
***T**hank you for purchasing the Cayin CS-100CD compact disc player.*

Used properly and carefully, it should give you many years of outstanding musical reproduction. Please read this user manual carefully before using it.

I OPENING THE PACKAGE

Please check the carton carefully whether there are any damages before you open it. Put it on a flat surface with the arrow upward. Rip away the sealed tape and open the carton, then you'll find:

1. One set of CS-100CD compact disc player
 2. SP-13H remote control unit
 3. Two fuses
 4. One power cord
 5. One user manual
 6. One warranty card
 7. One USB cable
 8. One driver software CD
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II FEATURES

Incorporated two pieces of PCM1792A DAC chip set from TI company for digital filter and D/A converter. A fully balanced design for the output circuit.

Deploy dedicated, high quality Op-Amp for Low pass Filter circuit and I/V converter circuit.

Deploy four pieces of 6922EH vacuum tubes and audio grade capacitors for audio output. Separate tube circuit for Balanced and Unbalanced output.

Deploy one 12DT5 for tube regulation so that it can have a superb power supply for the tube audio circuit.

Versatile digital output and you can select between Optical, Coaxial or AES/EBU digital output.

Deploy USB Audio, Optical, Coaxial or AES/EUB for different input source selection.

Support Coaxial and Optical digital input and it is up to 24 bit/192 kHz.

Employ state of the art high resolution USB Audio technology, will accept and decode Hi-res digital audio through USB interface and support up to 24 bit/192kHz.

Independent power supply to digital circuit and analogue circuit. Reduce power interference among different circuit and make sure all components will have clean power all the time.

III SPECIFICATIONS

1. CD PLAYER:

Support CD, CD-R, 16-bit 44.1kHz

2. Digital Input

Optical input: 16/24-bit 44.1-192kHz

Coaxial input: 0.5V @75 Ω , 16/24-bit 44.1-192kHz

USB Audio :

Compatible with Audio Class 1.0 and Audio Class 2.0.

Support Windows 7® Windows 8® Windows 8.1® Windows 10® and Mac OS(10.6.3 and above)

2. Digital Output

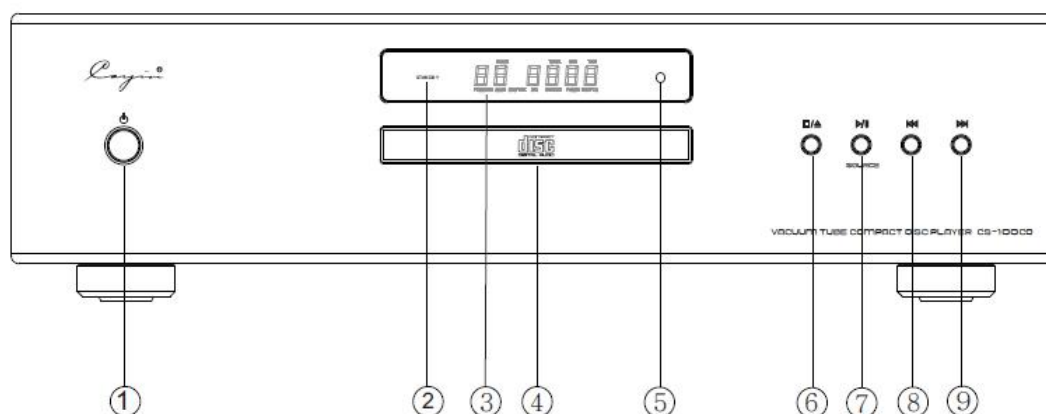
Optical output: 16/24-bit 44.1-192kHz. According to the IEC958 standard.

Coaxial output: 0.5V @75 Ω , 16/24-bit 44.1-192kHz, According to the IEC958 standard.

AES/EBU output: 110 Ω , 16/24-bit 44.1-192kHz, According to the IEC958 standard.

