

AUDALytic

DR70

R2R Streaming DAC

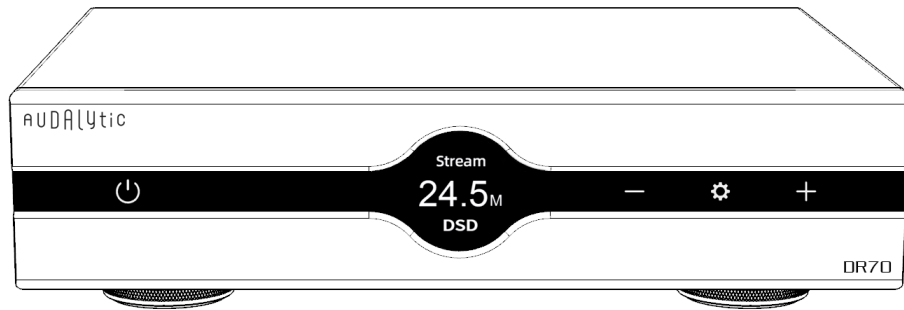
User Manual

V1.0



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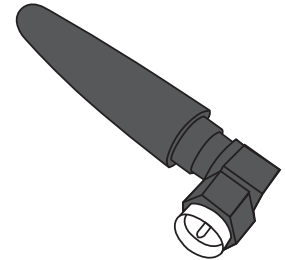
Packaging list



