Accuphase

MDS SA-CD PLAYER

DP-570S

● High-quality SA-CD/CD drive ● MDS+ D/A converter with four parallel circuits using ANCC ● Programmable playlists for playing tracks in a desired order ● Data disc playback ● Direct Balanced Filter with completely separate line and balanced signals ● Display with sampling frequency and number of quantization bits ● Abundant transport outputs and digital inputs ● Digital connections to a voicing equalizer ● Balanced output phase selector

An SA-CD/CD player born from the evolution of ANCC Technology

With a sophisticated design surrounding graceful disc loading, a solid disc drive, and a D/A converter employing unique low-noise, low-distortion ANCC technology, many years of accumulated expertise have created a highly evolved SA-CD/CD player. Ample input and output terminals, programmable playlists that allow you to enjoy music in your preferred order, and digital connections to a voicing equalizer add additional appeal. You will undeniably relish how the DP-570S recreates all your favorite songs.

Technology of Precision

Transporter Features and Characteristics

Accurate reading

Vibration countermeasures in SA-CD/CD players that read audio data from rapidly rotating discs greatly impact sound quality. The DP-570S uses a highly rigid SA-CD/CD drive mounted on a three-ply bottom plate with exceptional vibration dampening capabilities to create a low center of gravity. Additionally, high-carbon cast iron insulators support the structure, preventing the housing from wobbling and significantly reducing external vibrations from reaching the traverse mechanism. The disc loading mechanism supports the traverse mechanism using elastic dampers born from research into shapes and materials. This reduces resonance in the objective lens and actuator that read the discs, thus improving reading precision. Music data is read accurately thanks to these vibration protection technologies and then sent to the digital processor.

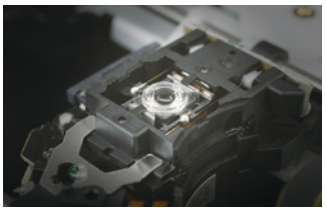
Comfortable listening environment

Creating a quiet listening environment is a critical detail for any SA-CD/CD player. The motor that rotates the discs employs an outer rotor brushless DC motor to minimize vibrations and operating noise. The five-layer large bridge cover surrounding the traverse mechanism also shields against vibrational noise from high-speed disc rotation.

Smooth disc loading

Carved from an aluminum block and then finished with a hard anodized aluminum and satin treatment, the elegant and elaborate disc tray uses high-quality steel bearing shafts to open and close smoothly and quietly.

Traverse mechanism


Objective lens and actuator

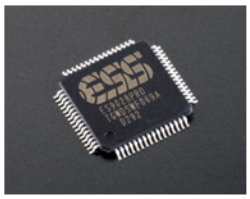
Digital Processor Features and Characteristics

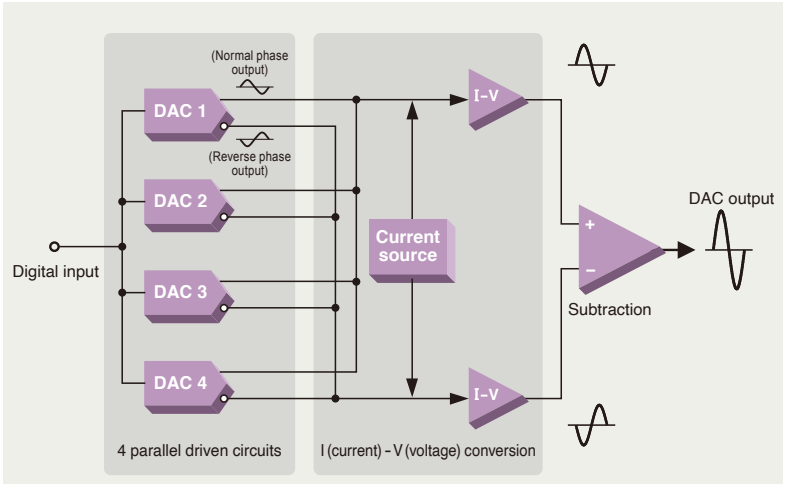
MDS+ D/A converter with four parallel circuits using ANCC

MDS+ drives multiple delta-sigma type D/A converters connected in parallel to provide drastically improved performance. By driving four outputs from a high-performance ES9028PRO DAC chip (ESS Technologies) in parallel, the DP-570S almost doubles (=√4) overall performance for distortion, noise suppression, linearity, etc. Because the improvements provided by the MDS+ principle are independent of signal frequency and level, output signal noise at very low levels can also be minimized, a feat that conventional delta-sigma converters have extreme difficulty achieving. The I-V conversion amplifier uses the low-noise, low-distortion ANCC (Accuphase Noise and distortion Canceling Circuit) principle, further enhancing the effect provided by MDS+.