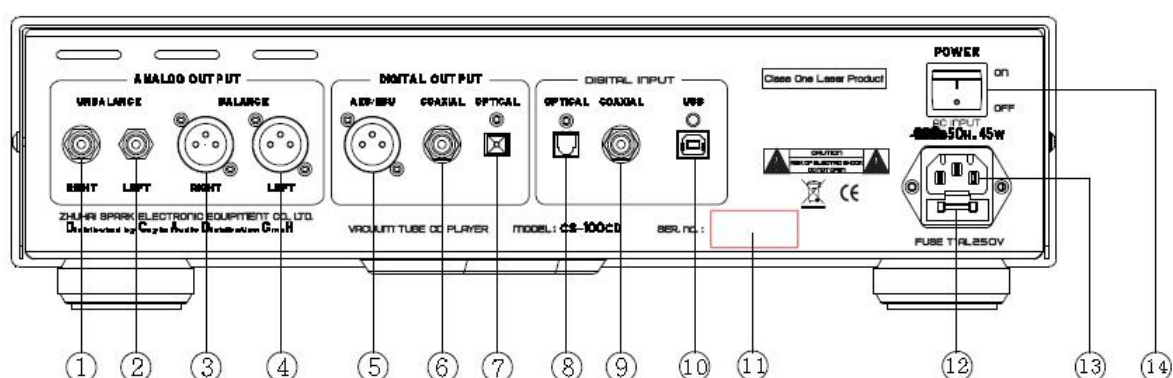
- Output level: 2.3V $\pm$ 2dB
- Frequency response: 20Hz $\sim$ 20kHz $\pm$ 0.5 dB
- Distortion and noise: $\leq$ -60dB
- S/N ratio: >100dB
- Dynamic range: >110dB
- Channel separation(1kHz): <-80dB
- Power requirements: $\sim$ 230V $\pm$ 5% 50Hz
- Weight: $\approx$ 12kg
- Dimension: $\approx$ 420mm $\times$ 372mm $\times$ 117mm
- Power consumption: 45W

IV FRONT PANEL



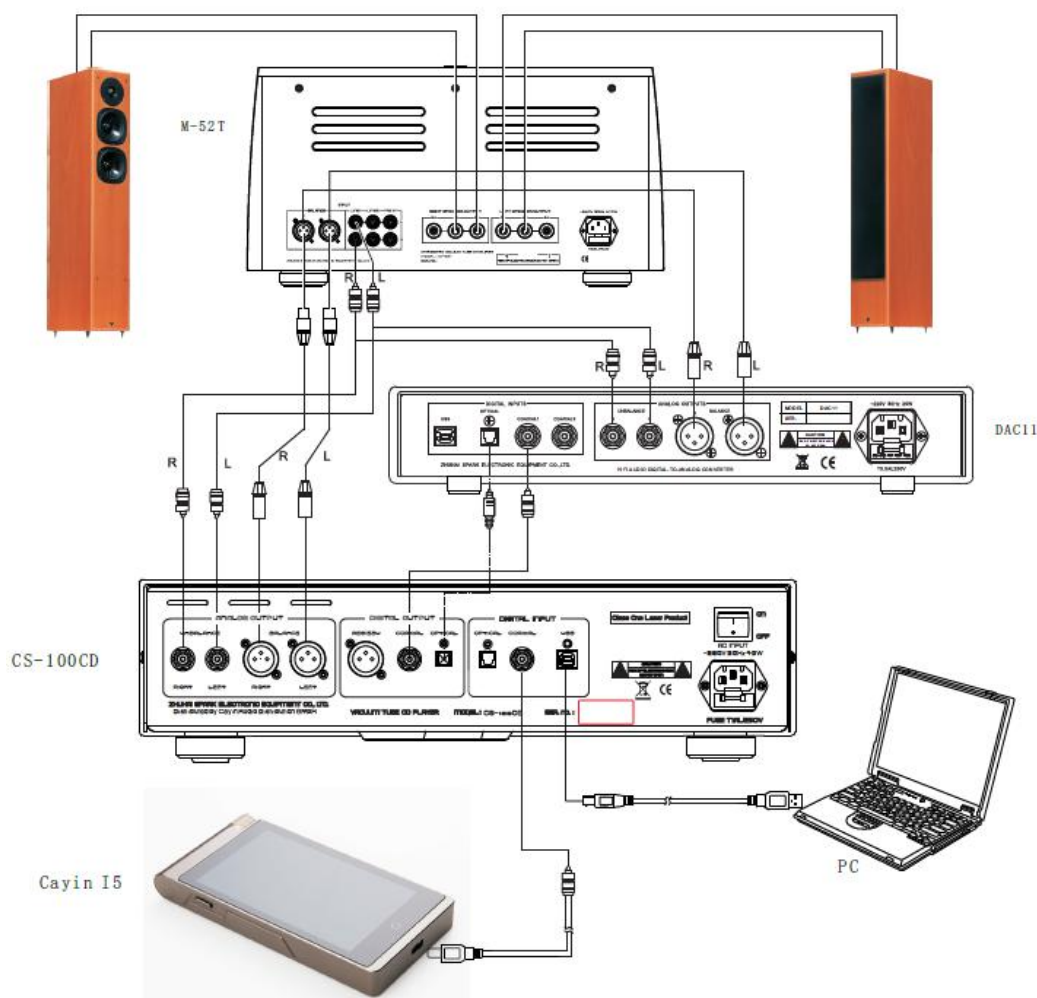
- ① Standby Button
- ② Standby Indicator
- ③ Display
- ④ Disc tray
- ⑤ Remote sensor window
- ⑥ Open/Stop button
- ⑦ Play/Pause button
- ⑧ Skip (previous) button
- ⑨ Skip (next) button

