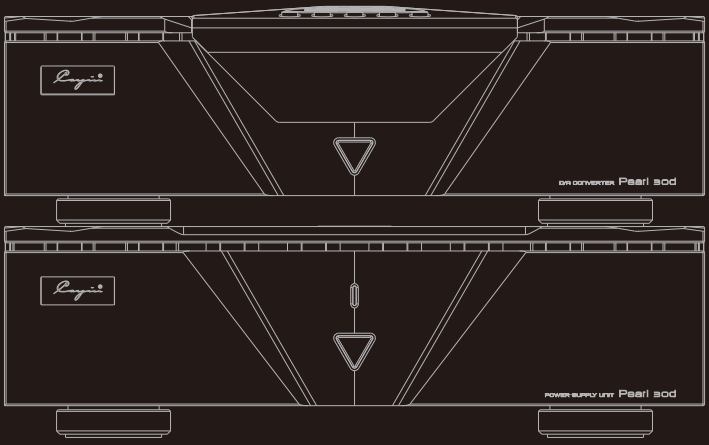
Cayin®

Pearl 30d HiFi Audio D/A Converter



User manual

We would like to express our sincere gratitude to you for selecting the Cayin Pearl 30d hi-fidelity D/A Converter. To assist you in comprehending its features, as well as becoming acquainted with its operation, we have prepared this manual. We highly recommend that all customers thoroughly review this manual before commencing usage of the device.

Catalogue

● OPENING THE PACKAGE----------

Please inspect the product package before opening it to ensure it is free from impact damage, breakage, or moisture, and ensure that the packaging box is placed with the arrow pointing upwards. Upon opening the packaging box, the packing list is as follows:

1. D30th Hi-Fidelity D/A Converter * 1 unit
2. SP-13R Remote Control (with two AAA 1.5V batteries included) * 1 Piece
3. Replacement Fuse *2 units
4. Power Cord * 1 piece
5. Aviation plug power cable *1 Piece
6. User Manual *1 copy
7. USB Cable *1 piece

Suggestion

If maintenance services are required, please complete the warranty card and submit it to the authorized dealer within two weeks or mail it back to our sales department. We will provide you with comprehensive and attentive after-sales service. It is recommended to save the packaging and packing materials for future shipment use.

Note: Before plugging in the AC power cord, be sure to double check that the voltage indicated on the rear panel of the machine matches the voltage of your AC power source. Using an AC power source beyond the permitted voltage range may cause damage to the equipment.

● FEATURES----------

1. Built-in two sets of DAC architecture, providing three decoding modes: auto, classic and modern, for different tonal experience.
   - ♦ CLASSIC: Adopts Philips' last generation of Bitstream DAC chipset (TDA1307+TDA1547x2). Our engineers have optimized the peripheral circuits and power supply circuits to maximize the performance of the chip, so as to achieve a unique analog listening experience.
   - ♦ MODERN mode (MODERN): adopts eight ES9039PRO flagship DAC chips, all work in MONO parallel current output state.
   - ♦ AUTO: In AUTO mode, the system detects the format of the input signal and automatically adapts the decoding chipset to achieve full-format decoding, supporting up to 768kHz PCM and DSD512.
2. Incorporates an ultra-low phase noise clock system, featuring an OCXO temperature-compensated crystal oscillator as the reference clock. It also supports external connection to higher performance reference clock sources, as well as output as a reference clock for use with other devices.
3. Equipped with high-capacity linear power supply unit which is separated from the D/A converter.
   - ♦ The power supply unit and the D/A converter were separated into two chassis, in order to reduce crosstalk and interference.
   - ♦ Adopts two dual C-type linear power transformers with high power margins.

♦ Ultra-large scale power supply filtering system: The main board of the power supply unit adopts ten 15000UF high ripple current filtering capacitors and ten 10000uF audio filtering capacitors, and the filtering is further enhanced by the use of double C-type choke coils.

4. Adopts reinforced aluminum alloy shell and steel plate base to isolate electromagnetic interference and reduce mechanical vibration.
5. Equipped with multiple digital audio inputs, supporting TOSLINK, optical fiber, ST wide-band optical fiber, RCA coaxial, BNC coaxial, AES/EBU (XLR3), I^2S (HDMI-A) and USB Audio inputs.
6. Supports RCA single-ended and XLR3 balanced analog line outputs with selectable output levels between standard and high.