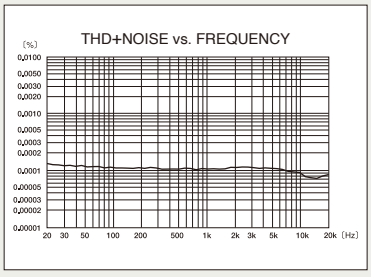
* ANCC is a technology that improves performance by using a sub-amplifier to cancel noise and distortion in the main amplifier.


DAC assembly

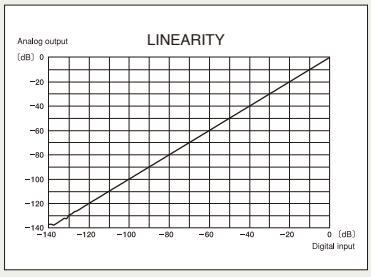

High-performance ES9028PRO DAC chip



MDS+ D/A converter with four parallel circuits



Total harmonic distortion (incl. noise) vs. frequency response



Linearity (digital input vs. analog output)

Direct balanced filter circuit

To output an ideal signal, the DP-570S uses a Direct Balanced Filter circuit with independent line and balanced output circuits.


Filter amplifier assembly

Advanced Features

- High-quality SA-CD/CD drive
- Data disc playback (including DSD discs)
- Digital connections to a voicing equalizer
- MDS+ D/A converter with four parallel circuits using ANCC
- Direct Balanced Filter with completely separate line and balanced signals
- 2 (BALANCED, LINE) analog outputs ····· ①
- Phase selector to invert the balanced output ····· ①
- Ample digital inputs ····· ② (HS-LINK, COAXIAL, OPTICAL, USB)
- Abundant transport outputs ····· ③ (HS-LINK, COAXIAL, OPTICAL)
- Discrete low noise power supply circuits for analog circuits ···· ④
- Large power transformer with separate analog and digital windings ····· ⑤
- Custom-made smoothing capacitors for high sound quality ····· ⑥
- Top plate with aluminum hairline finish ····· ⑦
- High-carbon cast iron insulators ····· ⑧
- Large bridge with 5-layer structure ····· ⑨
- Low center of gravity design with SA-CD/CD drive mounted on a recessed bottom plate ····· ⑩
- Display with sampling frequency and number of quantization bits ····· ⑪
- Programmable playlists so that you can enjoy your music in the order you want ····· ⑫
- Output level adjustment to adjust for differences in output levels with other players ····· ⑬
- High quality audio cable AL-10

①Analog output terminals and balanced output phase selector


④Low noise power supply circuits

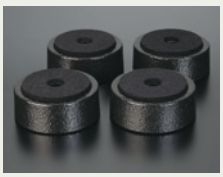
②Digital inputs

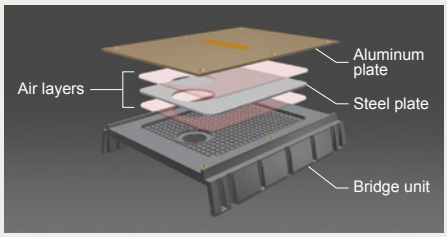
③Transport outputs


⑤Large power transformer

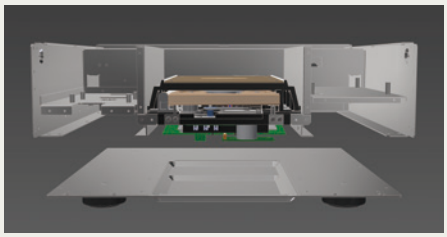

⑥Smoothing capacitors


⑦Top plate

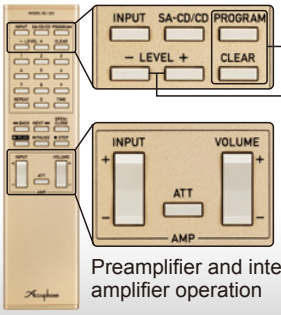

⑧Insulators



⑨Large 5-layer bridge


⑩Low center of gravity design

⑪Sampling frequency and quantization bit display (22.5 MHz/1-bit)



