

Super Audio CD Player

Operating Instructions

SCD-XE800



SUPER AUDIO CD



WARNING

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc. Do not place the naked flame sources such as lighted candles on the apparatus.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

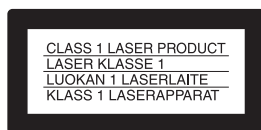
As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.

Caution

The use of optical instruments with this product will increase eye hazard.




This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

Notice for customers: the following information is only applicable to equipment sold in countries applying EU directives.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses given in separate service or guarantee documents.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

 This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.



Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these batteries are disposed of correctly, you will help

prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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Features of the player

This player is designed to play back 2-channel Super Audio CDs, as well as conventional CDs, and provides the following features:

- Equipped with a Discrete Dual Laser Optical Pickup, capable of reading a Super Audio CD or conventional CD, depending on the wavelength.
- Precise reading of disc information due to an advanced servo mechanism.
- A Super Audio D/A Converter, which allows higher-quality sound reproduction.
- A Super Audio CD can mark up to 255 track numbers. This player can take advantage of this feature.

Before you use your Super Audio CD player

- When playing the Super Audio CD (2-channel area) and DSD Disc, no sound is output from the DIGITAL (CD) OUT COAXIAL and DIGITAL (CD) OUT OPTICAL jacks.
- This player will not start playback automatically even if you turn on the power with a disc inserted. Therefore, you can not play a disc back automatically using a timer connected to the AC power cord (mains lead).
- You cannot play back the multi-channel area of Super Audio CD.

Compatible Disc Types

You can play the following types of discs on this player.

- Super Audio CDs (2-channel area)
- Audio CDs
- DSD Discs

This player cannot play the following discs.

- CD-ROMs (MP3, JPEG, etc.)
- DVDs
- DTS-CDs
- DualDiscs, etc.

If you try to play CD-ROMs/DVDs, the error message “Cannot Play” or “No Disc” will appear. For DTS-CDs/DualDiscs, refer to their respective notes below.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Notes on CD-R/CD-RW playback

Discs recorded on CD-R/CD-RW drives may not be played back because of scratches, dirt, recording condition, or the drive’s characteristics. Besides, the discs, which are not yet finalized at the end of recording, cannot be played back. In these cases, “Reading” will remain or “Cannot Play” will appear on the display.

Note on DTS-CDs

DTS signals are output from the DIGITAL (CD) OUT jacks only. The DTS signals must be decoded on a DTS-compliant digital device to be listened to.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Note on DSD Discs

A DSD Disc is a disc recorded in the DSF file format. This player can play DSF files that you have recorded on DVD-ROM compatible DVD-R, DVD-RW, DVD+R and DVD+RW discs. For details on DSD Discs, see page 17.

About the Super Audio CD

Super Audio CD is a new high-quality audio disc standard where music is recorded in the DSD (Direct Stream Digital) format (conventional CDs are recorded in the PCM format). The DSD format, using a sampling frequency 64 times higher than that of a conventional CD, and with 1-bit quantization, achieves both a wide frequency range and a wide dynamic range across the audible frequency range, and so provides music reproduction extremely faithful to the original sound.

Types of Super Audio CD

There are 2 types of Super Audio CDs.

Single layer disc

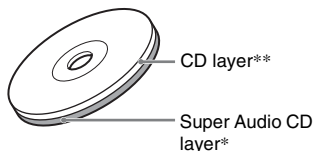
A disc with a single Super Audio CD layer*



Hybrid disc

A disc with a Super Audio CD layer* and a CD layer**. You can select the layer you want to listen to. Since both layers are on one side, it is not necessary to turn the disc over.

You can play the CD layer** on a conventional CD player.



* High density signals of Super Audio CD are recorded on this layer.

**The layer can be played on a conventional CD player.

Channel areas of Super Audio CDs

A Super Audio CD has 2 types of channel areas.

2-channel area

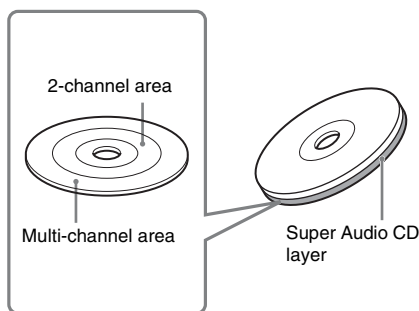
An area in which 2-channel stereo tracks are recorded

Multi-channel area

An area in which multi-channel (up to 5.1 channels) tracks are recorded (This player cannot play back the multi-channel area.)