● SPECIFICATIONS----------

SPECIFICATIONS		Modern	Classic
output level	Single-ended	2.3Vrms(standard level), 4.6Vrms(high level)	
	balanced	4.6Vrms(standard level), 9.2Vrms(high level)	
Frequency response	Single-ended	20~20kHz(±0.1dB,Fs=192Hz)	20~20kHz
	balanced	20~50kHz(±0.2dB,Fs=192Hz)	(±0.2dB,Fs=44.1Hz)
(THD(A-weighted)	Single-ended	0.0007%	0.001%
	balanced	0.0005%	0.0007%
SNR(A-weighted)	Single-ended	126dB	110dB
	balanced	127dB	110dB
Dynamic Range(A-weighted)	Single-ended	125dB	107dB
	balanced	126dB	107dB
ACR(A-weighted)	Single-ended	-116dB	-105dB
	balanced	-117dB	-106dB
USB Input	USB-B port	PCM 16-32Bit,44.1k-768kHz DSD64-DSD512 (Native), DSD64-DSD256 (DoP)	
I^2S Input	HDMI-A	PCM 16-32Bit,44.1k-768kHz DSD64-DSD512	
SPDIF Input	Coaxial/Optical	PCM 16-24Bit,44.1k-192kHz	
Clock input	Terminal	BNC	
	impedance	50Ω	
	Frequency	10MHz	
	Note	This device has utilized an ultra-low phase noise reference clock, it can work independently without relying on an external clock, however, if you prefer to use a reference clock with higher performance, it can be input from this terminal. It is recommended to use the same reference clock for the entire digital audio system for optimal performance.	
Clock Output	Terminal	BNC	
	impedance	50Ω	
	Frequency	10MHz or other frequencies) (selectable on remote controller)	
	Note	Through the CLOCK key of the remote controller, you can select between the external input clock (10MHz), the thermostatic crystal clock (10MHz) or other frequency clocks to be output to other equipment. It is recommended to use the same reference clock for the entire digital audio system for optimal performance.	

Dimensions	D/A converter	430×350×135mm
	Power supply unit	430×350×130mm
Weight	D/A converter	Approximately 16 kg
	Power supply unit	Approximately 23 kg
Maximum power consumption	130W	

● Safety Precautions----------

1.Before use, please verify that the local power supply voltage matches the voltage indicated on the rear panel of the machine.

2.When the machine is not in use for an extended period, unplug the AC power plug and store the machine properly.

3.Place the machine in a well-ventilated area, avoid covering it with any objects during operation to ensure proper heat dissipation.

4.Handle the machine with care during transportation to avoid damaging it.

5. Moisture (condensation) may condense in the following cases: when the heater is just turned on /in a room with high temperature or steam; when the unit is taken from a cold environment to a warm room; when the unit is taken from a cool environment, such as an air-conditioned room or a car, to a hot and humid place.

If moisture builds up inside the unit, it may not work properly, therefore, please make sure that the moisture is removed before using the unit.

6.To avoid electric shock, do not open the chassis without professional guidance, as there is no user-adjustable component inside the machine.

7.Keep the machine away from water droplets or splashes. Do not place liquid-containing items such as vases on or around the machine to prevent electric shock or damage.

8. Repairs should only be performed by qualified technicians. Do not disassemble the machine on your own, as improper handling may cause damage to the machine.

9.Unplug the AC power cord before cleaning the product. Use a soft, clean cloth to wipe the machine's casing. Do not use volatile solvents or other corrosive cleaning solutions.

10. Place the machine on a stable and flat surface, ensuring that there is even pressure on all four feet.

11.Maintain a distance of at least 10 centimeters between the machine and walls or cabinet sides.

12.Do not place any flammable materials on or around the machine.

13. Direct sunlight or high temperature will accelerate the aging of components or even cause damage, please avoid direct sunlight or high temperature environment to use the product.

14.Use the original power cord for the machine and ensure that the protective earth of the AC power socket is securely grounded. Using AC power sockets with poor protective earth may result in abnormal machine operation or electric shock hazards.

15.If the machine malfunctions, please contact the authorized dealer where you bought the product or the after-sales service department of our company.

