

COMPACT DISC PLAYER

DP-57

● MDS++ D/A converter achieves amazingly low distortion and superb S/N ratio ● Jitter-free high-performance digital demodulator ● 3-pole analog filter with outstanding phase characteristics ● Two sets of digital inputs ● Two sets of transport outputs ● Fully digital control of CD mechanism ● Balanced drive circuitry for servo motors



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A player dedicated to CD playback — Fully independent transport and digital processor sections. MDS++ type D/A converter for even better performance. Optical and coaxial digital inputs and transport outputs provide added flexibility. Fully digital control of CD mechanism achieves optimization of servo parameters in real time.

The DP-57 was created by further refining the Accuphase model DP-55V using the very latest in digital technology. The end product is a player solely dedicated to reproducing Compact Disc sources with impeccable quality.

Although the number of discs released in SACD format is increasing, the CD which boasts a history of over 20 years is still the main source format for music lovers the world over. The "capability to reproduce existing CDs with even higher sound quality" was a wish often voiced by audiophiles, and Accuphase has responded by further strengthening its lineup of dedicated CD players. As a result of intensive and innovative research, Accuphase helps listeners rediscover the immense musical potential of the CD, by making discs sound as lively and detailed as never before.

The DP-57 features totally separate CD transport and processor sections, allowing individual use of each. The processor employs an ultra-precise



CO 48

Display example for coaxial input

24-bit D/A converter using a newly developed MDS++ converter. This takes the MDS (Multiple Delta Sigma) principle pioneered by Accuphase to new heights. All electrical characteristics have been further improved, as exemplified by minimal distortion, extremely low noise, and superb linearity.

The outstanding sound quality and high performance of the processor section can be accessed also by external digital components, via the optical and coaxial digital inputs. The high conversion accuracy of the D/A converter ensures that any digital signal will be reproduced with optimum fidelity. The transport section is also equipped with two outputs (optical and coaxial). This allows connection of a digital recorder for formats such as CD-R, DAT, or MD, to record the signal from the CD transport of the DP-57 in the digital domain.

CD Transport Section Features and Functions

■ Fully digital control of CD mechanism

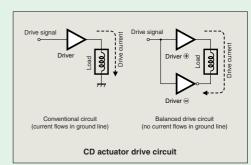
Control of the mechanism section is fully digital, allowing the use of adaptive circuits to optimize servo performance for each individual disc. This results in a drastically reduced error rate and enhanced operation stability, even when the ambient temperature fluctuates.

■ Laser pickup with integrated RF amplifier

The pickup used in the DP-57 employs a miniature RF amplifier which is so compact that it can be directly mounted in the photodetector pickup assembly. This provides a high-level output signal free from noise interference, which in turn reduces the error rate.

■ Balanced drive circuitry for servo

The motors and actuators which move the disc tray, spindle, sled, and the focussing and tracking assembly are driven by two amplifiers arranged in a balanced configuration. Because there is no circuit flowing in the ground line, the operation of other circuits in the player remains entirely unaffected.