⑫Programmable playlists

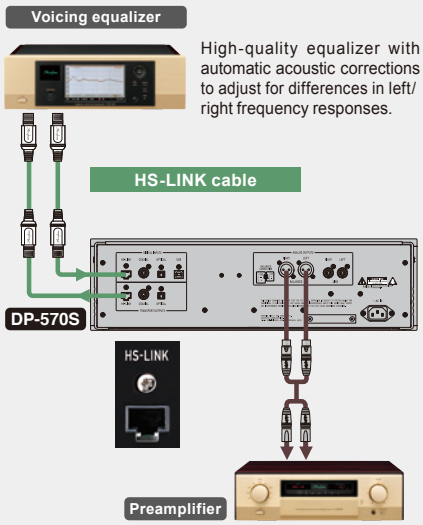
⑬Output level adjustment

Preamplifier and integrated amplifier operation

Remote Commander RC-150 (included)

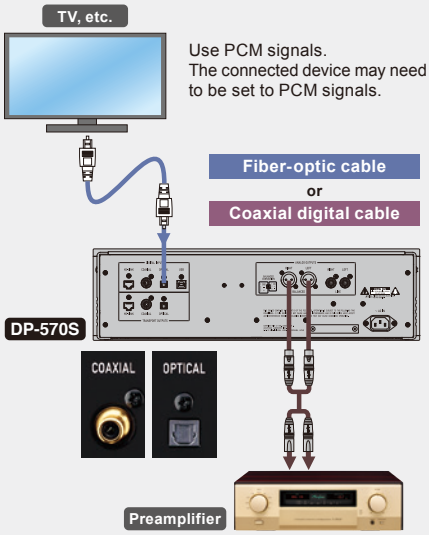
Connecting to a voicing equalizer

Connecting a voicing equalizer between the DP-570S's transport outputs and digital inputs allows for acoustic corrections to the digital signals of CD playback in the digital domain.



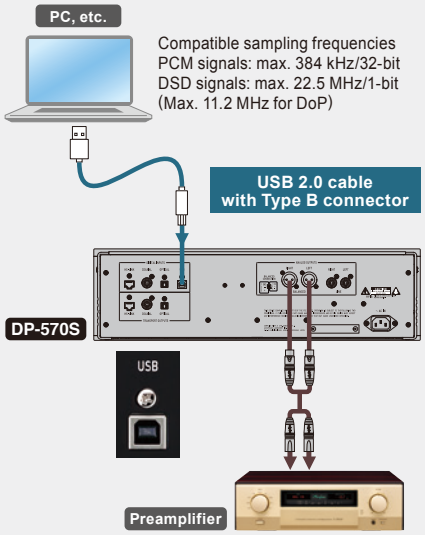
Connecting to TVs, etc.

When connecting to a TV or other device that outputs digital signals, the DP-570S's high-quality D/A converter converts music and speech to analog signals so that you can enjoy them on your stereo system.

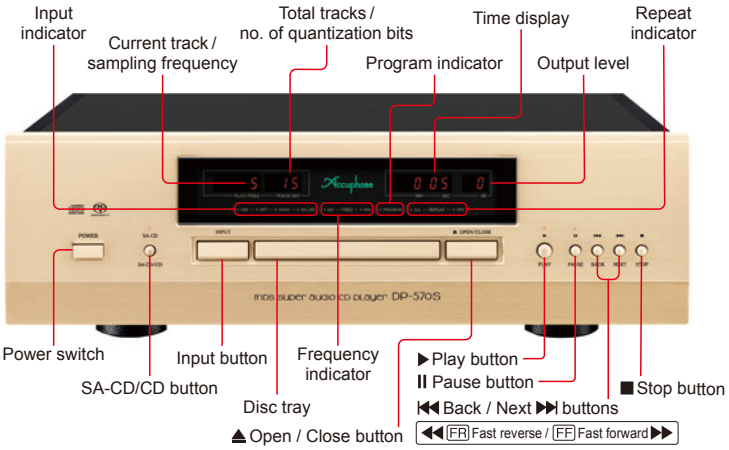


Connecting to PCs, etc.