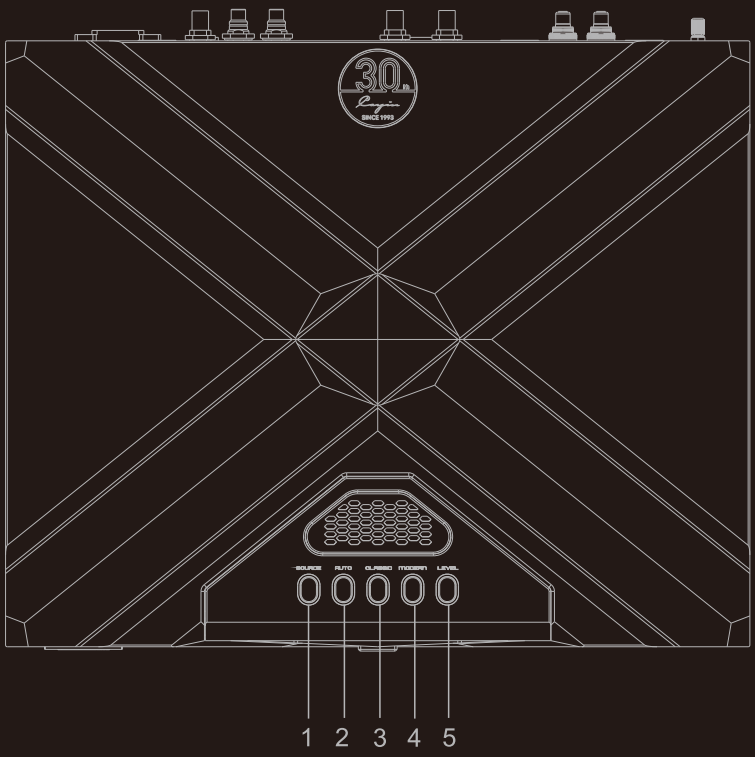
This product is designed to work at altitude of 2000m or below and in non-tropical climate.

- To reduce the risk of electric shock, do not dismantle the top cover (or rear cover).
- If maintenance is required, please request for support from qualified personnel.
- To prevent fire and electric shock hazards, do not expose this device to moisture or dampness.

ϟ The thunder arrow is used to alert the user to dangerous uninsulated components that carry high voltages inside the product. These voltages are extremely high and can cause electric shock.

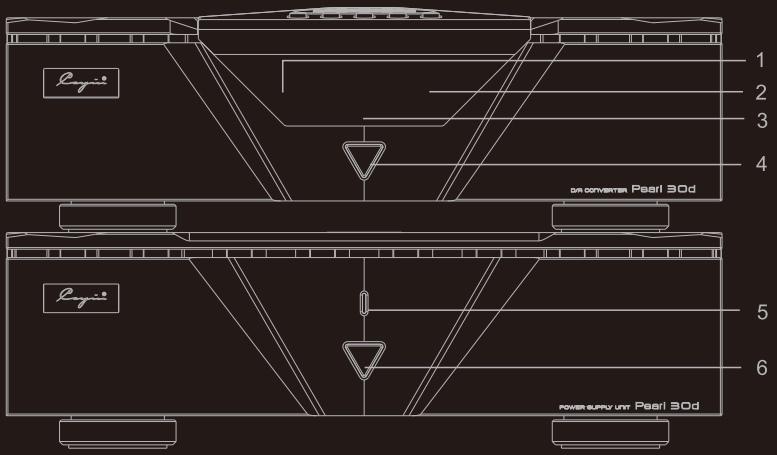
! The warning symbols are used to draw the user's attention to the important operating instructions and maintenance instructions mentioned in the user manual

Upper Panel Functional Description----------



1. Source Selection
   input source, click the SOURCE button on the Front Panel or Remote controller repeatedly to cycle through the following options: USB AUDIO, I2S/DSD, AES/EUB, COAXIAL BNC, COAXIAL RCA, and OPTICAL.
2. AUTO button
   Press to select the Automatic DAC mode, the system detects the format of the input signal and automatically adapts the decoding chipset, the display screen will indicate the current DAC mode
3. Classic button
   Press to select the Classic DAC mode.
4. Modern button
   Press to select the Modern DAC mode.
5. LEVEL button
   Press to select the analog output level. The display screen will show the corresponding output level.