When the 2-channel area and the multi-channel area are recorded on a Super Audio CD layer

If you have a disc with both areas recorded, you can play back only the 2-channel area.

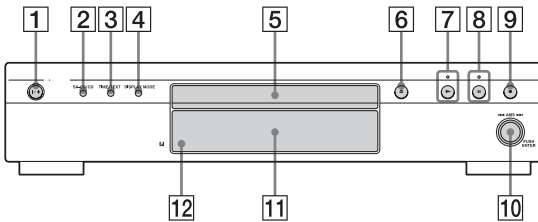


Descriptions of Parts and Controls

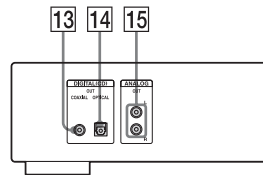
Further details are provided on the pages indicated in parentheses. Instructions in this manual describe the controls on the player. You can also use the controls on the remote if they have the same or similar names as those on the player.

Front Panel / Rear Panel

Front



Rear



Front

- 1 I/⏻ (power) switch (12)**
Turns the power of the player on or off.
- 2 SA-CD/CD button (16)**
Switches between the Super Audio CD layer and the CD layer of a hybrid disc.
- 3 TIME/TEXT button (13)**
Switches the playing time of the track, the remaining time of the disc, or TEXT information on the display.
- 4 DISPLAY MODE button (14)**
Turns the display information on or off.
- 5 Disc tray (12)**
Holds a disc.
- 6 ▲ button (12)**
Opens and closes the disc tray.
- 7 ► button and lamp (12)**
Plays a disc. The lamp lights up during playback.

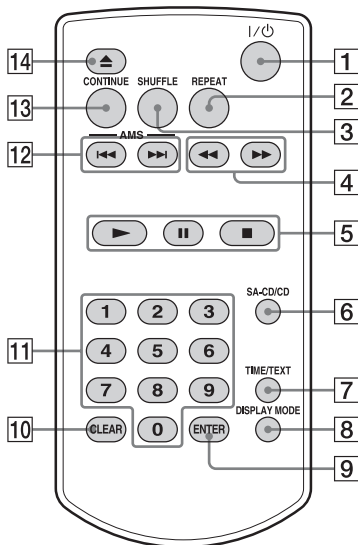
- 8 || button and lamp (12)**
Pauses playback. The lamp lights up during playback pause.
- 9 ■ button (12)**
Stops playback
- 10 ◀▶ AMS ▶▶ dial (AMS: Automatic Music Sensor) (12)**
Rotate the dial to select a track, then press it to start playback.
- 11 Display window (13)**
Displays information on the disc or current track.
- 12 Remote sensor (8)**
Receives the signal from the remote.

Rear

- 13 DIGITAL (CD) OUT COAXIAL jack (10)**
Connects a component with the coaxial digital input jack, such as an MD deck, etc. When playing the Super Audio CD (2-channel area) and DSD Disc, no sound is output from the jack.

- 14 DIGITAL (CD) OUT OPTICAL jack (10)**
Connects a component with the optical digital input jack, such as an MD deck, etc.
When playing the Super Audio CD (2-channel area) and DSD Disc, no sound is output from the jack.
- 15 ANALOG OUT L/R jacks (9)**
Connects a component with analog input jacks, such as stereo amplifiers, etc., using an audio connecting cord.


Remote

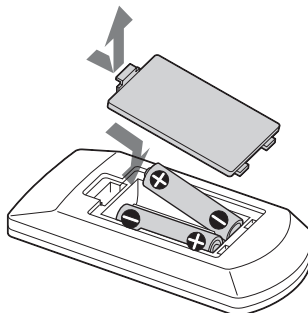


- 1 I/O (power) switch (12)**
Turns the power of the player on or off.
- 2 REPEAT button (15)**
Performs Repeat Play.
- 3 SHUFFLE button (16)**
Performs Shuffle Play.
- 4 <</>> buttons (15)**
Fast-forwards or fast-reverses the track during playback.