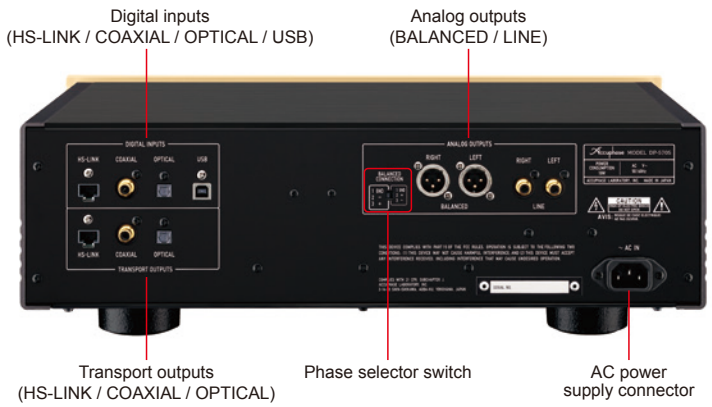
The DP-570S features a USB port (type B) for high resolution data playback when connecting to a PC using a USB cable.



Front Panel



Rear Panel



DP-570S Guaranteed Specifications

Compatible Disc Formats	2-channel Super Audio CD		
	CD		
	Data disc	CD-R/-RW, DVD-R/-RW/+R/+RW	Supported formats: WAV, FLAC, DSF, DSDIFF
Data Read Principle	Non-contact optical pickup		
Laser Diode Wavelength	SA-CD	655 nm	
	CD	790 nm	
Transport Outputs	HS-LINK	Proprietary standard	Dedicated HS-LINK cable
	OPTICAL	JEITA CP-1212 compliant	JEITA standard fiber-optic cable
	COAXIAL	IEC 60958 compliant, AES-3 compliant	75 ohm coaxial digital cable
Digital Inputs	HS-LINK	Proprietary standard	Dedicated HS-LINK cable
	USB	USB 2.0 High-Speed	USB 2.0 cable with Type B connector
	OPTICAL	JEITA CP-1212 compliant	JEITA standard fiber-optic cable
	COAXIAL	IEC 60958 compliant, AES-3 compliant	75 ohm coaxial digital cable

Sampling Frequencies	HS-LINK ver. 1	DSD	2.8 MHz	1-bit
		PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz	16 to 24-bit
	HS-LINK ver. 2	DSD	2.8 / 5.6 MHz	1-bit
		PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 / 352.8 / 384 kHz	16 to 32-bit
	USB	DSD	2.8 / 5.6 / 11.2 / 22.5 MHz (Max. 11.2 MHz for DoP)	1-bit
		PCM	44.1 / 48 / 88.2 / 96 / 176.4 / 192 / 352.8 / 384 kHz	16 to 32-bit
	OPTICAL	PCM	32 / 44.1 / 48 / 88.2 / 96 kHz	16 to 24-bit
	COAXIAL	PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz	16 to 24-bit
D/A Converter	4MDS+ principle			
Frequency Response	0.5 to 50,000 Hz	+0 dB, −3 dB		
Total Harmonic Distortion + Noise	0.0006 %	20 to 20,000 Hz		
Signal-to-Noise Ratio	121 dB			
Dynamic Range	118 dB			
Channel Separation	117 dB	20 to 20,000 Hz		
Output Voltage and Impedance	BALANCED	2.5 V, 50 ohms	Balanced XLR type	
	LINE	2.5 V, 50 ohms	RCA phono jack	
Output Level Control	0 to −80 dB	1 dB steps	Digital	
Power Requirements	120 V, 220 V, 230 V AC (voltage as indicated on rear panel)			
	50/60 Hz			
Power Consumption	18 W			
Maximum Dimensions	Width 465 mm (18.3") × Height 151 mm (6.0") × Depth 393 mm (15.5")			
Mass	Net	18.4 kg (40.6 lbs)		
	In shipping carton	25 kg (56 lbs)		

• Measurement methods for guaranteed specifications conform to JEITA CP-2402A.

Supplied accessories

● **AC power cord (2 m)** ● **Audio cable AL-10 with plugs (1 m)** ● **Remote Commander RC-150**
● **USB Driver 4 CD** ● **USB Driver 4 Setup Guide**

Remarks

★ *This product is available in versions for 120/220/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.*
★ *The 230 V version has an Eco Mode that switches power off after 120 minutes of inactivity.*
★ *The shape of the plug of the supplied AC power cord depends on the voltage rating and destination country.*

• The specifications and appearance of this product are subject to change without notice.

https://www.accuphase.com/

Accuphase
ACCUPHASE LABORATORY, INC.

J2504Y 850-2248-00(B1) PRINTED IN JAPAN