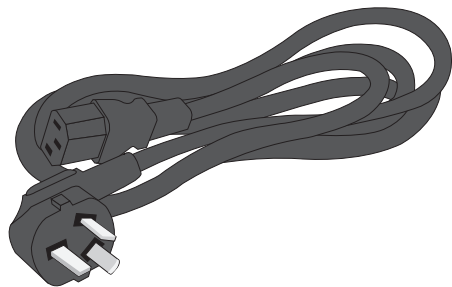
Main Unit



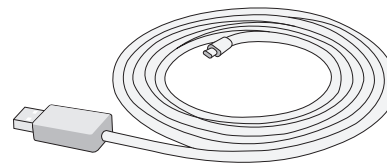
Warranty card



Bluetooth Antenna



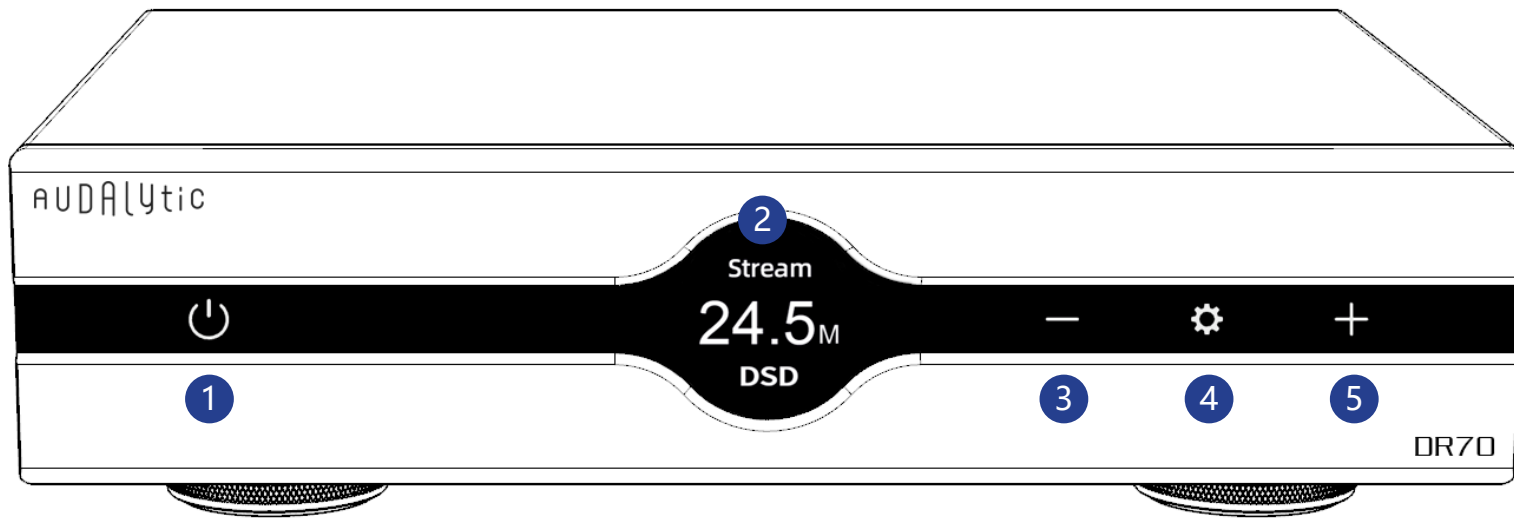
Power cord



Type-C Cable

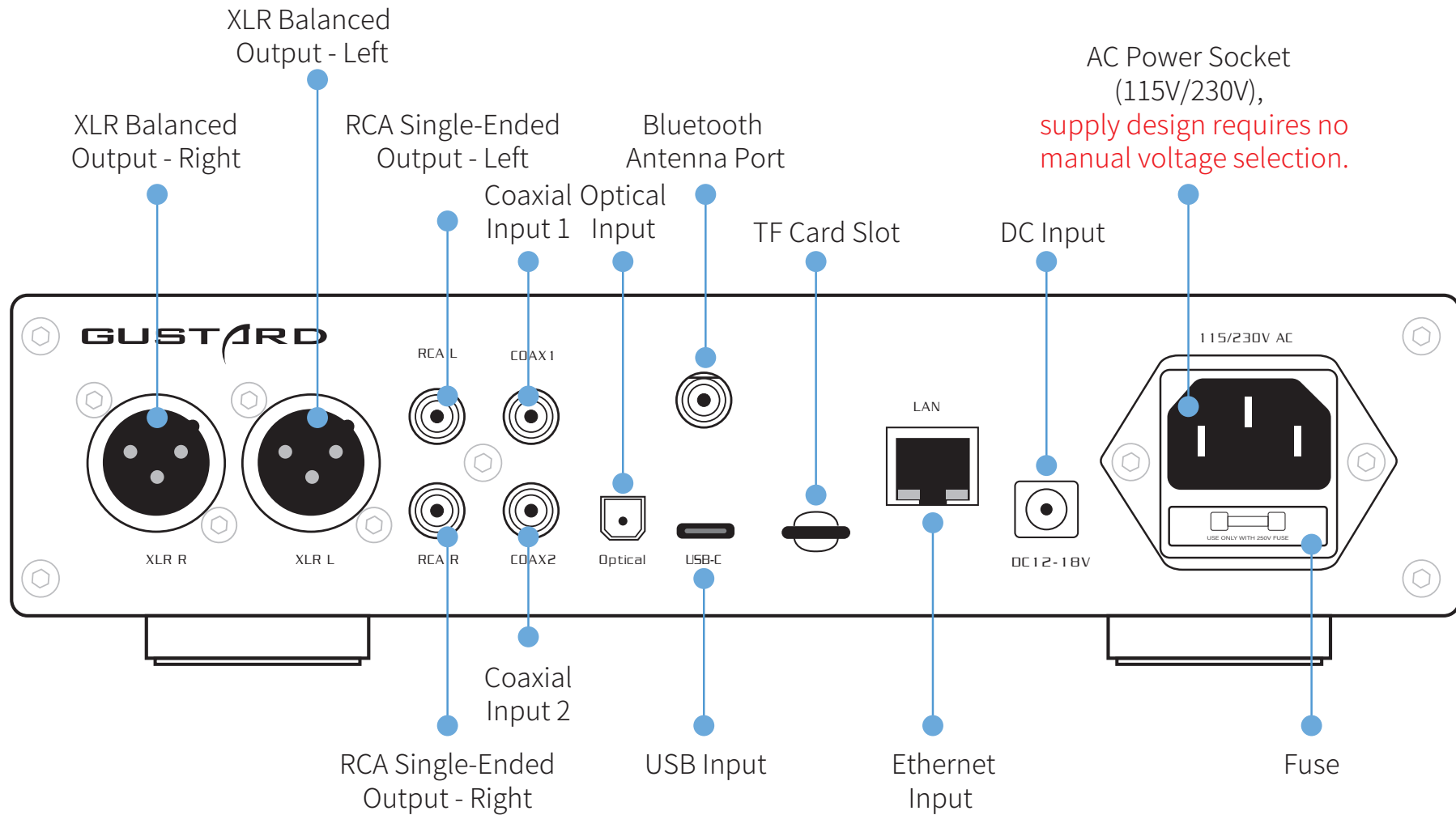


Remote Control



- 1 . Power Button: Press and hold to power off; short press to mute/unmute.
- 2 . Display Screen: Displays input source, audio format, sampling rate, and volume level in real time.
- 3 . Volume Buttons: Use the +/- keys to adjust volume (00-100 levels).
- 4 . Settings Button: Short press to switch input sources; press and hold to enter/exit the menu.
- 5 . Volume Buttons: Use the +/- keys to adjust volume (00-100 levels).

Rear Panel



1. DR70 Display Screen



2 . The DR70 features a total of 6 input sources:

- USB Audio
- Network Stream
- Coaxial 1 (COAX1)
- Coaxial 2 (COAX2)
- OPTOptical (OPT)
- BT Bluetooth (BT)

While the home screen is displayed, briefly press the Settings button to enter input source selection. Use the Volume +/- buttons to navigate, then press the Settings button again to confirm and exit. Press and hold the Settings button to enter the main settings menu.

3. Volume Control (VOLUME):

When the home screen is active, press the Volume +/- buttons to adjust the DR70's volume level, available in 0-100 steps

Settings Menu

4. From the home screen, press and hold the Settings button to enter the Settings Menu. In this mode, press the Settings button to cycle through and select different menu items (the cursor will move accordingly). Press the + button to enter a submenu for the selected item. Whether in a main or sub-menu, press and hold the Settings button to return to the home screen.

