinnacle format of pure audio. Based on the expertise gained with the separate type SACD/CD player combo DP-100 and DC-101, Accuphase developed the DP-85 using the latest advances in digital technology. The result is an integrated SACD/CD player of the highest quality. The DP-85 lets you fully enjoy the amazing dynamic range of SACD/CD sources. The superb sound quality is sure to capture the heart of any audiophile.

The transport section of the DP-85 features a dedicated DSP for the digital servo circuitry and a single lens/twin pickup high-speed mechanism for totally accurate signal readout and almost instantaneous access time. The processor section is ready for the latest word in quality such as 2.8224 MHz/1-bit and 192 kHz/24-bit sources. The MDS (Multiple Delta Sigma) D/A converter employs multiple strictly selected delta sigma units in a parallel configuration, assuring unprecedented conversion precision.

Although housed in one enclosure, the SACD/CD transport section and the processor section of the DP-85 can be used entirely independent of each other, thanks to the HS-Link and coaxial outputs and the digital inputs. Slots for option boards are provided as well, resulting in unsurpassed versatility for no-compromise reproduction of music. The DP-85 represents digital audio at its best, allowing the audio connoisseur to rediscover what music is all about.
Supports new generation formats with high sampling rates such as 2.8224 MHz/1 bit and 192 kHz/24 bits.

MDS type D/A converter achieves stunning performance and sound quality.

D/A converter with printed circuit boards made from Teflon (glass fluorocarbon resin) with low dielectric constant and low loss.

Ultra jitter-free PLL circuit topology.

Fully separate processor section with coaxial and optical digital inputs.

Ultra high-speed digital coupler ensures effective separation between digital and analog sections.

Digital level control with an adjustment range of 0 dB to –60 dB.

Balanced and unbalanced analog outputs.

Further Improved MDS Type D/A Converter

MDS (Multiple Delta Sigma) is a revolutionary design which employs several delta sigma type converters in a parallel configuration. In the combined output of these multiple converters, conversion errors cancel each other out, resulting in a drastic improvement in all relevant aspects of converter performance: accuracy, S/N ratio, dynamic range, linearity, THD, etc.

For the DP-85, this principle has been further refined by enhancing the current-to-voltage converter in the signal adder section for even better stability and top-notch performance.

The DP-85 uses six delta sigma converters in parallel, which results in an overall performance improvement by a factor of $2.45 = \sqrt{6}$.

Supplied remote commander RC-28

Functions include input switching, output level adjustment, direct play, repeat, program, shuffle, etc.
A total of four option board slots are provided on the rear panel (three for input/output boards and one for EXT DSP). This makes it possible to utilize the high-quality digital processor to reproduce the signal from other digital components as well. A wide variety of boards are available to suit the requirements of any system.

- Install HS-Link Input Board for connection to DP-100
- Use EXT DSP option board slot for connection to Digital Voicing Equalizer DG-28
- Remarks

For copyright reasons, the SACD signal from the DP-85 or a SACD/CD signal supplied via HS-Link does not appear at any other output (except HS-Link) and can therefore not be recorded digitally.

- Any option board can be installed in any slot.
- For details on board installation and usage, please refer to the instruction manual of the DP-85.
- The input connectors on each board serve as digital input to the processor section.

### Front panel

- Track/index indicator
- Time indicator
- Output level indicator
- Disc tray open/close button
- Play button
- Pause button
- Stop button
- SACD/CD selector button
- Power switch

### Rear panel

- Option board expansion slot

### Option Boards

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### Guaranteed Specifications

- **[Transport Section]**
  - Compatible disc formats: 2-channel Super Audio CD, CD
  - Data read principle: Non-contact optical pickup
  - Laser diode wavelength:
    - SACD: 780 nm
    - CD: 808 nm
  - Digital outputs:
    - Suitable cable: Dedicated HS-Link cable
    - Digital inputs:
      - 2.8224 MHz (1 bit 2-channel DSD)
      - 176.4 kHz, 192 kHz (24 bits, 2-channel PCM)
      - (16 to 24 bits, 2-channel PCM)
      - 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
      - Implemented by option board:
        - 32 kHz, 44.1 kHz: 1.0 kHz, 32 kHz, 44.1 kHz, 88.2 kHz
        - 88.2 kHz, 96 kHz: 1.0 kHz, 16 kHz

- **[Digital Processor Section]**
  - COAXIAL Format: EIAJ CP-1201/AES-3 compliant
  - OPTICAL Format: EIAJ CP-1201 compliant
  - Sampling frequencies:
    - 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
    - Implemented by option board:
      - 192 kHz: 1.4856 MHz
      - 1.92 MHz: 1 bit 2-channel DSD
      - 2.8224 MHz (1 bit 2-channel DSD)
  - D/A converter:
    - 24-bit MDS converter
  - Frequency response: 0.5 - 50,000 Hz, 0.2 dB (20 kHz)
  - Total harmonic distortion: 0.0003% (20 to 20,000 Hz)
  - Signal-to-noise ratio: 116 dB (20-bit input, low-pass filter off)
  - Dynamic range:
    - 112 dB (24-bit input, low-pass filter off)
  - Channel separation:
    - 108 dB (20 to 20,000 Hz)
  - Output voltage and impedance:
    - Balanced: 2.5 V at 50 ohms, balanced XLR type
    - Unbalanced: 2.5 V at 50 ohms, RCA phono jack
  - Output level control: 0 to 60 dB in 1 dB steps (digital)

- **[General]**
  - Power requirements:
    - AC120 V/230 V (Voltage as indicated on rear panel) 50/60 Hz
  - Power consumption: 25 W
  - Maximum dimensions:
    - Width 475 mm (18-11/16") x Height 150 mm (5-7/8") x Depth 397 mm (15-5/8")
  - Weight: 9.2 kg (42.3 lbs) net, 25.0 kg (55.0 lbs) in shipping carton

### Optional Cables

- HS-Link cable
- HDL-15 (1.5 m)
- Toslink optical fiber cable
- LG-10 (1 m)
- HPC balanced cables
- HLC-10 (1 m)
- HLG-10 (1 m)
- HPC optical fiber cable (ST)

### Specifications and design subject to change without notice for improvements.


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