- 5 ► button (12)**
|| button (12)
■ button (12)
Plays back discs, pauses playback, and stops playback.
- 6 SA-CD/CD button (16)**
Switches between the Super Audio CD layer and the CD layer of a hybrid disc.
- 7 TIME/TEXT button (13)**
Switches the playing time of the track, the remaining time of the disc, or TEXT information on the display.
- 8 DISPLAY MODE button (14)**
Turns the display information on or off.
- 9 ENTER button (14)**
Select a track directly.
- 10 CLEAR button (15, 16)**
Resumes Continuous Play from Repeat Play or Shuffle Play.
- 11 Number buttons (14)**
Select a track directly.
- 12 AMS <</>> buttons (AMS: Automatic Music Sensor) (12)**
Selects a track.
- 13 CONTINUE button (16)**
Resumes Continuous Play from Shuffle Play.
- 14 ▲ button (12)**
Opens or closes the disc tray.

Inserting batteries into the remote

Insert two R03 (size-AAA) batteries into the battery compartment with the + and – correctly oriented to the markings. When using the remote, point it at the remote sensor  on the player.



Tip

Under normal conditions, the batteries should last for about 6 months. When the remote no longer operates the player, replace both batteries with new ones.

Notes

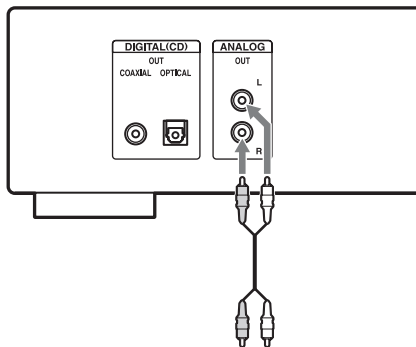
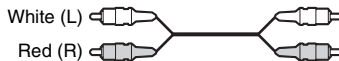
- Do not leave the remote in an extremely hot or a humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatus. Doing so may cause a malfunction.
- If you do not intend to use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Connecting

Connecting a component with analog input jacks

Use the supplied audio connecting cord. Be sure to match the color-coded pin to the appropriate jacks: white (left) to white and red (right) to red. Be sure to turn off the power of all components before making connections, and connect plugs securely to prevent noise.

Audio connecting cord (supplied)

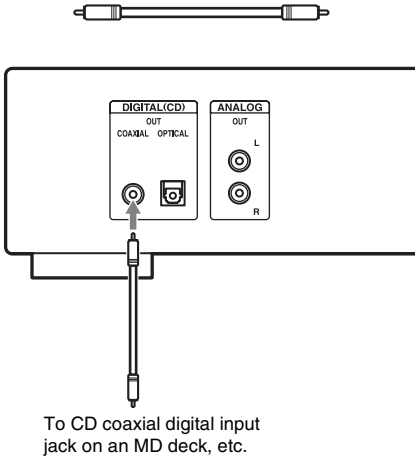


To CD (Super Audio CD) or analog input jacks (L/R) on a stereo amplifier, MD deck, etc.

Connecting a digital component with the coaxial digital input jack

Use a coaxial digital cable for this connection. Be sure to turn off the power of all components before making connections, and connect plugs securely to prevent noise.

Coaxial digital cable (not supplied)



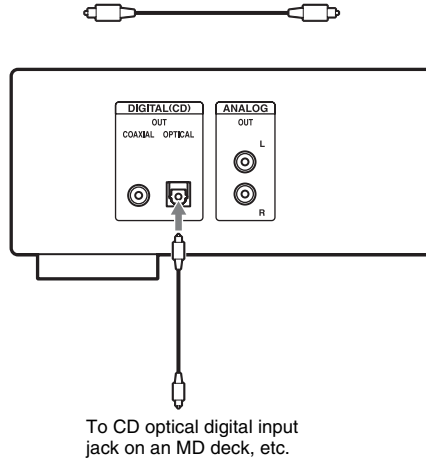
Note

Only the audio signals of conventional CDs can be output from the DIGITAL (CD) OUT COAXIAL jack. Those of Super Audio CDs (2-channel area) and DSD discs cannot be output through the jack.

Connecting a digital component with the optical digital input jack

Use an optical digital cable for this connection. When connecting the optical digital jack cable to the DIGITAL (CD) OUT OPTICAL jack, push the cable plug in until it clicks into place. Be careful not to bend or twist the optical cable.