The menu items, navigated by moving the cursor, are as follows:

1. Digital Filter: Four digital filter modes.
2. DSD Direct: DSD passthrough settings.
3. Display Brightness: Three-level brightness adjustment.
4. Screensaver: Screensaver settings.
5. Auto Standby: Automatic standby timer.
6. Language: Display language selection (Chinese, English, Japanese).
7. Firmware Update: Update the control program.
8. Factory Reset: Restore factory settings.

5. Menu Functions:

When the main settings menu is displayed on the home screen, press the + button to enter a submenu. The following section details the options available in each submenu.

① Digital Filter

The DR70 offers four digital filter modes:

Fast: R2R DAC operates at 352.8K/384K.

Medium: R2R DAC operates at 176.4K/192K.

Slow: R2R DAC operates at 88.2K/96K.

NOS: D/A convert at the original sampling rate.

② DSD Direct

On: DSD signals are directly passthrough.

Off: DSD signals are converted to PCM for decoding.

When this feature is enabled, there may be some clicking sounds when switching between different DSD formats during DSD playback.

③ Display Brightness

Three brightness levels are available: Bright, Standard, and Dim.

④ Screensaver

On: The screen turns off after 30 seconds of inactivity and lights up upon any status change.

Off: The display remains on continuously.

⑤ Auto Standby

When this function is enabled, the unit will enter standby mode after 15 minutes if it is in an UNLOCKED state,

⑥ Language

The DR70 supports three display languages: Chinese, English, and Japanese.

⑦ Firmware Update

Selecting Yes and pressing the + button will display the update procedure. Press any key to return and enter the device's upgrade mode.

