DA70

MUSIC ON , ZIIZOO ON



MUSIC ON, ZIIZOO ON.

All you need to do is
listen to the pure sound.

Thank you for choosing ZIIZOO

DA70 Digital Audio Decoder & Amplifier All-in-One Machine

ZIIZOO | Contents

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Product Usage Precautions

- To prevent the risk of fire, electric shock, or product damage, do not expose this device to rain, moisture, dripping, or splashing. Do not place water-filled objects, such as vases, on top of the device.
- To ensure proper ventilation, do not install this device in a bookcase, built-in cabinet, or other enclosed spaces. Ensure that curtains or any other objects do not block the ventilation holes to avoid the risk of electric shock or fire caused by overheating.
- Do not place open flame sources, such as lighted candles, on the device.
- Do not open the chassis to avoid electric shock. The casing should only be opened by qualified professional technicians.

Placement	Please place the player on a flat surface, away from direct sunlight, and avoid high temperatures, high humidity, and frequent vibrations. Otherwise, it may damage the chassis and other internal components, thereby shortening the lifespan of the device. To prevent distortion and abnormal acoustic effects, do not place heavy objects on the device. When positioning the device, maintain a distance of at least 15 cm from the wall.
Power Supply	Do not use excessive voltage, as this may overload the device and cause a fire. Connect the AC power cord correctly and ensure it is not damaged. Do not pull, bend, or place heavy objects on the power cord. Do not overload wall outlets. Be extremely careful when using extension cords or power strips, as they can cause electric shocks or fire hazards. Do not trap the AC power cord between the player and walls or bookshelves. To prevent damage caused by lightning, unplug the power cord from the outlet when the device is not in use for an extended period. Please use the dedicated power adapter supplied with this device correctly. Do not use adapters that exceed the rated voltage of the device.
Moisture Proofing	When using this device, avoid damp environments such as humid basements. Moisture condensation can damage the internal components.

Service

Do not attempt to repair this device by yourself. Unauthorized repair, disassembly, or reassembly by non-professionals may lead to electric shock or product damage. If any of the following conditions or other unlisted malfunctions occur, please unplug the power cord and contact your local dealer or service center. (National Service Hotline: 0755-83014160)

A. Abnormal sound or picture

B. Damaged power cord or plug

C. Liquid spilled or foreign objects entered into the device

D. The device has been exposed to rain or water

E. The device has dropped from a height or has been damaged by other causes

F. The device exhibits abnormal operations, which usually indicates that repair is required

When replacement parts are required, ensure that the service technician uses parts specified by the manufacturer or parts with identical characteristics to the original components. Unauthorized substitutions may result in fire, electric shock, or other hazards. Upon completion of any service or repair, request the technician to perform safety checks to ensure the device is in proper operating condition.

About This Manual

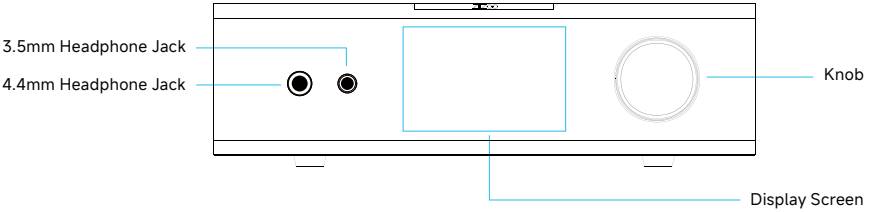
- Read this instruction manual carefully, keep it in a safe place for future reference, and operate the device in accordance with the provided instructions.
- The UI screenshots or illustrations used in this manual may differ from the actual graphics shown on the device screen. This may be caused by differences in software versions.

01 Product Overview

Interface Description

- DA70 is equipped with a rich set of audio input/output interfaces and data transmission ports. Please refer to the contents of this manual.

Front

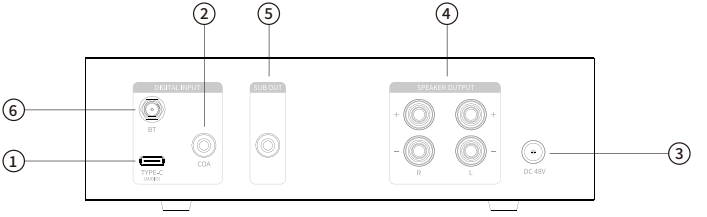


Knob Functions

- Long press the knob to Power ON/OFF the device.
- Short press the knob to enter the device Settings Mode (For details, see P08: Settings).
- Rotate the knob to enter Volume Adjustment Mode (For details, see P08: Volume Adjustment).