Optical digital cable (not supplied)



Note

Only the audio signals of conventional CDs can be output from the DIGITAL (CD) OUT OPTICAL jack. Those of Super Audio CDs (2-channel area) and DSD discs cannot be output through the jack.

Connecting the AC power cord (mains lead)

Connect the AC power cord (mains lead) to the AC outlet (mains).

When you connect the AC power cord (mains lead), you may hear relay action noise from inside of the player for a short time, even if the player is not turned on. This is because the player is checking the internal status of the player itself. This is not a malfunction.

Note

Install this system so that the AC power cord (mains lead) can be unplugged from the wall outlet (wall socket) immediately in the event of trouble.

Signals output

2-channel audio of Super Audio CDs and CDs

○: Outputs audio signals.

-: Does not output audio signals.

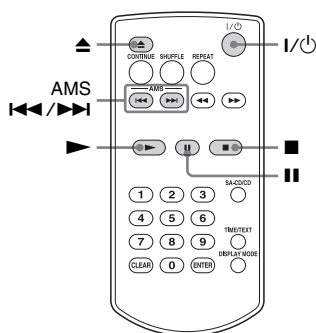
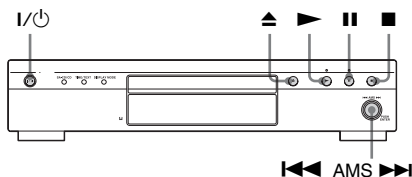
	Output jacks		
	ANALOG OUT L/R	DIGITAL (CD) OUT COAXIAL	DIGITAL (CD) OUT OPTICAL
CD	○	○	○
Super Audio CD (2-channel area*)	○	-	-
DSD disc	○	-	-

* The player does not play a multi-channel area.

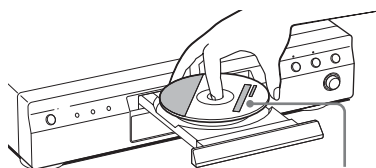
Playing Discs

Playing a Disc

The basic operations are explained below.



- 1** Turn on the amplifier. Turn down the volume level to the lowest.
- 2** Select the player position using the input selector on the amplifier.
- 3** Press I/⏻ on the player to turn on the player.
- 4** Press ▲ on the player to open the disc tray, and place a disc on the tray.



With the label side up

5 Press ▶.

Playback starts from the first track. If you want to start playing from a specific track, turn I◀◀ AMS ▶▶I to select the track number before pressing ▶.

6 Adjust the volume on the amplifier.

Basic operations during play

To	Do the following:
Stop play	Press ■.
Pause play	Press .
Resume play after pausing	Press or ▶.
Select a track	Turn I◀◀ AMS ▶▶I.
Eject a disc	Press ▲.

Note

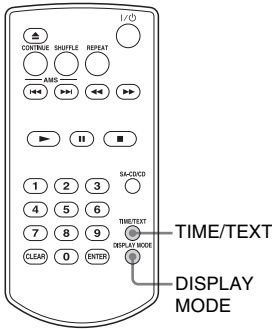
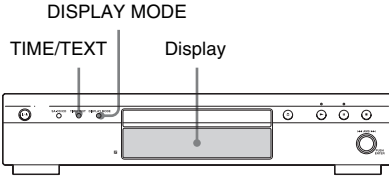
During playback, increase the volume level gradually starting from the lowest level. The output from this player may contain band width that is out of the normal listening range. This may cause damage to the speakers or ears.

Auto standby

The player enters the standby mode automatically when it is in the stop or playback pause without any operation for more than about 30 minutes. "AUTO STANDBY" flashes on the display for 2 minutes before the player enters the standby mode.

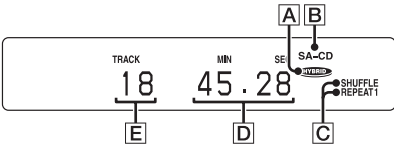
Using the Display

The display shows information about the disc or track being played. This section describes the current disc information and information that appears for each status of the player.



Disc information when a disc is loaded

The display shows the total number of tracks and total playing time.