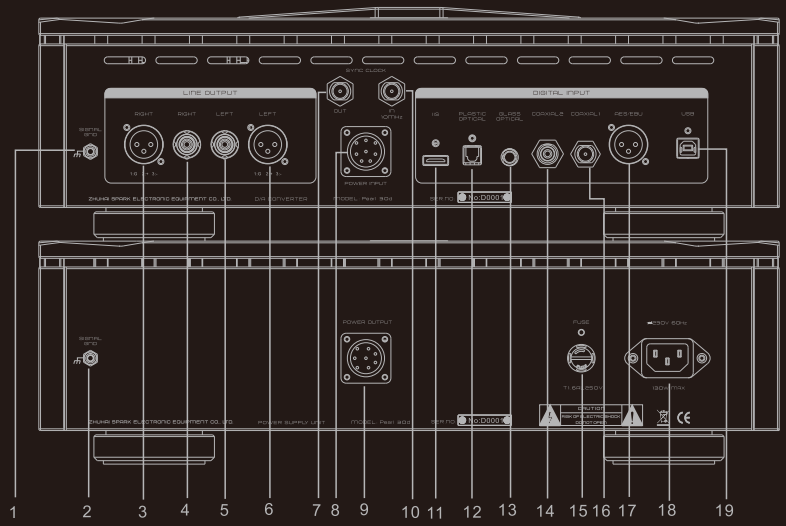
• Front Panel Functional Description



1. Remote sensor window
   Used to receive commands from the infrared remote controller.
2. OCXO working indicator
   When the light is on, it indicates that the crystal oscillator is in the heating state. When the light is off, it indicates that the crystal oscillator has reached its optimal operating temperature and is in a constant temperature state.
3. AMOLED Display
   Display various working status of the machine.
4. Power switch of the D/A converter
   D/A converter, but the power supply of constant temperature crystal oven is not controlled by this switch. The thermostatic crystal oven will remain powered as long as the power supply unit is on.

5. Power Indicator
   It is used to indicate the power status of the power supply unit and D/A converter. If you turn on the power switch of the power supply unit, the power indicator will light up red, red light indicates that the power supply unit has been turned on but the D/A converter power is off, bright white light indicates that both devices are powered on; light off indicate that the entire system is powered off.
6. Power switch of the Power supply unit
   Used to switch on or off the power supply unit.

● Rear Panel Functional Description----------



1. Ground terminal of the D/A converter chassis
   If necessary, the D/A converter can be connected to other ground systems.
2. Ground terminal of the power supply unit chassis
   If necessary, the power supply unit can be connected to other ground systems
3. XLR Terminal for Line Out (Right)
   If the amplifier features XLR balanced line inputs, you can connect the XLR output terminals of this unit to the XLR input terminals of the amplifier using XLR cables.
   Note: Please make sure that the left and right channels are connected correctly.
4. RCA Single-ended Terminal for Line Out (Right)
   If the amplifier features RCA single-ended line inputs, you can connect the RCA output terminals of this unit to the RCA input terminals of the amplifier using RCA cables.
   Note: Please make sure that the left and right channels are connected correctly.
5. RCA Single-ended Terminal for Line Out (Left)
   If the amplifier features RCA single-ended line inputs, you can connect the RCA output terminals of this

unit to the RCA input terminals of the amplifier using RCA cables.
Note: Please make sure that the left and right channels are connected correctly.

6. XLR Terminal for Line Out (Left)
If the amplifier features XLR balanced line inputs, you can connect the XLR output terminals of this unit to the XLR input terminals of the amplifier using XLR cables.
Note: Please make sure that the left and right channels are connected correctly.

7. Reference Clock Output Terminal (50Ω impedance)
The reference clock signal of 10MHz or other frequency can be output from this terminal for other devices. You can select different clock sources for output by pressing the CLOCK button on the remote controller.

8. DC power input socket of the D/A converter
The DC power supply of the D/A converter is input through this socket, please use the dedicated connection cable provided in the package to connect the power supply unit to the D/A converter unit.

9. DC power output socket of power supply unit
The DC power required by the D/A converter is obtained from this socket.

10. Reference Clock Input Terminal (50Ω impedance)
This terminal allows the machine to receive 10MHz reference clock signal from other clock sources.
Note: This unit only supports 10MHz clock input.