V REAR PANEL



- ① Analog unbalance output (Right channel)
- ② Analog unbalance output (Left channel)
- ③ Analog balance output (Right channel)
- ④ Analog balance output (Left channel)
- ⑤ Digital output (AES/EBU)
- ⑥ Digital output (Coaxial)
- ⑦ Digital output (Optical)
- ⑧ Digital input (Optical)
- ⑨ Digital input (Coaxial)
- ⑩ USB input port
- ⑪ Serial NO.
- ⑫ Fuse Socket
- ⑬ Power socket
- ⑭ Power Switch

V CONNECTION DIAGRAM



1. Connect to computer

Connect the USB port to the USB port of the computer with the USB cable which must be according to the USB2.0 specification. Only the USB port in the rear panel can be used for desktop computer.

2. Connect to power amplifier

Connect the analog output terminal to the analog input terminal of the power amplifier with audio cable.

3. Connect to DAC

Connect the COAXIAL output to the COAXIAL input of the DAC with a standard 75 ohm coaxial digital cable.. Or you can connect the OPTICAL output to the OPTICAL input of the DAC with optical cable. Or you can connect the AES/EBU output to the AES/EBU input of the DAC with AES/EBU cable.

4. Connect to Digital Audio Player

Connect the COAXIAL input to the COAXIAL output of the digital audio player like Cayin N5,N6,i5 etc. with coaxial cable. Or you can connect the OPTICAL input to the OPTICAL output

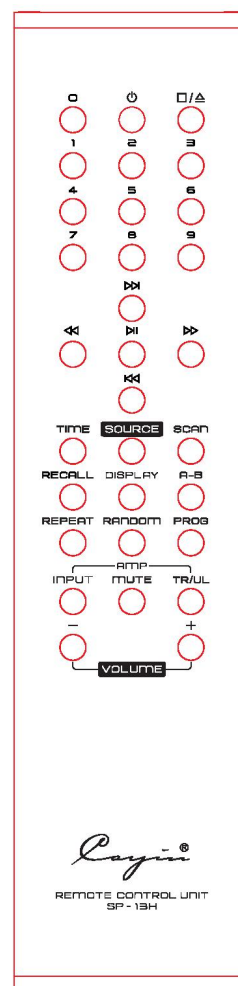
of the digital audio player with optical cable.

Note: Be sure to use at rated voltage. Please check whether the rated voltage marking on the rear panel corresponds to your line voltage. If not, please contact your dealer.

CAUTION: Please shut down the power before connections in case of noise and damage to the unit. You need to wait for about 30 seconds after you turn on the unit every once, because the vacuum tube need to be preheated.