- A:** Hybrid disc
- B:** Currently loaded disc
- C:** Playback mode
- D:** Total playing time
- E:** Total number of tracks

Displaying the information

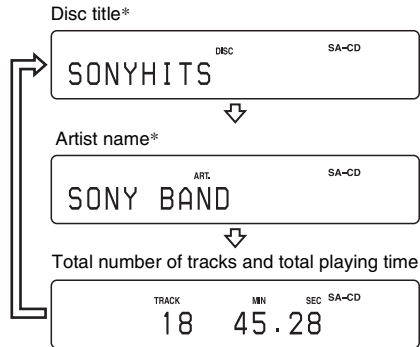
TEXT discs contain information, such as the disc name or artist name, as well as the audio signals. This player can display the disc name, artist name, and current track name as TEXT information.

If a name has 14 or more characters, the first 14 characters will remain after the name scrolls by on the display.

Before you start playing a disc

Press TIME/TEXT repeatedly.

Each time you press the button, the disc name or artist name appears on the display. When you select the artist name, "ART." appears on the display.



* When there is no disc title, or artist name, "NO TEXT" appears.

While playing a disc

Press TIME/TEXT repeatedly.

Playing time of the current track

TRACK	MIN	SEC	SA-CD
1	1	.56	

Remaining time of the current track

TRACK	MIN	SEC	SA-CD
1	-1	.57	

Elapsed time of the disc

MIN	SEC	SA-CD
	1	.56

Remaining time of the disc

MIN	SEC	SA-CD
-43	.32	

Track title*

TRACK	SA-CD
HITECHBLUES	

* When there is no track title, "NO TEXT" appears.

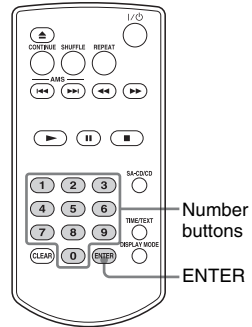
Tip

If you operate buttons to select a track, etc., after you turn off the display, the display turns on for about 2 seconds, and then turns off again.

Locating a Track Directly

— Direct track selection

You can select a track before you start playback.



Notes

- The display may not show all the characters, depending on the disc.
- This player can display only the disc name, artist name, and track names from TEXT discs. Other information cannot be displayed.

Turning off the information on the display

Press DISPLAY MODE on the remote while playing a disc.

Each time you press DISPLAY MODE, the display turns off and on alternately.

When you press DISPLAY MODE to turn off the display, "Display Off" appears and goes out after about 2 seconds. When you press DISPLAY MODE to turn on the display, "Display On" appears and the display appears after about 2 seconds.

The display remains lit during stop or playback pause, irrespective of the display mode.

Press the number button(s) to enter the track number, and press ENTER.

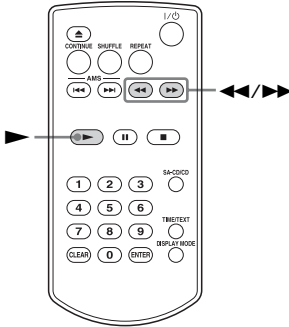
For example,

- to select the 8th track: 8 → ENTER
- to select the 21st track: 2 → 1 → ENTER
- to select the 103rd track: 1 → 0 → 3 → ENTER

Locating a Particular Point in a Track

— Search

You can locate a particular point in a track during playback.



Press **◀◀/▶▶** **on the remote while playing a disc.**

Press **▶▶** to fast-forward, **◀◀** to fast-reverse the track. Each time you press **◀◀/▶▶**, the searching speed becomes faster in 2 steps.

To resume normal playback

Press **▶**.

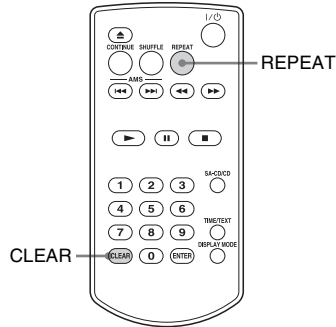
Note

You cannot use the AMS function during “Search.”

Playing Tracks Repeatedly

— Repeat Play

You can play an entire disc or a specific track repeatedly. This function can be used with Shuffle Play to repeat all the tracks in random order (page 16).



Press REPEAT on the remote repeatedly until “REPEAT” or “REPEAT1” appears on the display.

REPEAT:All the tracks on the disc will be repeated. In the Shuffle Play mode (page 16), all the tracks are repeated in random order.

REPEAT1:A single track only is repeated.