Rear Panel



① **USB-C Audio Input Port**
Connects to mobile phones, computers, etc.
Maximum support up to DSD512, PCM 768kHz 32-bit.

② **COA Coaxial Input Interface**
Supports up to PCM 192kHz 24-bit audio.

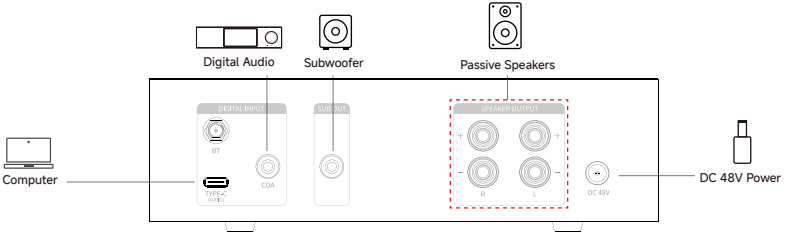
③ **DC IN**
Connects to the 48V DC power cord.

④ **SPEAKER Amplifier Output**
Connects to passive speakers.

⑤ **SUB Subwoofer Output**
Connects to a powered subwoofer.

⑥ **Bluetooth Antenna Interface**
Screw on the provided
Bluetooth antenna accessory.

Rear Panel Wiring Diagram



Note:

*Please ensure the device is powered off before connecting other devices.

*The diagram shows examples of some compatible devices; more devices can actually be connected.

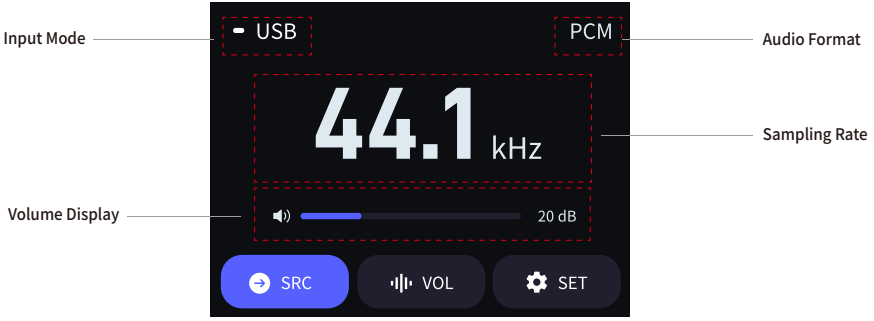
规格参数

Product Name	Digital Audio Decoder & Amplifier All-in-One Machine
Model	DA70
Color	Gunmetal Gray
Chassis Material	Aviation-grade all-aluminum body, Apple-style sandblasting process
Display Screen	Screen Process: TFT LCD full-color display; Screen Size: 2.4 inches; Resolution: 240*320P; Display Mode: Landscape mode
UI Language	Chinese and English
Audio DAC	ES9039Q2M*2
Audio Processor	XMOS XU316 3rd Gen 16-Core
Op-Amp Chip	NJM5532*3+OPA1612*2
Headphone Amp Chip	TPA6120*2
Power Amp Chip	TPA3255*1
Bluetooth	QCC3084 Version: 5.4
Power Supply	External high-end power adapter, completely eliminating internal power ripple interference
USB Interface	USB-C: Supports audio transmission
Playback Display	Sampling rate and bitrate display
System Settings	Audio output settings, About
Bluetooth Audio Input	Supports LE Audio, LDAC (up to 96kHz), aptX, aptX HD, aptX Adaptive, AAC (up to 48kHz), SBC (up to 48kHz) codecs, etc.
Coaxial Audio Input	Supports up to Stereo PCM 192kHz 24-bit
USB-C Audio Input	System Compatibility: Windows 7-11, MAC, Android, iOS, HarmonyOS.Supports DSD512 Native, PCM 768kHz 32-bit
SUB Audio Output	10Hz - 100Hz low-pass bass output
Headphone Impedance	16-300Ω Single-ended / 16-600Ω Balanced
3.5mm Output Audio Characteristics	Output Level: 3.5Vrms (BW: 20Hz-20kHz) Max Undistorted Power: 765mW@16Ω / 40mW@300Ω Total Harmonic Distortion (THD+N): 0.0005%@1kHz (-100dB@1kHz) Noise Floor: <3uVrms Signal-to-Noise Ratio (SNR): 120dB@1kHz Frequency Response: 20Hz-20kHz (±0.06dB) Crosstalk: -108dB Dynamic Range (DNR): 120dB@1kHz