⑧ Factory Reset (Restore Factory Settings)

Restores all settings to their original factory defaults:

Digital Filter: Fast

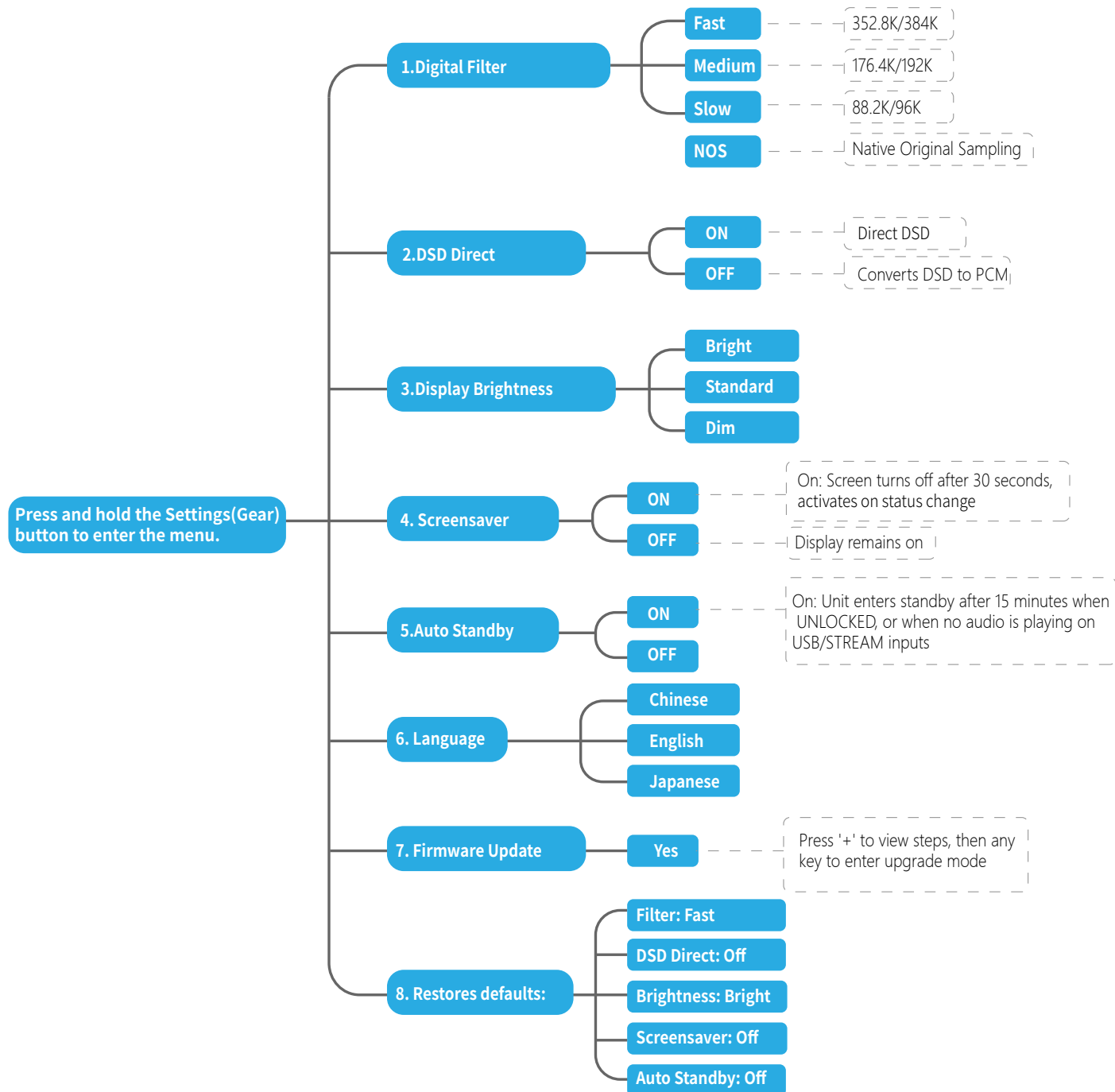
DSD Direct: Off

Display Brightness: Bright

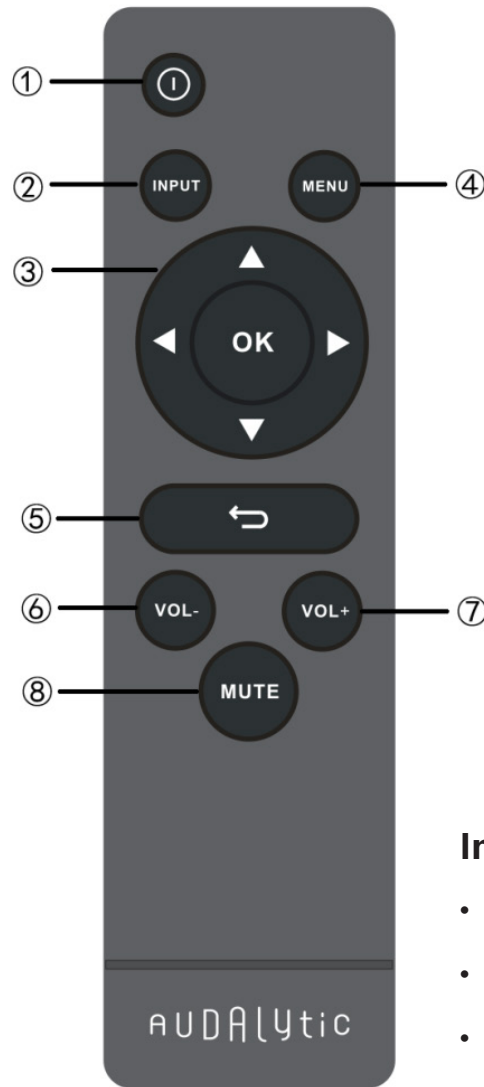
Screensaver: Off

Auto Standby: Off

Menu Functions



Remote Control



① Standby Button: In standby mode, press to wake up the DR70 and activate the display. During normal operation, press to put the DR70 into standby mode.

② Input Select Button: Press to cycle through the available input sources on the DR70.

③ Four-Directional Navigation Button: When the settings menu is open: Use the Up/Down buttons to navigate through menu options. Use the Left/Right buttons to adjust the selected setting. Press the OK button to confirm certain selections.

④ Menu Button: Press to enter the main menu. Press again to exit the menu and return to the home screen.

⑤ Back Button: Returns to the home screen from any menu or submenu.

⑥ Volume Down Button: Decreases the output volume when the DR70 is on the home screen.

⑦ Volume Up Button: Increases the output volume when the DR70 is on the home screen.

Important Notes:

- Operational range may vary depending on the angle of use.
- Obstructions between the remote and the sensor may prevent proper operation.
- Remove the batteries if the remote will not be used for an extended period (one month or longer).
- If battery leakage occurs, thoroughly clean the battery compartment and install new batteries.
- This remote may accidentally operate other infrared-controlled devices when used nearby.

Driver Installation for Windows

- This driver is compatible with various Windows operating systems.
- macOS and Linux systems have built-in plug-and-play support. No additional driver installation is required.
- Related drivers, components, and user manuals can also be downloaded from the website: www.gustard.com
- This driver supports Windows 7 (requires SP1 or later), Windows 8, Windows 10, and Windows 11.

Click the link above to access directly.

Driver Download:

https://www.gustard.com/?page_id=8956

Click the link above to access directly.

User Manual Download:

https://www.gustard.com/?page_id=8958

Click the link above to access directly.

Driver Installation for Windows

1. For desktop users:

Use native USB 2.0 ports

Always prefer rear-panel ports (direct motherboard connection)