To cancel Repeat Play

Press REPEAT on the remote repeatedly until both “REPEAT” and “REPEAT1” disappear, or press CLEAR.

Note

If you do the following operations, Repeat Play is canceled.

- Open the disc tray
- Turn off the player
- Disconnect the AC power cord (mains lead)
- Switch the playback layer of a Super Audio CD and CD

Playing a DSD Disc

This player can play discs that you recorded in DSF file format using a computer, etc.

Requirements for playable DSF files

DSF files must satisfy following conditions to be played on this player correctly.

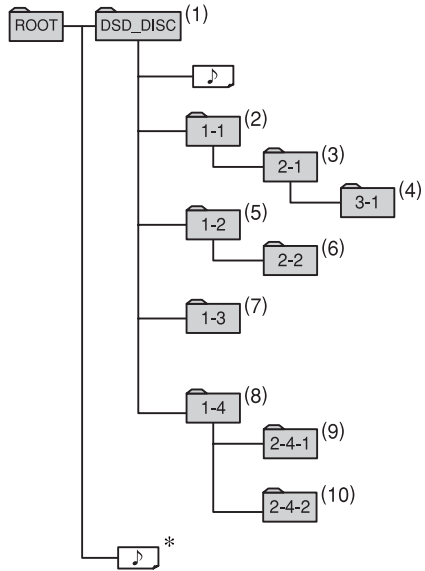
- Disc: DVD-R, DVD-RW, DVD+R, and DVD+RW that are compatible with DVD-ROM specifications
- File extension: dsf
- Folder type: DSD_DISC folder
- Maximum size of a file: up to 4 GB
- Channel: 2-channel
- Maximum number of playable files: up to 150 files per folder
- Maximum number of playable folders: up to 200 folders per disc
- Maximum number of playable layers: up to the 8th layer
- Sampling frequency: 2.8224 MHz

Note

To play a DSD disc, it is necessary to search the entire path each time a file is accessed. Therefore, if there are many folders on the disc, the folder is located deep in the directory, or there are many files in the folder, it may take an extremely long time to access the file. To prevent this situation, it is recommended that you store a DSF file directly in a DSD_DISC folder, and limit the number of files in a folder to 20.

Example of directory structure on a disc

DSF files in each folder are played in the order of (1) to (10) as shown below. The playback order of folders is displayed at “ALBUM” on the display window. The playback order of files is displayed at “TRACK.”



* This file with dsf extension is not played because it is not stored in a DSD_DISC folder.

Playback of a disc

You can play back DSD Discs in the same way as you do with Super Audio CDs. However, you cannot perform the following operations.

- Direct track selection and album selection
- Shuffle Play
- Switching layers between Super Audio CD and CD
- Repeat Play by album
- Playback of files other than DSF files on the disc

Display

When you press TIME/TEXT during playback, the display shows:

Album number/track number/elapsed time of the track



File name

Total number of albums appears in the stop mode.

Additional Information

Precautions

On safety

- Caution – The use of optical instruments with this product will increase eye hazard.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.
- AC power cord (mains lead) must be changed only at the qualified service shop.

On power sources

- Before operating the player, check that the operating voltage of the player is identical with your local power supply. The operating voltage is indicated on the nameplate at the rear of the player.
- If you are not going to use the player for a long time, be sure to disconnect the player from the AC power source (mains). To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.

On adjusting the volume

Do not turn up the volume too much while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

On moisture condensation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about an hour until the moisture evaporates.

On cleaning

Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzene.

On transporting the player

- Before transporting the player, be sure to remove the disc from the player, and close the disc tray.
- Before transporting the player, be sure to disconnect any connecting cables. If any cable is connected, the player and the connected components may be damaged.
- Do not carry the player by taking hold of the AC power code (mains lead), disc tray, or AMS dial. Doing so may cause you to drop or damage the player.

On inserting a disc

When you insert a disc into the player, you may hear a transmission or a mechanical sound from the player. This indicates that the player is automatically adjusting its internal mechanisms according to the inserted disc. You may also hear the mechanical sound from the player when you insert a warped disc.

Note

For Super Audio CD players, it may take a longer time from when a disc is loaded until the disc is played, than that for CD players. This is not a malfunction. Because a Super Audio CD player must determine the type of disc inserted, adjust the servo mechanism, confirm copyright information, etc., automatically, it takes a longer time to start playback of a Super Audio CD.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

Notes on Discs

On handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.