4.4mm Output Audio Characteristics	Output Level: 7Vrms (BW: 20Hz-20kHz) Max Undistorted Power: 1000mW@16Ω / 82mW@600Ω Total Harmonic Distortion (THD+N): 0.0005%@1kHz (-100dB@1kHz) Noise Floor: <3uVrms Signal-to-Noise Ratio (SNR): 126dB@1kHz Frequency Response: 20Hz-20kHz (±0.07dB) Crosstalk: -110dB Dynamic Range (DNR): 126dB@1kHz
Amplifier Output	Output Power: Rated 120W*2 @ 4Ω; 100W*2 @ 8Ω; Distortion: THD+N < 0.005% (1kHz, BW: 20Hz-20kHz, 1W) Signal-to-Noise Ratio (SNR): 106dB; Speaker Impedance Supported: 2-8Ω; Frequency Response: 20Hz-20kHz (±0.1dB)
Control Method	Knob Control
Power Input	DC48V-5A 240W
Rated Power	Not more than 300W
Dimensions	196*160*55MM

02 Basic Functions

Main Interface Overview



The interface layout features defined zones, displaying four core sets of information clearly: Input Mode, Audio Format, Sampling Rate, and Volume. Users can instantly check the current audio status upon booting up without digging through menus. Key parameters like sampling rate and format are clear at a glance, significantly increasing operational efficiency for audiophiles.

Input Mode: Displays the current audio input source (e.g., USB, Bluetooth, or Coaxial).

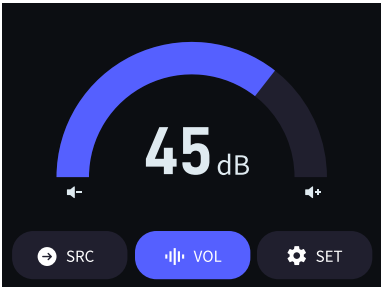
Audio Format: Displays the encoding format of the current audio track (e.g., PCM, DSD, etc.).

Sampling Rate: Displays the sampling rate of the current audio signal (in kHz), indicating the audio resolution accuracy.

Volume Display: Visually demonstrates the current output volume via a progress bar combined with a numeric value (in dB).

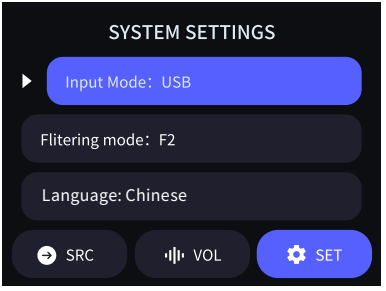
Volume Adjustment

Rotate the volume knob on the right side of the DA70 body to enter volume adjustment mode. The screen will display the current volume value and progress bar. Rotate clockwise to increase the volume, and counter-clockwise to decrease it. Once adjusted, release the knob and the device will automatically return to the main interface after 2 seconds.



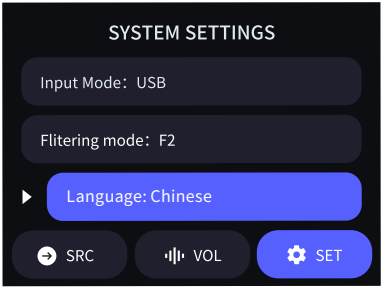
Settings

From the main interface, short press the volume knob on the right side of the body to enter the settings menu. After entering the menu, if no further action is performed, release the knob and the device will automatically return to the main interface after 2 seconds.



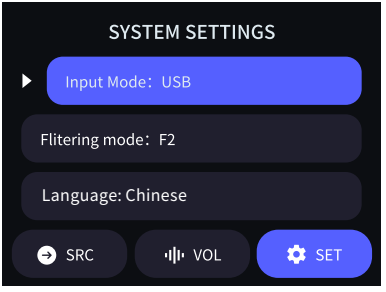
Language Settings

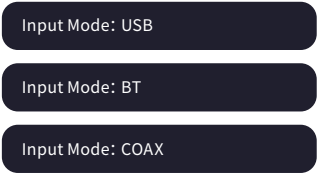
After entering the settings menu, rotate the knob to select the function item you wish to adjust. When the "Language" option is highlighted, short press the knob to directly switch the current system language.