VI REMOTE CONTROL UNIT

- ① “ ■/▲ ”: Stop/Open/Close button
- ② “ ⏻ ” : Standby button
- ③ “0” “1” “2”... “9”: Number button
- ④ “ ▶ / || ” Play/Pause button
- ⑤ “◀◀”: Search (reverse) button
- ⑥ “▶▶”: Search (forward) button
- ⑦ “◀◀”: Skip (previous) button
- ⑧ “▶▶”: Skip (next) button
- ⑨ “TIME”: Time model button
- ⑩ “SOURCE”: SOURCE button
- ⑪ “SCAN”: Scan button
- ⑫ “RECALL”: Recall button
- ⑬ “DISPLAY”: Display button
- ⑭ “A-B”: Section repeat button
- ⑮ “REPEAT”: Repeat button
- ⑯ “RANDOM”: Random button
- ⑰ “PROG”: Program button

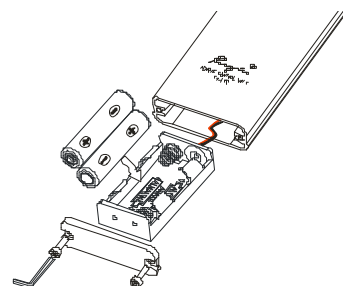


How to install the batteries.

1. Remove the screws in the bottom cover with a screwdriver and open the bottom cover.
2. Put in two batteries with correct polarity.
3. Close the bottom cover and install the screws with a screwdriver.

Note:

- Point the Remote Control Unit at the Remote Sensor on the front panel within about 8 m and within about 30°.
- Do not drop or damp your remote control.
- The life of the batteries is about one year. Please replace the batteries in time.
- Do not mix new and old batteries, or different brands of batteries.
- Remove batteries when this unit is not in use for a long period of time.
- We suggest you to use good quality and high-energy batteries.



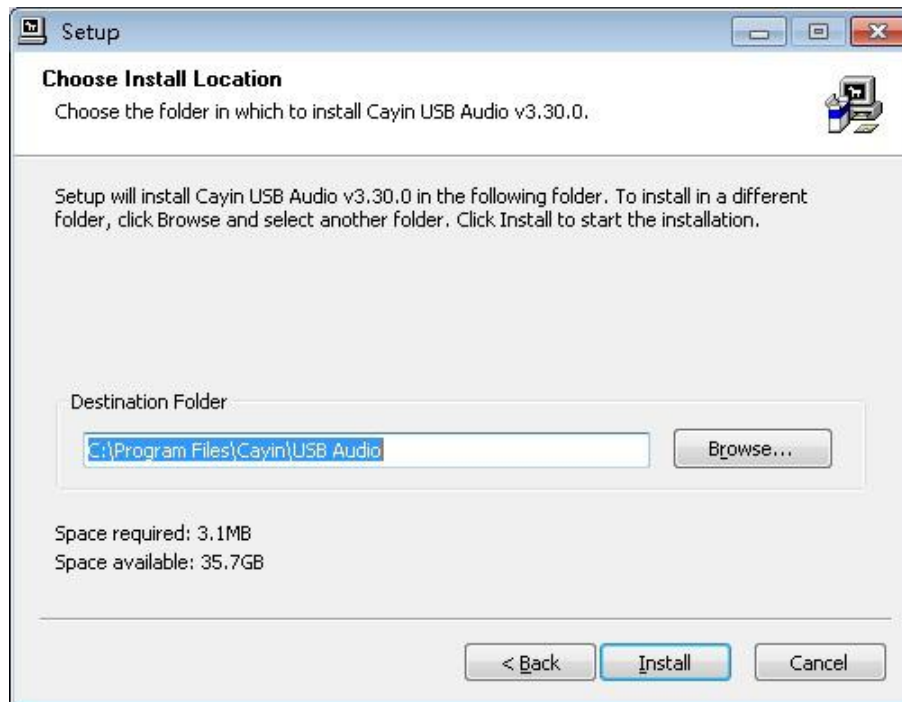
VII INSTALLING DRIVER SOFTWARE

If your computer operation system is Windows, you should install driver to get the function of USB audio before using it.