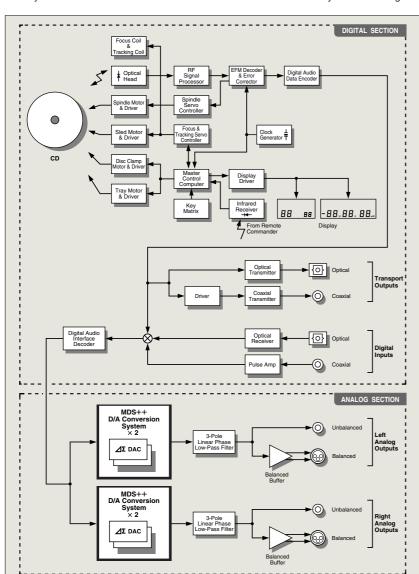


■ Tray lock prevents resonances

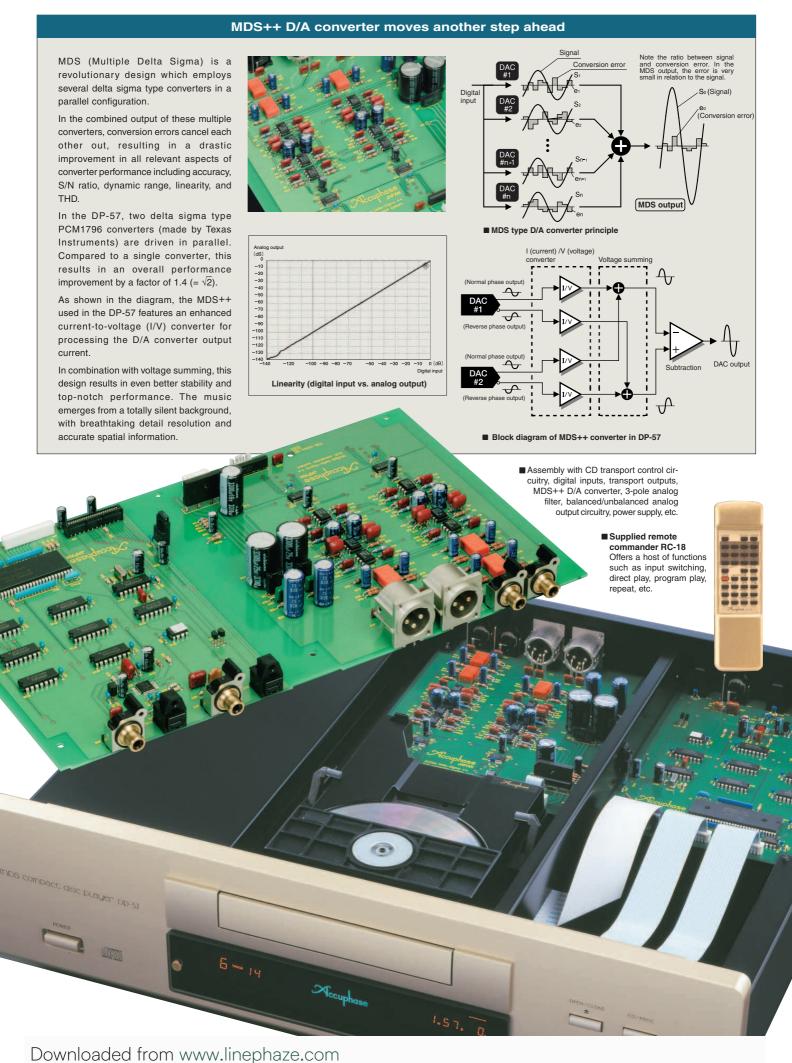
If the disc tray which is used to slide the disc into the unit resonates due to vibrations generated in the rotating assembly while the disc is playing, signal quality can be degraded. In the DP-57, the tray is firmly secured during playback, to eliminate any possibility of harmful resonances.

■ Power-on play and frame display

"Power-on play" means that the DP-57 can start playback when power is turned on, allowing automatic playback in conjunction with an audio timer. For precise location of any spot on a disc, the player can display frame information (1 frame = 1/75 second), and functions such as repeat can be carried out in steps of



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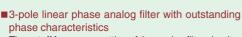
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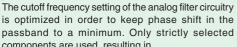
Digital Processor Section Features and Functions

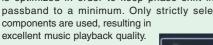
- ■MDS++ type D/A converter achieves stunning performance and sound quality
- Jitter-free high-performance digital demodulator

The demodulator used in the DP-57 for processing the supplied digital signal produces extremely low jitter and significantly reduces any jitter components that Delta Sigma D/A converter may be present in the input signal.