Input Mode

After entering the settings menu, rotate the knob to select the function item you wish to adjust. When the "Input Mode" option is highlighted, short press the knob to enter the input source selection interface. This device offers three input modes: USB Input, Bluetooth Input, and Coaxial Input. Rotate the knob to highlight your desired mode, and short press to confirm the setting.





1.Bluetooth Input Mode

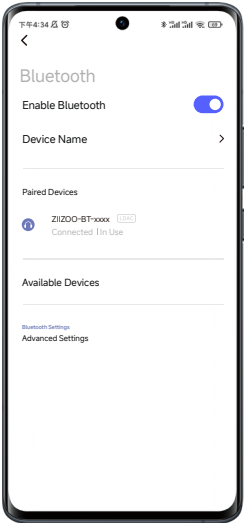
Operating Steps:

1.In the machine's settings interface, navigate to the input mode, and short press the knob to select "Input Mode: BT".

2.urn on Bluetooth on your phone, scan for devices, find "ZIIZOO-BT-xxxx,"and pair/connect.

3.For certain mobile phones, if there is no audio during music playback, you may need to adjust the sound output settings inside the music playback software.





Note:

*The illustration is an example showing some connected devices; more devices can actually be connected.

*Ensure the rear Bluetooth antenna is screwed tightly and positioned upright. Do not place the device inside a cabinet.

*It is recommended to play locally downloaded songs on your phone. Streaming audio online is susceptible to network fluctuations and often yields lower sound quality.

*Keep the device separated from your Wi-Fi router, or configure your Wi-Fi to the 5GHz band. 2.4GHz Wi-Fi and Bluetooth share similar frequency bands and can easily interfere with each other.

*(Note: Once the phone is successfully connected via Bluetooth and music is playing, the display screen will indicate the actual sampling rate value).

2.Coaxial Input Mode

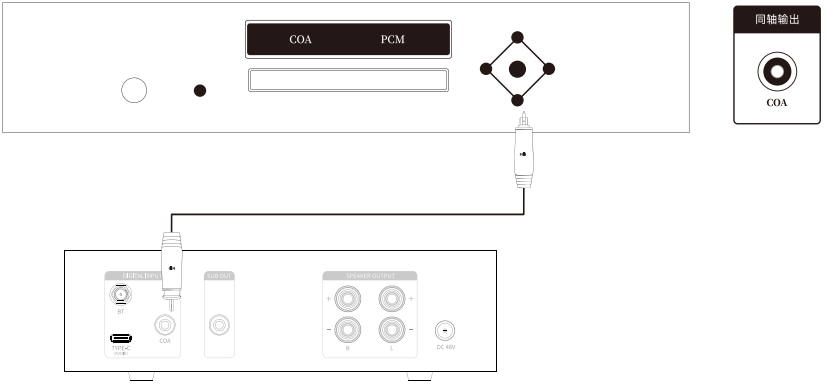
Operating Steps:

1.Cable Connection: Please use a high-quality 75Ω shielded audio coaxial cable with RCA connectors.

2.In the machine's settings interface, navigate to the input mode and short press the knob to select "Input Mode: COAX".

3.The source audio device must have its sound output mode configured to Coaxial / SPDIF output.

4.Select Stereo / PCM as the output format.



Note:

*The illustration shows examples of some connected devices; more devices can actually be connected.

*The cable used must be a digital coaxial cable with a constant impedance of 75 Ohms.

*Select COA for Coaxial input.

*Once the decoder receives a valid audio signal, the display screen will indicate the sampling rate (e.g., 44K).