11. I^2S Digital Signal Input Terminal
The HDMI-A terminal enables the device to receive LVDS differential I^2S or DSD digital signal from external audio sources, i.e., the Cayin Pearl 30c.

12. TOSLINK Optic input terminal
TOSLINK optical fiber terminal can be used to receive the TOSLINK digital signal output by external sources, i.e., the Cayin Pearl 30c.

13. ST Optical Input Terminal
ST Optical fiber terminal can be used to receive the Optical digital signal output by external sources, i.e., the Cayin Pearl 30c.

14. COAXIAL RCA
RCA coaxial terminal (75Ω) can be used to receive the digital signal output by external sources, i.e., the Cayin Pearl 30c

15. Fuse Socket
In the case of replacement, please use fuses of the same specifications.

16. COAXIAL BNC
BNC coaxial terminal (75Ω) can be used to receive the digital signal output by external sources, i.e., the Cayin Pearl 30c.

17. AES/EBU
AES/EBU terminal (110Ω) can be used to receive the digital signal output by external sources, i.e., the Cayin Pearl 30c.

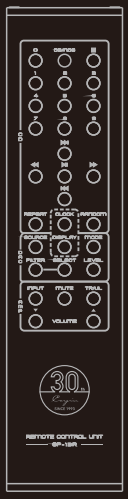
18. Power socket
The AC power supply of the power supply unit is input through this socket

19. USB Audio Input
Through the USB cable included in the packaging, you can connect the Pearl 30d to external sources such as the Cayin DAP17 or computer, allowing it to receive USB digital audio signals.

● Remote Controller Functions and Battery Installation----------

The device comes with a multifunctional remote controller that can simultaneously control the Pearl 30c CD player, Pearl 30d DAC, and Pearl 30i integrated amplifier.

1. CD Zone Buttons: Not applicable for this device
2. “CLOCK”：Clock Source Switching Button
3. “SOURCE”：Source Input Selection button
4. “DISPLAY”：Display brightness adjusting button
5. “MODE”：Cycle through DAC modes
6. “FILTER”：Button to access the digital filter selection interface
7. “SELECT”：Digital filter selection button (to be used with the FILTER button)
8. “LEVEL”：Output level switch button
9. AMP Zone Buttons: Not applicable for this device

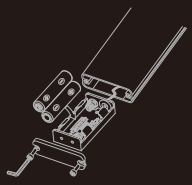


Remote Controller Battery Installation:

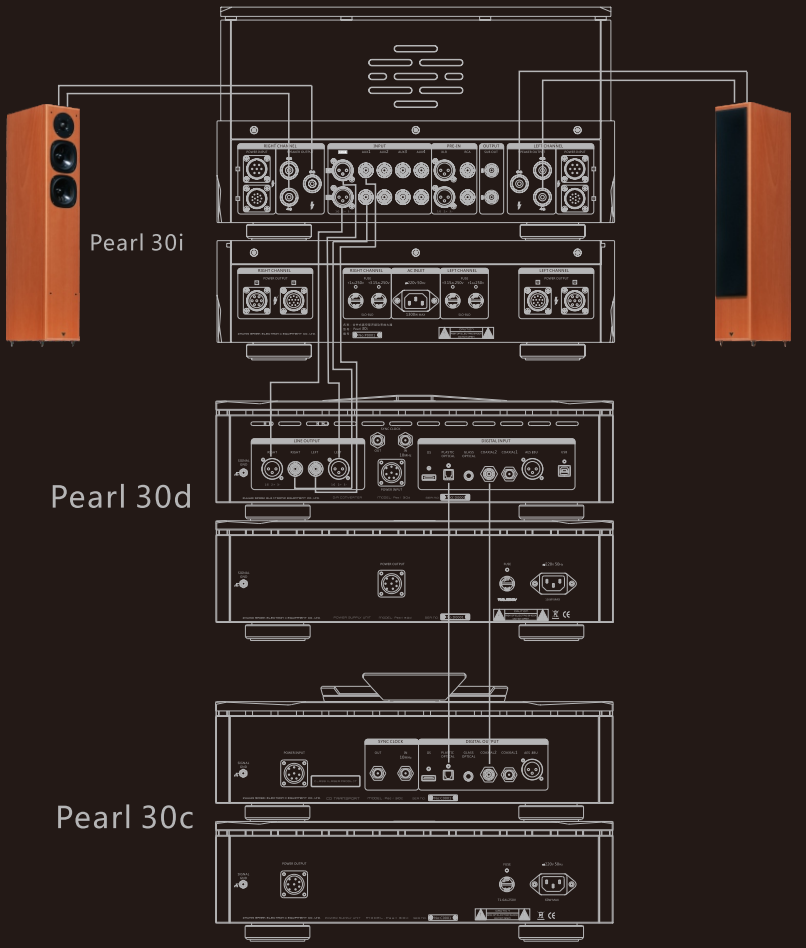
1. Place the remote controller face down on a flat surface and use the provided screwdriver to unscrew the battery tray cover.
2. Gently pull out the batteries from the tray and place it on the flat surface (avoid applying too much force to prevent damage to the circuit board).
3. Following the guidance of the polarity markings (+)(-) inside the battery tray, insert two AAA 1.5V batteries.
4. Place the battery tray cover back into position and securely screw on the back cover.