■Two sets of balanced and unbalanced analog output connectors



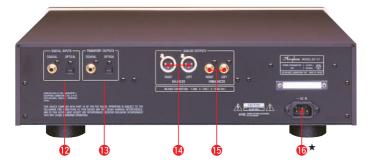
Digital demodulator IC



Balanced and unbalanced analog output connectors



■ Rear panel



- Disc trav
- 2 Disc tray open/close button
- 3 CD transport/processor selector button
- 4 Power switch
- 6 Play track indicator processor operation: digital input indicator
- Track/index indicator processor operation: sampling frequency indicator
- Time indicator
- 8 Output level indicator

- Play/pause button
- Track search buttons processor operation: external input selector buttons
- Stop button
- Digital input connectors (coaxial, optical) (B) Transport output connectors (coaxial, optical)
- Balanced output connectors (analog)
- ① Ground ② Inverted (-)
- 3 Non-inverted (+)
- (5) Unbalanced output connectors (analog)
- 6 AC power connector*

Remarks

- ★ This product is available in versions for 120/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.

 * The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating
- and destination country.
- Supplied accessories:
- AC power cord
- Audio cable with plugs (1 m)
- Remote Commander RC-18

- ■Independent processor section. Coaxial and optical digital input connectors accept signals with a sampling frequency up to 96 kHz and resolution up to 24 bit.
- **■**Coaxial and optical transport output connectors allow direct copy of digital signal from transport section.
- ■"High Carbon" cast iron insulator feet with superior damping characteristics further enhance sound quality



Transport output

NOTES

- O Proper playback (operation/sound quality) of CCCDs is not assured.
 - Copy Control CDs (CCCDs) and other types of discs implementing some form of copyright protection may not play properly on Accuphase CD players, because such discs may not conform to existing CD standards. No assurances are made regarding playback and sound quality when using such discs
 - For detailed information regarding CCCDs, please contact the disc manufacturer
- Only discs conforming to existing CD standards can be played on this player. Check the label on the disc before attempting to use it in this player.

GUARANTEED SPECIFICATIONS

[Guaranteed specifications are measured according to the EIA standard CP-2402.] Measurement disc: CP-24031

CD Transport

Format: Standard CD format

Quantization: 16 bits 44.1 kHz Sampling frequency: Error correction principle: Number of channels: CIRC

Revolution speed: 500 - 200 rpm (constant linear velocity)

Scan velocity: 1.2 - 1.4 m/s, constant Data read principle Non-contact optical pickup (semiconductor laser)

GaAlAs (double heterodyne diode) Laser type

● Transport output level (EIAJ CP-1201) OPTICAL: Output -21 to -15 dBm

Wavelength 660 nm COAXIAL: 0.5 Vp-p, 75 ohms

Digital Processor

EIAJ CP-1201 compatible Input format

16 - 24 bits, linear Quantization: Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz. 96 kHz

Digital input level OPTICAL: Input -27 to -15 dBm (EIAJ CP-1201) COAXIAL: 0.5 Vp-p, 75 ohms ● D/A converter MDS++ type, 24 bits Digital deemphasis

Frequency response 4.0 to 20,000 Hz ±0.3 dB

■ Total harmonic distortion Max. 0.001% (20 - 20,000 Hz, 24-bit input)

114 dB or better Signal-to-noise ratio

Dynamic range 110 dB or better (24-bit input)

Channel separation 110 dB or better

Output voltage and BALANCED: 2.5 V into 50 ohms, balanced XLR type UNBALANCED: 2.5 V into 50 ohms, RCA-type phono jacks

Output level control 0 to -40 dB in 1-dB steps (digital)

General

Power requirements AC 120 V/230 V, 50/60 Hz

(Voltage as indicated on rear panel)

Power consumption 14 W

Maximum Dimensions Width 475.0 mm (19-11/16") 140.0 mm (5-1/2") Height 395.5 mm (15-9/16")

Mass 11.7 kg (25.8 lbs) net

16.0 kg (35.3 lbs) in shipping carton

der RC-18 Supplied Remote Comma Remote control principle:

Infrared pulse Power requirements: 3 V DC, IEC R6 (size AA) batteries × 2 Weight: 100 g (including batteries)