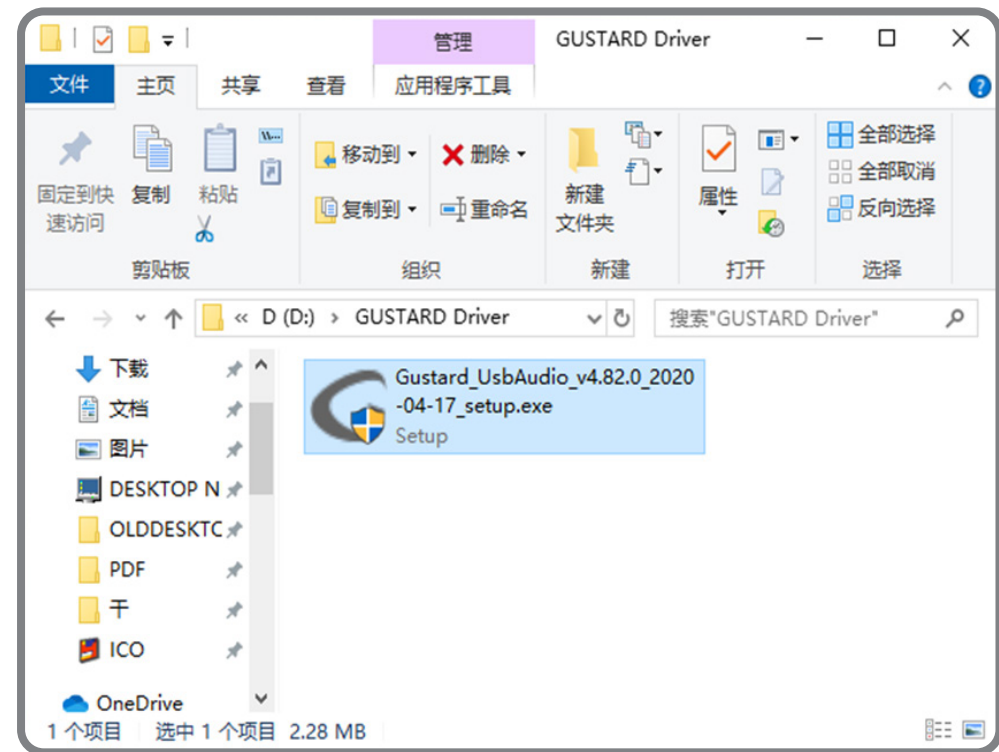
Avoid front-panel ports (extended cable routing degrades high-speed signaling)

2. Connect Gustard device via USB → Power on → If no "New Hardware" prompt appears: Try alternate USB ports
Power-cycle the Gustard USB interface

⚙️ 正在设置设备
正在设置"Gustard USB Audio 2.0"。

3. Run Gustard_UsbAudio_v4.82.0_setup.exe (or later versions):

Click "Yes" in User Account Control prompt



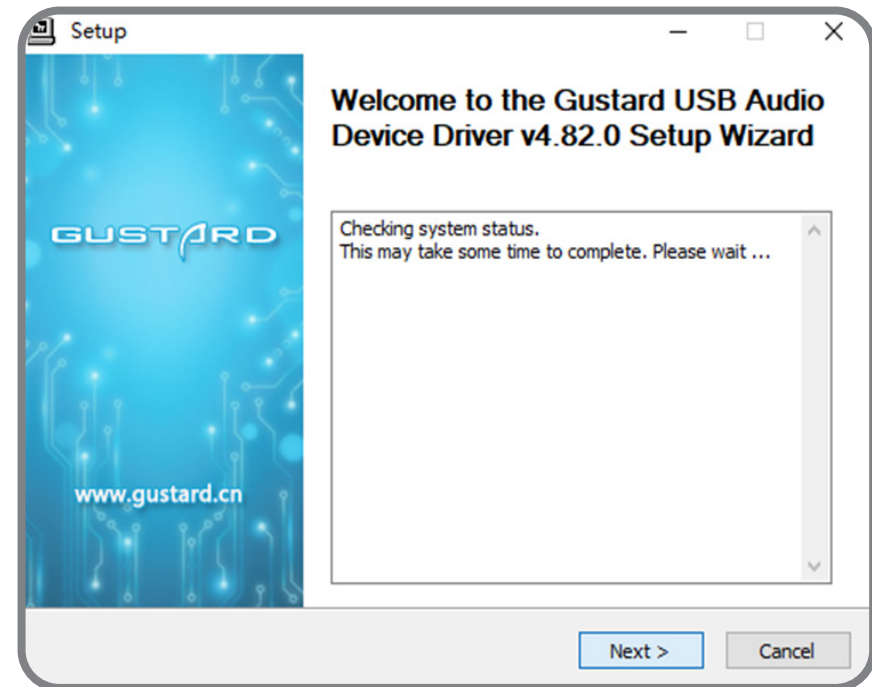
4. Follow on-screen instructions (click Next/Install)



