

MDS SA-CD PLAYER

- High-grade SA-CD/CD drive MDS+ type D/A converter with four parallel circuits Direct Balanced Filter with separate line and balanced signal paths
- Programmable playlist
 Sampling frequency and quantization bit display
 Data disc playback
 Numerous transport outputs and digital inputs
 Digital connection with voicing equalizers
 Phase selector for balanced outputs





A high-quality integrated SA-CD/CD player born from a synthesis of the latest technologies

Equipped with quiet and smooth disc loading, the high rigidity and low center of gravity of the SA-CD/CD drive vastly improves readability, while the MDS+ type D/A converter with four parallel circuits accurately reads disc information and converts analog signals. It also supports a digital connection with a voicing equalizer and provides a programmable playlist feature that lets you enjoy listening in the order you prefer. Enjoy listening to the DP-570, the next step in the pursuit of the ideal disc playback experience.

The Technology of Precision

Features and Functions of Transport Section

■ Accurate Reading

A high-rigidity SA-CD/CD drive mounted on a triple layer bottom plate with exceptional vibration reduction properties and all supported by high-carbon cast iron insulators. This configuration creates a strong integrated structure that suppresses the effect of external vibrations on the traverse mechanism. Four newly developed high-quality butyl "elastic dampers" connect the traverse and disc mechanisms, drastically reducing external vibrations from being transmitted to the traverse mechanism and protecting the lens actuator that reads discs. Music information is read accurately thanks to these vibration protection technologies and then sent to the digital processor.

■ Quiet Operation

Vibrations from spinning discs are typically transmitted to the chassis, which then resonates and amplifies the operational sounds. The "elastic dampers" on the traverse mechanism greatly reduce chassis resonance. The five-layer large bridge cover surrounding the traverse mechanism also shields against air-vibration noise from high-speed rotation. This improvement allows the DP-570 to operate quietly without being affected by rotation.

■ Smooth loading

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



Features and Functions of the Digital Processor Section

Traverse mechanism

■ MDS+ type D/A converter with four parallel circuits

The MDS+ (Multiple Delta Sigma+) conversion principle is a revolutionary D/A conversion routing that employs multiple delta-sigma type D/A converters connected in parallel for drastically improved performance. By driving four outputs from a high-performance ES9028PRO DAC chip (ESS Technologies) in parallel, the DP-570 almost doubles (= $\sqrt{4}$) overall performance for distortion, noise, linearity, and more. Because the improvements provided by the MDS principle are independent of signal frequency and level, output signal noise at very low levels is also minimized, a feat that conventional delta-sigma converters find extremely difficult to achieve.



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DAC assembly High-

High-performance ES9028PRO DAC chip

■ Direct Balanced Filter circuit

By making the line output circuits and balance output circuits independent of each other, the Direct Balanced Filter circuit does not affect the output signal even with two preamplifiers connected.



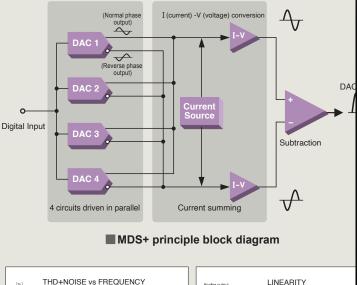
Filter amplifier assembly

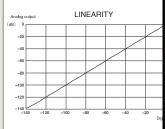
■ High-precision clock playback

The high-performance (digital) audio interface chip AK4118A (Asahi Kasei Microdevices) drastically reduces jitter for high-precision clock playback.



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





Objective lens and actuator

Linearity (digital input vs. analog out

- High-grade SA-CD/CD drive
- MDS+ type D/A converter with four parallel circuits



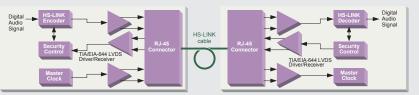
About HS-LINK Version 2

HS-LINK Version 2 is an enhanced version of the Accuphase HS-LINK interface, providing expanded sampling frequency and quantization support.

• The DP-570 supports both HS-LINK Ver. 1 and HS-LINK Ver. 2 signal transmissions.