Precautions for Remote Controller Use

- The remote control has an effective transmission range of 8 meters within an angle range of ±30 degrees.
- Avoid rough handling or exposing the remote control to moisture.
- Promptly replace the batteries when low battery power is indicated.
- Do not mix old and new batteries or use different types of batteries together.
- If the remote control will not be used for an extended period, remove the batteries to prevent leakage.
  It is recommended to use batteries that meet the standards.



CONNECTION DIAGRAM----------



The diagram demonstrates the basic connection method between this device and the Cayin Pearl 30c CD player as well as the Pearl 30i integrated amplifier.

1.Connect to Audio Source (Digital Audio Player)

Utilize any of the various input terminals described in the previous section "Rear Panel Functional Description" to connect this device to the corresponding digital audio output terminals of the DAP.

Suggestion:

If used with the Cayin Pearl 30c CD player, it is recommended to transmit the 10MHz clock signal from the internal OCXO temperature-compensated crystal oscillator of this device to the CD player as a reference clock via a 50Ω BNC coaxial clock cable. This will synchronize the clocks of all devices in the system, resulting in improved audio performance.

2. Connect to computer

Use the USB cable provided in the package to connect the USB-B port of this device to the USB-A port of your computer. If using a desktop computer, prioritize using the USB ports on the back (motherboard) of the computer

Install Driver

If you plan to use D30TH with a windows based computer, you need to install a USB Audio Driver in your computer before you can use the DAC as an outboard USB sound card for your system. You can install the driver from the following url: http://en.cayin.cn

The steps to install the drivers are as follows:

(1)Double click the "

"icon to activate the driver installation process, select the corresponding option according to the pop-up window until the installation process is completed.

(2)If the driver has installed successfully, you should be able to see the name "Cayin CS-100DAC at the Device Manager interface of your computer.

(3)Select "Cayin D30TH/Pearl 30d" as audio output device in your computer playback software

(4)Only Windows 7/8/8.8/10 are required to install the driver. Mac OS X 10.6.3 do not need to install the driver.

3.Connection to the integrated Amplifier:

Connect the analog output terminals of this device to the analog input terminals of the integrated amplifier.

Attention

1.Please make sure that the AC voltage of the device matches with your local power supply voltage.

2.To avoid damage to your amplifier and speakers due to high volume of noise during connection, please turn off the power of each unit before connecting.

● Operation and Function Instructions----------

Before turning on the unit, ensure that all connections are correct and secure.

1. Power On/Off:

Press the power switch on the power supply unit, then press the power button on the D/A converter to turn on the unit. To turn off the unit, press the power button on the D/A converter first and then the power switch over the power supply unit.

Note: If you are briefly pausing listening, you can simply turn off the power of the D/A converter, while the power supply unit remains on. In this case, the next time you turn on the power of the D/A converter, it can quickly enter the optimal state. However, if the device is to be unused for an extended period, it is recommended to turn off the power of the entire unit.

2. Source Selection

Press the "SOURCE" button on the top panel or the "SOURCE" button on the remote controller to cycle through the audio input sources. Depending on your needs, you can select the "USBAUDIO", "I2S/DSD", "AES/EBU", "COAXIAL BNC", "COAXIAL RCA", "PLASTIC OPT", or "GLASS OPT" input interface.