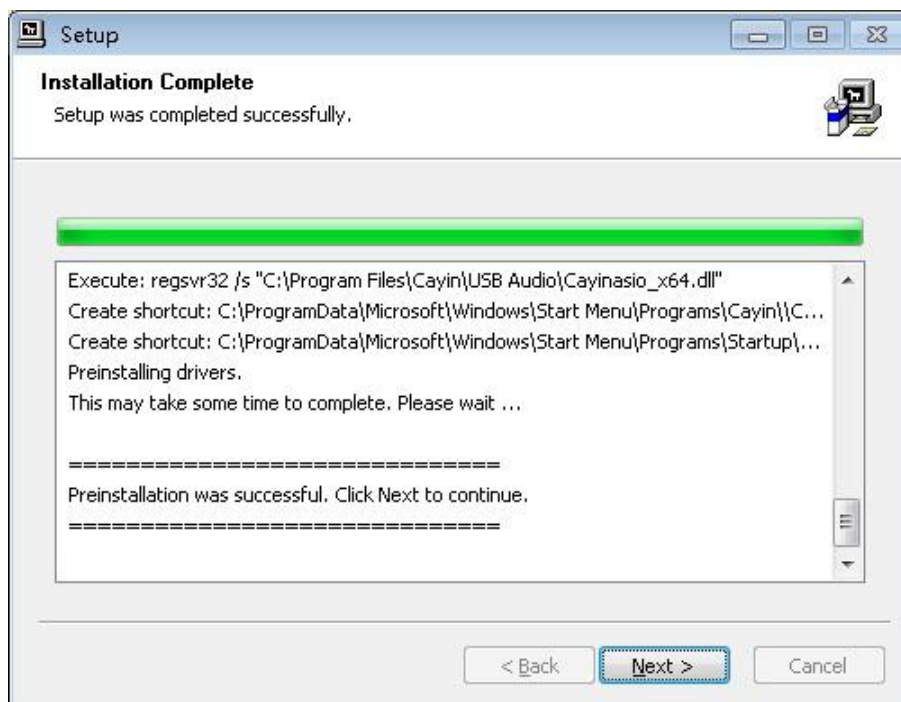
1. Connect the computer to the unit with USB cable.
2. Double-click “” to run the driver installer, As below:



3. Choose the install location, as below:



4. Follow the steps of the installation interface to continue, As below:



5. Click “Next” to install USB Audio 2.0 Class driver.



6. Click “Finish” to complete the installation.

There is no need to install driver software if your computer operation system is Mac.

VIII OPERATION

1. Turning on/off the unit

Press the Power Switch (POWER) on the front panel, the standby indicator will light, and the unit will do self-check. After 5 seconds, the unit will enter the standby mode. Press “⏻” button on the front panel or press the “⏻” button on the remote control unit, the standby indicator will out, and the unit will enter the working state. Press “⏻” button on the front panel or press the “⏻” button on the remote control unit again, the unit will enter standby state.

The unit has shutdown memory function.

- Do not operate during the unit’s self-check.
- During playback, If you want to power off, please remember to stop the disc first.
- Do not power on and off frequently.

Notes: If you need to power on the unit again after power off, please wait for 5 minutes.

2. Select CD player

① Select CD

Press the “▶/||” button on the front panel or press the “SOURCE” button on the remote control unit to select CD state. the display will shows .

② Playback

1. Press the “■/▲” Button on the front panel or the “■/▲” Button on the Remote Control Unit, the Disc Tray will slide out.

2. Place the compact disc in the Disc Tray label-side up.

3. Press the “■/▲” Button on the front panel or the “■/▲” Button on the Remote Control Unit, the Disc Tray will be closed.

4. After the Display indicates the number of tracks on the disc and the total time of the disc, press the “▶/||” Button on the front panel or the “▶/||” Button on the Remote Control Unit to start playing the disc.

③ Pause

- During playback, press the “▶/||” Button on the front panel or the “▶/||” Button on the Remote Control Unit to interrupt the playback temporarily.

- Press the “▶/||” Button again to resume playback from the position where PAUSE mode was entered.

- Even when the player is in PUSE mode, the disk motor is still working. Since leaving the player in this condition can shorten the lifetime of the motor, do not leave the player in PAUSE mode for a long period of time.

④ Stop

1) During playback or in pause mode, press the “■/▲” button on the front panel or the “■/▲” Button on the Remote Control Unit to stop a disc that is playing and resets the player.

⑤ Play the current track

After the unit playback about 5 seconds, press the “⏮” button on the front panel or the “⏮” button on the remote control unit to restart playback the current track.

⑥ Track search

◆ Using the skip buttons

1) Press the “⏭” button advances to the beginning of the next track. If the current track is the last track, press this button advances to the beginning of the first track.

2) Press the “⏮” button returns to the beginning of the previous track. If the current track is the first track, press this button returns to the beginning of the last track.