3.USB Input Mode

When USB input is selected, you can output audio via XLR or RCA. Below are the connection and operational methods:

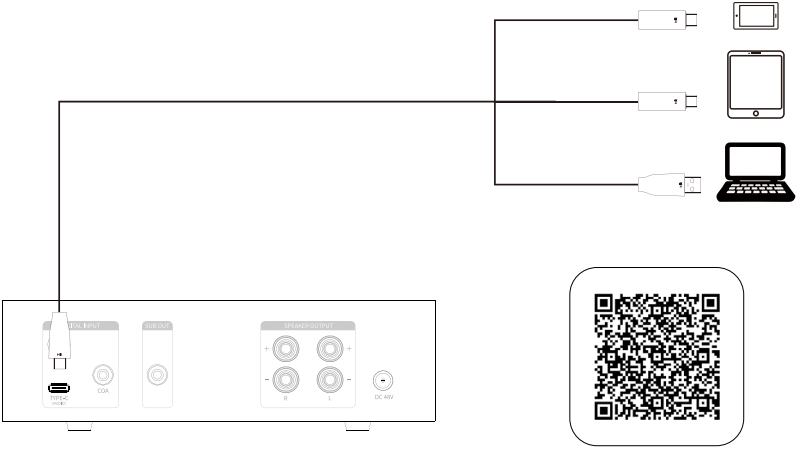
1.(Note: Per the rear panel diagram on Page 7, the port is actually a USB-C input interface. Translating standard instruction text as written): Use a high-quality shielded decoding cable, plug the USB connector into the DA70's USB input interface, and connect the other end (USB-A/C) to a computer, mobile phone, or other source devices.

2.Use a pair of XLR balanced audio cables or high-quality RCA interconnects to connect the Left and Right channels of this unit's output interfaces to the corresponding XLR or RCA input interfaces on your amplifier or powered speakers.

3.In this unit's input/output settings, select USB as the input source and XLR/RCA as the output destination. Set your amplifier's input source to XLR or RCA; no additional configuration is needed for active/powered speakers.

4.For Windows computers, after properly installing the driver and audio player software according to the tutorial, you can play high-resolution audio files up to DSD512 and PCM 768kHz 32-bit.

5.When connected to a mobile phone's Type-C port, the phone can output audio directly to the DA70 for hardware decoding and playback.



Note:

*Windows computers require downloading and installing a dedicated driver (Scan the QR code on the right for video tutorials and driver downloads).

*Mac computers will automatically install the driver. Simply select the USB output device in the system's sound output settings.

*Some Android devices (such as Huawei phones) require configuring the USB output mode to "MIDI" before connecting the cable. If there is no sound, reconnect the cable and turn up the volume.

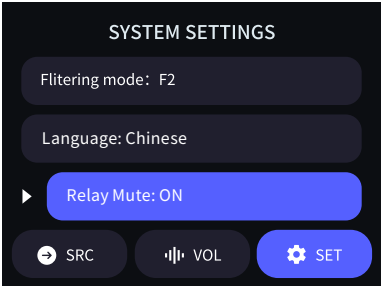
*For models like OPPO/VIVO, you need to go to settings, locate "Additional Settings," and enable the "OTG" switch before making the connection.

*To play DSD audio from a phone, use a compatible app and enable its "USB Exclusive Access" function. (This feature depends entirely on app compatibility; any playback anomalies are unrelated to this device).

* (Note: Windows XP does not support the driver. Please use Windows 7 or higher systems).

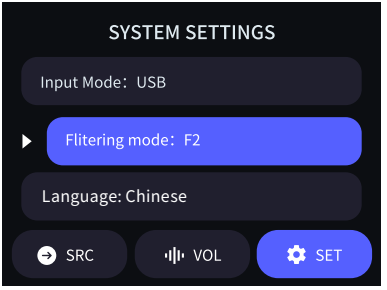
Relay Mute

After entering the settings menu, rotate the knob to select the target function. When the "Filter Mode" option is highlighted, short press the knob. You can adjust the different digital filter characteristics of the DAC based on your personal preference to achieve various sound signatures and meet personalized listening needs.



Filter Modes

After entering the settings menu, rotate the knob to select the target function. When the "Filter Mode" option is highlighted, short press the knob. You can adjust the different digital filter characteristics of the DAC based on your personal preference to achieve various sound signatures and meet personalized listening needs.



F0:	Minimum phase (default)
F1:	Linear phase fast roll-off apodizing
F2:	Linear phase fast roll-off
F3:	Linear phase fast roll-off low ripple
F4:	Linear phase slow roll-off
F5:	Minimum phase fast roll-off
F6:	Minimum phase slow roll-off
F7:	Minimum phase slow roll-off low dispersion

ZiiZOO DA70

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FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any inte rference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

•Increase the separation between the equipment and receiver.

•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

•Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.