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again.

2.1.Using the USB Audio input:

If connecting this device's USB interface to a Windows based computer, it is necessary to install the USB driver.

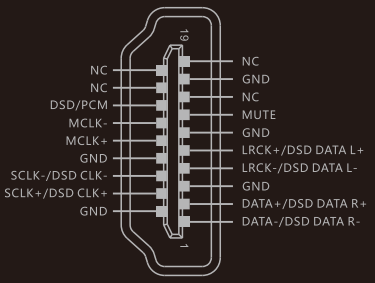
Connect the USB terminal (Type B) to the computer's USB port (Type A) using a USB cable, then press the "SOURCE" button on the top panel or the "SOURCE" button on the remote controller to select the "USB AUDIO" interface.

The display screen of this device can show real-time information about the format and sampling rate of the tracks.

2.2. Using the I2S/DSD input

The I2S interface of this device utilizes a 19-pin HDMI-A terminal, with pin functions customized by our company. While it is compatible with other products from our company, it may not be compatible with HDMI I²S interfaces from other brands.

Type-A



Press the "SOURCE" button on the top panel or the "SOURCE" button on the remote controller to switch to the "TS/DSD" interface.

After selecting this function, the display screen will show real-time audio format and sampling rate information of the song.

2.3.Using the AES/EBU input

Connect the device with AES/EBU cable.

Press the "SOURCE" button on the top panel or the "SOURCE" button on the remote controller to switch to the "AES/EBU" Input.

After selecting this function, the display screen will show real-time sampling rate information of the track.

2.4. Using the BNC coaxial input

Connect the device with BNC coaxial cable.

Press the "SOURCE" button on the top panel or the "SOURCE" button on the remote controller to switch to the " COAXIAL BNC " Input.

After selecting this function, the display screen will show real-time sampling rate information of the track.

2.5. Using the RCA coaxial input

Connect the device with RCA coaxial cable.

Press the "SOURCE" button on the top panel or the "SOURCE" button on the remote controller to switch to the " COAXIAL RCA " Input.

After selecting this function, the display screen will show real-time sampling rate information of the track.

2.6. Using the Plastic Optical input

Connect the device with plastic optical cable.

Press the "SOURCE" button on the top panel or the "SOURCE" button on the remote controller to switch to the " PLASTIC OPT " Input.

After selecting this function, the display screen will show real-time sampling rate information of the track.

2.7. Using the Glass Optical input

Connect the device with glass optical cable.

Press the "SOURCE" button on the top panel or the "SOURCE" button on the remote controller to switch to the " GLASS OPT " Input.

After selecting this function, the display screen will show real-time sampling rate information of the track.

3. DAC Mode Selection

3.1. Selecting Classic DAC Mode

Press the "CLASSIC" button on the top panel, or press the "MODE" button on the remote controller. The display screen will show the "CLASSIC" icon.

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again

3.2. Selecting Modern DAC Mode

Press the "Modern" button on the top panel, or press the "MODE" button on the remote controller. The display screen will show the "Modern" icon.

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again

3.3. Selecting AUTO DAC Mode

Press the "AUTO" button on the top panel, or press the "MODE" button on the remote controller. The display screen will show the "AUTO" icon.

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again

4. Filter Settings:

Filters include classic DAC filters and modern DAC filters, with modern DAC filters further divided into FIR filters and IIR filters. Therefore, there are three types of filters to choose from.

4.1. Accessing the Filter Settings Interface:

Press the "FILTER" button on the remote controller to access the filter settings interface. First, the FIR filter setting interface of the modern DAC filters will appear, followed by the IIR filter setting interface of the modern DAC filters. Finally, the filter setting interface of the classic DAC will be displayed. You can cycle through these options for selection.

4.2. Setting for Modern DAC FIR Filter:

Once the interface for the FIR filter settings of the modern DAC is accessed, press the "SELECT" button on the remote controller to choose the desired filter.

You can select from the following filters: "Minimum Phase", "Linear Phase Apodizing", "Linear Phase Fast Roll-Off", "Linear Phase Slow Roll-Off", "Minimum Phase Fast Roll-Off", "Minimum Phase Slow Roll-Off", and "Low Dispersion".