◆ Using the numeric buttons (Remote only)

1) The first nine tracks on a disc can be selected by selected by pressing the corresponding button.

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- 2) When accessing track numbers equal or greater than 10, press the two buttons of the track numbers in 2 seconds.

For example, to select track 2, press the 2 button. To select track 12, press the 1 button and the 2 button in 2 seconds. After you pressing the 1 button, the unit will wait for the second number for 2 seconds. If the second number is not entered in 2 seconds, the first track will be played.

⑦ Fast forward or fast back (Remote only)

Hold the scan buttons depressed, playback advances or reverses at high speed.

- 1) Hold “▶▶” button depressed for fast- forward operation.
- 2) Hold “◀◀” button depressed for fast-reverse operation.
- 3) Release the scan buttons to start playback at normal speed.

⑧ Repeat (Remote only)

This function allows you to repeat the current track, the memorized program or the entire disc continuously.

- 1) During playback, press the “REPEAT” button once to repeat the current track, the display will show “REPEAT”.
- 2) Press the “REPEAT” button again to repeat the entire disc, the display will show “REPEAT”.
- 3) Press the “REPEAT” button a third time to cancel the repeat function.

⑨ Section repeat (Remote only)

This function allows you to repeat a specified section. You can select the start point and the end point of a section in the current track and repeat it continuously.

- 1) During playback, press the “A-B” button at the start point of the section to be repeated.
- 2) Press the “A-B” button at the end point of the section to be repeated. Playback returns to the beginning of the section and the section is repeated continuously.
- 3) Press the “A-B” button a third time to resume the normal playback.
- 4) During stop, this function cannot be used.

⑩ Recall (Remote only)

Press “RECALL” button after stopping, the unit will play from the track stopped last time.

⑪ Random (Remote only)

- 1) Press “RANDOM” button once, the unit will play from random track, the display will show “SHUFFLE” .
- 2) Press “RANDOM” button again, the unit will return to normal.

⑫ Program (Remote only)

- 1) Press the “PROG” button followed by the track numbers in a specific order, the display will show “PROG” and “”. Two number before “P” expresses current track selected. Two

number after “P” expresses track total number.

- 2) After entering all of the track numbers, press the “PROG” button, your selections will be memorized automatically.
 - 3) Press the “▶/||” button on the front panel or press the “▶/||” button on the remote control unit, the memorized program will play.
 - To stop program play, Press the “■/▲” button during program playback.
- 1 During programming, press the “0” button on the Remote Control Unit can cancel all the memorized program.

⑬ Scan (Remote only)

Press “SCAN” button, the display will show “SCAN”, the unit will play ten seconds of every track from No.1 track.

Press the “■/▲” button on the Remote Control Unit to cancel the scan function.

⑭ Time (Remote only)

Changes the models of time displayed. The first model is the amount of elapsed time played in the current track. The second model is how much time is left on the current track. The third mode counts the time remaining on the entire CD. Simply press the TIME button to switch between these models.

3. Select USB audio

- ① Connect the USB port to the USB port of the computer with the USB cable which must be according to the USB2.0 specification. the display will shows .
- ② In no disc state, press the “▶/||” button on the front panel or press the “SOURCE” button on the remote control unit to select USB, the display will show “USB”, USB input indicator will turn on.
- ③ Select the USB audio device of the computer as CS-100CD Output, and keep it in working state.
- ④ Press the “◀◀” or “▶▶” button on the front panel or press the “◀◀” or “▶▶” button on the remote control unit can show the sample frequency. The sample frequency should be 44.1-192kHz.

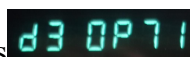
4.Coaxial input

- 1) Connect coaxial input terminal to the device which has coaxial output terminal, like CD Players, with the coaxial cable.
- 2) Press the “▶/||” button on the front panel or press the “SOURCE” button on the remote control unit to enter the coaxial input interface. At the moment, the display will shows .
- 3) Press the “◀◀” or “▶▶” button on the front panel or press the “◀◀” or “▶▶” button on the remote control unit can show the sample frequency. The sample frequency should be 44.1-192kHz.