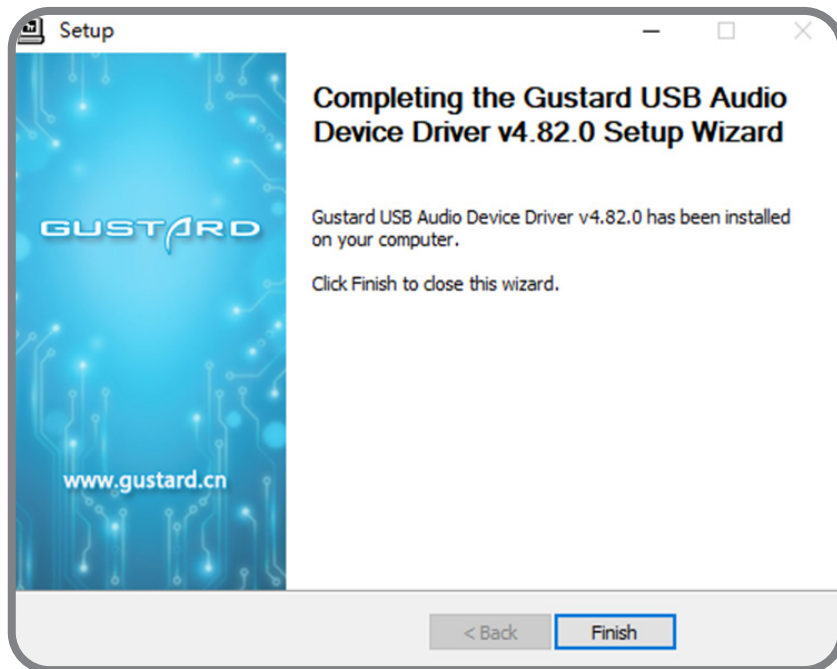
5. If red error appears: "Setup requires that the device is...":