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again

4.3. Setting for Modern DAC IIR Filter:

Once the interface for the IIR filter settings of the modern DAC is accessed, press the "SELECT" button on the remote controller to choose the desired filter.

You can select from the following filters: "Bandwidthx8", "Bandwidthx4", "Bandwidth x2* Bandwidth", "Bandwidth/2", "Bandwidth/4", and "Bandwidth /8".

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again

4.4. Filter Settings for Classic DAC:

Once the interface for the filter settings of the classic DAC is accessed, press the "SELECT" button on the remote controller to choose the desired filter.

You can select from the following filters: "3rd Order" and "4th Order".

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again

5. Using External Clock

The system will automatically switch to using the external clock when connect the external 10MHz clock source to the clock input terminal of Pearl 30d, and the display screen will show "CLK IN". At this point, the entire clock system operates based on the external clock. If you wish to use the internal OCXO clock source, simply disconnect the external clock input wire and the Pearl 30d will automatically switch back to the internal clock, upon doing so, the display screen will no longer show "CLK IN".

6. Clock Output

Press the "CLOCK" button on the controller to select the clock output source between: the clock generator, the OCXO clock, and the external clock source. When selecting the clock generated by the clock generator as the clock output, the display screen will show "CLK OUT GEN 10M".

When selecting the OCXO clock as the clock output, the display screen will show "CLK OUT OCXO 10M".

When selecting the external clock as the clock output, the display screen will show "CLK OUT EXT10M".

If the system utilizes an external clock source, you can only select either the clock generated by the clock generator or the external clock as the clock output.

When you choose the external clock as the clock output and power off the system, in such situation, if you unplug the external clock source, the Pearl 30d will automatically select the internal OCXO as the clock output the next time you power it on.

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again

7. Selecting Output Level:

Press the "LEVEL" button on the top panel or the "LEVEL" button on the remote control to choose between standard level output or high level output.

The display screen will show "" icon.

The DAC will remember the previous setting when powered off and will resume to the previously selected source upon powering up again

8. Brightness Adjustment

You can adjust the display screen brightness by pressing the "DISPLAY" button on the remote controller.

Each time you press the "DISPLAY" button on the remote controller, the display brightness will cycle through "Bright", "Brighter", and "Dim" settings.

● Trouble Shooting----------

To ensure optimal performance of the machine, it is essential to adhere to proper maintenance procedures and operate it correctly. Incorrect operation may lead to abnormal functioning of the machine. Should any issues arise with the unit, please perform the following checks. It is possible that the problem may originate from other equipment; therefore, please also inspect the other devices and relevant connections. If the problem persists, kindly reach out to your nearest authorized dealer or Cayin's marketing department for further inspection and assistance.

Problem		Cause	Remedy
No sound after power on	Standby Indicator is OFF	Power is not connected.	Make sure power cable is properly connected to a power outlet and there is proper power supply from the outlet.
		The fuse is blown	Replace the fuse with the same specification as the original one
	Standby Indicator is ON	DAC is in Standby Mode.	Press Standby button on the remote or the front panel to wake up the DAC
No display after pressing Standby		Internal Problem.	Please contact your local authorized dealer.
The display screen is functioning normally but there is no sound.		No Signal Input	Please make sure you select the correct source input and the source works normally.
		Wrong Audio cable Connection	Please make sure all cables are connected correctly
Cannot decode when using Coaxial input		Coaxial cable connection problem	Please check the coaxial cable and reconnect
		No coaxial Signal input.	Please check the coaxial output of the source.
Cannot decode when using AES/EBU input.		Digital cable connection problem	Please check the AES/EBU Digital cable and reconnect.
		No Signal input	Please check the AES/EBU Digital output of the source.
Cannot decode when using Optical input		Optical cable connection problem	Please check the optical cable and re-connect
		No optical Signal input	Please check the optical output of the source
Computer cannot recognize the device		USB Cable does not meet the standard	Replace a proper USB 2.0 cable.
		USB driver has not been installed correctly.	Install the USD Driver.
		USB driver error	Restart the computer.
Abnormal Audio output when USB Audio is used.		Computer is busy	Optimize computer background usage during audio playback
		Computer hardware does not meet the audio playback requirements (This issue typically arises when playing high bitrate files, such as DSD512.)	Upgrade the computer hardware if possible
		USB Interface Problem	Please try another USB port.