5. Optical input

- 1) Connect optical input terminal to the device which has optical output terminal, like CD Players, with the optical cable.
- 2) Press the “▶/||” button on the front panel or press the “SOURCE” button on the remote control

unit to enter the optical input interface. At the moment, the display will show



3) Press the “◀” or “▶” button on the front panel or press the “◀” or “▶” button on the remote control unit can show the sample frequency. The sample frequency should be 44.1-192kHz.

6. Brightness adjusting (Remote only)

This function allows you to adjust brightness of display window.

Press “DISPLAY” button every once, the brightness of display window will circularly change from “bright” to “brighter” and “dim”.

IX Maintenance

1. The unit has laser system. In order to prevent the hurt from laser radiation directly, please do not take the CD player apart.
2. Please unplug USB cable when you don't need to use USB Audio.
3. Please comply with this user manual during your operation.
4. You do not need to adjust any parts on this unit.
5. Place the unit on an even and stable place that is well ventilated.
6. Please unplug the power line if you don't need to use the unit for a long time.
7. Be careful not to drop the unit or subject to other strong shocks
 - In a room exposed to sunlight for a long period time.
 - Near a strong light source or a heater.
 - Where there is steam or soot.
 - Where there is dust or humidity or a strongly magnetized object.
8. Do not place anything heavy on the unit.
9. Condensation may form in the unit if:
 - The unit is in a room where the heater has just been turned on.
 - The unit is in a room with steam or high humidity.
 - The unit is brought from cold surroundings into a well-heated room.

If condensation has formed inside the unit, place the unit in a dry surrounding for several hours before using it.

Wipe the body and front panel of the unit with a soft, clean cloth. Please do not use volatile solution for cleaning.

The unit should be used in non-tropical climate area, and the altitude should < 2000m

There should be some space between AC INPUT and the surrounding so as to plug and unplug the power line.

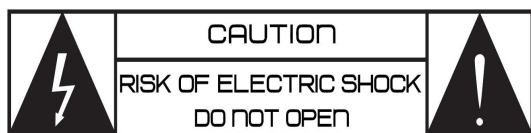
X Precaution

1. The unit support CD/CD-R. We suggest you to use genuine disc.
2. Please keep the disc surface cleaning, and avoid hands touch the surface directly.

3. When you wipe discs, Please move the cloth from the center hole toward the outer edge.
4. If a strange noise or vibration be heard or occur after starting playback, immediately press the Open/Close (or Open/Stop) Button to stop the disc rotation.
5. Please take out the disc from the disc tray when you do not need to use it.

XI Safety Instruction

Anti-electric shock sign: Risk of electric shock, do not open.



With high voltage, may cause man-made electric shock.



The unit has important operation and maintain instruction.

XII TROUBLESHOOTING

If you have checked everything and the unit is still not working, please contact your dealer.

Problem	Cause	Remedy
Cannot power on	With socket bad contact or no power	Check the power socket
	The fuse blew out	Change a same specification resistor
Can't play.	The disc is scratched seriously or dirty.	Change a good disc or clean the disc.
	The disc is placed reversedly or there is dew condensed on the laser head.	Place the disc label-side up. Place the player in a dry surrounding for several hours.

	The disc cannot be identified	Play the discs that can be identified by the player.
No sound.	The signal cables are not connected well.	Connect the signal cables well.
	Just turning on the CD player, the vacuum tubes have not been preheated for enough time.	Wait for about 30 seconds after turning on power.
The function of the remote control is not sensitive	Disturbed by something in surrounding	Remove the disturbing source
	The batteries don't have enough power	Replace the batteries
	There are obstacles between the remote control and the unit	Remove the obstacles
Can't lock the SPDIF signal	SPDIF cable is not connected well	Connect the SPDIF cable well
	No SPDIF signal input	Check if there are any SPDIF signal output from the SPDIF output device
Can't lock the coaxial signal	Coaxial cable is not connected well	Connect the coaxial cable well
	Coaxial cable do not meet the requirements (75Ω)	Replace the coaxial signal line
	No coaxial signal input	Check if there are any coaxial signal output from the coaxial output device
Computer can't recognize the device	The USB line is not according to the USB2.0 specification	Replace the USB line
	USB driver has not been installed	Install the USB driver
	USB driver error	Restart the computer
The sound is abnormal when the input status is USB	USB socket error	Choose another USB socket
	Computer is too busy	Reduce the running application program
	The hardware resource of computer is too low	Upgrade the computer if necessary