- Use only round-shaped discs. If you use a special shaped disc (e.g., star-shaped, heart-shaped, or square-shaped, etc.), the player may be damaged.
- Do not use a disc with a seal attached on such as on a used disc or rental disc.

On keeping discs

- Do not expose the disc to direct sunlight or heat sources such as hot air ducts.
- After playing, store the disc in its case. If you put it on top of another disc without the case, the disc may be damaged.

On placing discs on the disc tray

Make sure the disc is positioned securely on the tray. If not, the player or the disc may be damaged.

On cleaning

- If the disc is dirty with fingerprints or dust, it may lessen the quality of the audio out.
- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Clean the disc with a soft cloth slightly moistened with water, and remove moisture with a dry cloth.
- Do not use solvents such as benzine, thinner, record cleaners, or anti-static spray.
- Do not use a commercially available cleaning disc or disc/lens cleaner (wet or spray type). These may cause apparatus to malfunction.

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer.

The disc does not play.

- There is no disc inside the player.
- Place the disc on the disc tray with the label side up.
- The disc is placed at an angle. Reload the disc.
- Clean the disc.
- Moisture has condensed inside the player.
Remove the disc and leave the player turned on for about an hour.
- There is an incompatible disc on the tray (page 5).

The player enters the standby mode automatically.

- The player enters the standby mode automatically when it is in the stop or playback pause without any operation for more than about 30 minutes (Auto standby).
“AUTO STANDBY” flashes on the display for 2minutes before the player enters the standby mode.

The remote does not function.

- Remove any obstacles in the path of the remote and the player.
- Point the remote at the remote sensor on the player.
- If the batteries in the remote are weak, replace with new ones.

There is no sound, or the sound is heard intermittently.

- Connect the plugs of all connecting cables securely.
- Make sure that you operate the amplifier correctly.

No sound is output from the DIGITAL (CD) OUT jacks.

- The DIGITAL (CD) OUT jacks do not output the audio signal of Super Audio CDs (2-channel area) and DSD discs (page 10).

Display does not appear.

- The display mode may be set to “Display Off.”
Press DISPLAY MODE (page 14).

A rattling sound is heard from inside the player after turning on the power.

- The player is determining the type of disc or making adjustments. This is not a malfunction.

After you have attempted the prescribed corrective actions

If the player still does not operate properly, or if other problems not described above occur, turn off the player, unplug it from the power outlet for a few minutes, then reinsert the plug into the power outlet.

Specifications

When a Super Audio CD is played

Playing frequency range	2 Hz to 100 kHz
Frequency response	2 Hz to 40 kHz (-3 dB)
Dynamic range	100 dB or more
Total harmonic distortion rate	0.0035 % or less
Wow and flutter	Value of measurable limit (±0.001 % W. PEAK) or less

When a CD is played

Frequency response	2 Hz to 20 kHz (±0.5 dB)
Dynamic range	96 dB or more
Total harmonic distortion rate	0.0039 % or less
Wow and flutter	Value of measurable limit (±0.001 % W. PEAK) or less

Output jacks

	Jack type	Output level	Load impedance
ANALOG OUT L/R	Phono jacks	2 Vrms (at 50 kilohms)	Over 10 kilohms
DIGITAL (CD) OUT OPTICAL*	Square optical output connector	-18 dBm	(Light emitting wave length: 660 nm)
DIGITAL (CD) OUT COAXIAL*	Coaxial output connector	0.5 Vp-p	75 ohms

* Outputs only the audio signals of the CD

General

Laser Diode Properties

Emission duration:
Continuous
Laser Output*: Less than 44.6 μW
* This output is the value measurement at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Power requirements	230 V AC, 50/60 Hz
Power consumption	20 W
Power consumption (during standby mode)	0.5 W
Dimensions (w/h/d)	430 × 95 × 295 mm incl. projecting parts
Mass (approx.)	3.5 kg

Supplied accessories

Audio connecting cord	Red and White plugs (1)
Remote commander	RM-ASU097 (1)
Batteries	R03 (size-AAA) (2)

Design and specifications are subject to change without notice.

- Standby power consumption 0.5 W.
- Halogenated flame retardants are not used in the printed wiring boards.

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