Input	Format (2-channel)	Sampling Frequencies	Number of bits
HS-LINK	DSD	2.8 MHz	1
(Ver. 1)	PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz	16~24
HS-LINK	DSD	2.8 / 5.6 MHz	1
(Ver. 2)	PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 / 352.8 / 384 kHz	16~32

- *HS-LINK cables can be used both for HS-LINK Ver. 1 and HS-LINK Ver. 2 signal transmissions
- * With HS-LINK Ver. 2, the data and clock signals are transmitted separately, and high sampling frequencies up to 5.6 MHz 1-bit DSD and 384 kHz 32-bit PCM are supported.

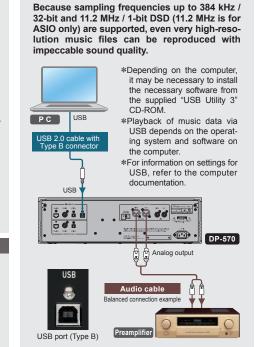


■ HS-LINK Ver. 2 Signal Transmission Block Diagram

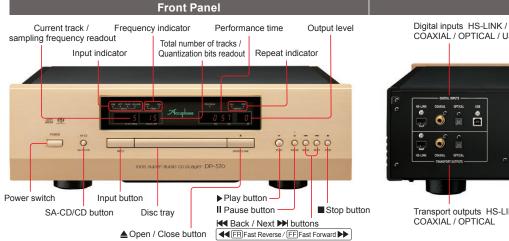
Voicing equalizer connection example

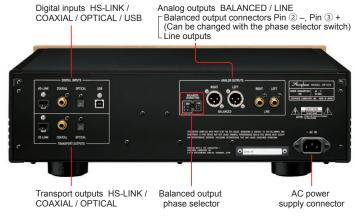
A voicing equalizer can be connected between the transport outputs and digital inputs of the DP-570 (using the HS-LINK, coaxial, or optical connectors). This allows for sound field compensation of the signal from the CD transport output as a digital signal.





Using the USB port





Rear Panel

DP-570 Guaranteed Specifications

[Guaranteed specifications measured according to JEITA standard CP-2402A / Measurement disc: PHILIPS

	2-channel Super Audio CD				
	CD				
Compatible Disc Formats	DSD disc DVD-R/-RW/+R/+RW DSF file form		DSF file format		
	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	SA-CD	655 nm			
Wavelength	CD	790 nm			
Transport Outputs	HS-LINK	Proprietary standard	Dedicated HS-LINK cable		
	OPTICAL	JEITA CP-1212 compliant	JEITA standard optical fiber cable		
	COAXIAL	IEC 60958 compliant	75-ohm coaxial digital cable		
Digital Inputs	HS-LINK	Proprietary standard	Dedicated HS-LINK cable		
	USB	USB 2.0 Hi-Speed (480 Mbps) compliant	USB 2.0 cable with Type B connector		
	OPTICAL	TICAL JEITA CP-1212 compliant JEITA standard optical			
	COAXIAL	IEC 60958 compliant	75-ohm coaxial digital cable		

	Supi	plied	accessories
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- AC power cord
- Audio cable with plugs AL-10
- Remote Commander RC-140
- USB Utility 3 CD USB Utility 3 Setup Guide

3122-783-00632]							
Sampling Frequencies	HS-LINK	DSD	2.8 MHz		1 bit		
	(Ver. 1)	PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4	16 to 24 bits			
	HS-LINK	DSD	2.8 / 5.6 MHz		1 bit		
	(Ver. 2)	PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4	16 to 32 bits			
	USB	DSD	2.8 / 5.6 / 11.2 MHz (11.2 MHz: ASIO only)		1 bit		
		PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 / 352.8 / 384 kHz		16 to 32 bits		
	OPTICAL	PCM	32 / 44.1 / 48 / 88.2 / 96 kHz		16 to 24 bits		
	COAXIAL	PCM	32 / 44.1 / 48 / 88.2 / 96 / 176.4	2 / 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz			
D/A Converter			4MDS+ principle				
Frequency Response			0.5 to 50,000 Hz	+0, −3.0 dB			
THD + Noise			0.0006%	20 to 20,000 Hz			
Signal-to-Noise Ratio			120 dB				
Dynamic Range			117 dB				
Channel Separation		117 dB	20 to 20,000 Hz				
Output Voltage BALANCED		2.5 V 50 ohms	Balanced XLR type				
and Impedance LINE		2.5 V 50 ohms	RCA phono jack				
Output Level Control			0 dB to -80 dB	In 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	19.0 kg (41.9 lbs)			
			In shipping carton	25 kg (55 lbs)			

- 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.