Power-cycle Gustard USB interface

Re-seat USB cable

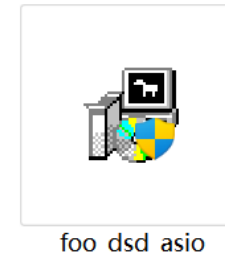


6. Click Finish upon successful installation

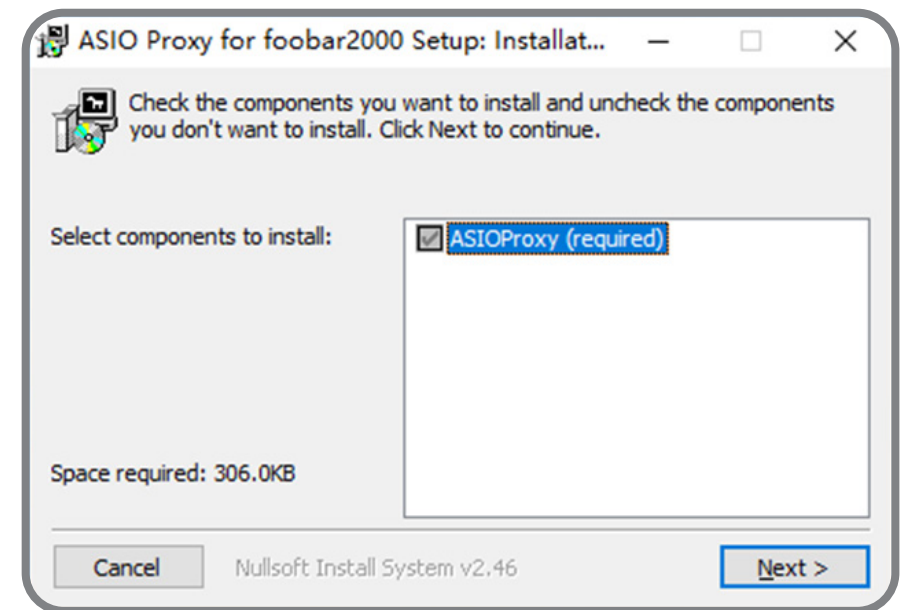


Select YES for any additional prompts

foobar2000 DSD Native Setup

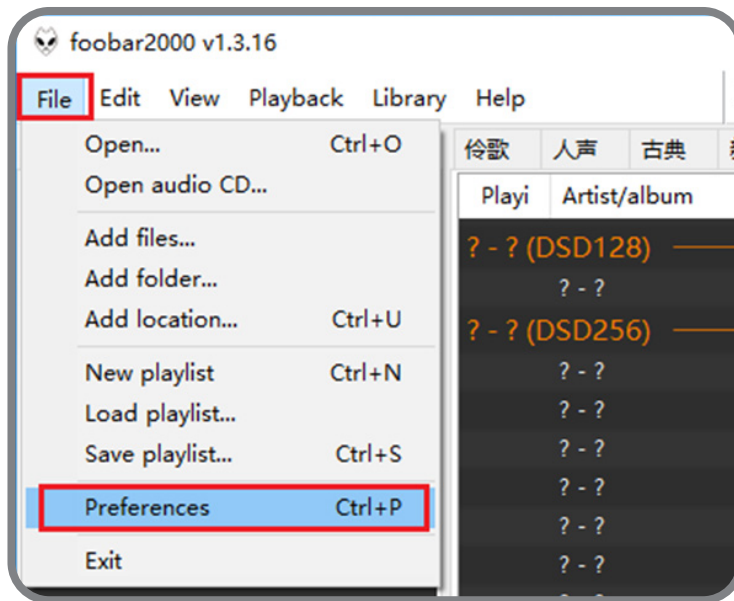


1. Open folder foobar2000_DSD_0.7.X → Run ASIOProxyInstall-0.7.2.exe → Click Next/Install to complete installation.

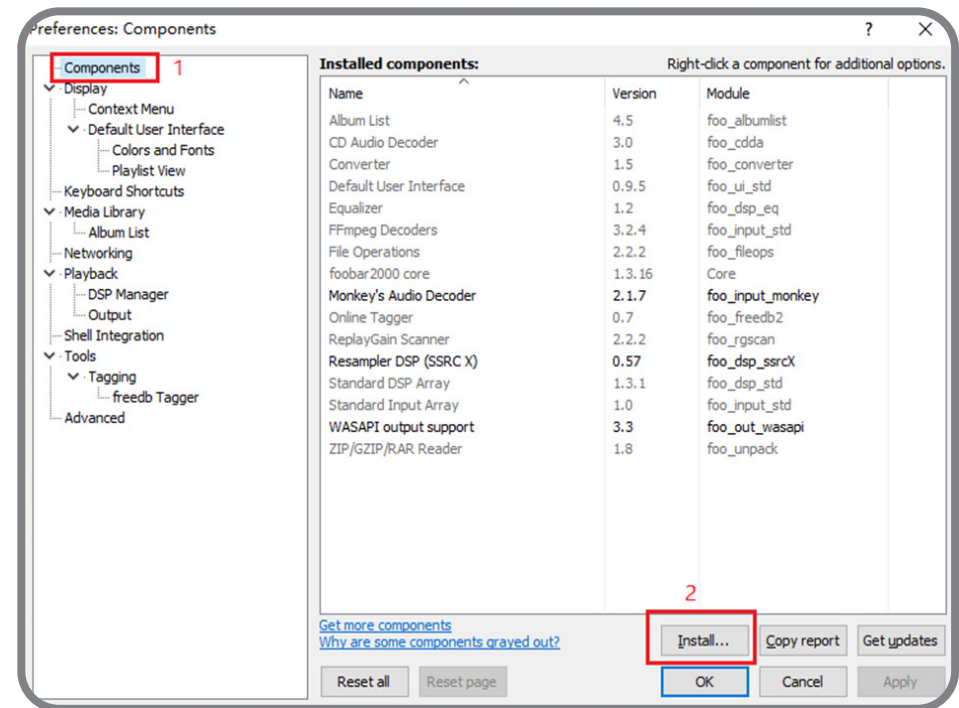


foobar2000 DSD Native Setup

2. Launch Foobar2000 → Click File > Preferences.

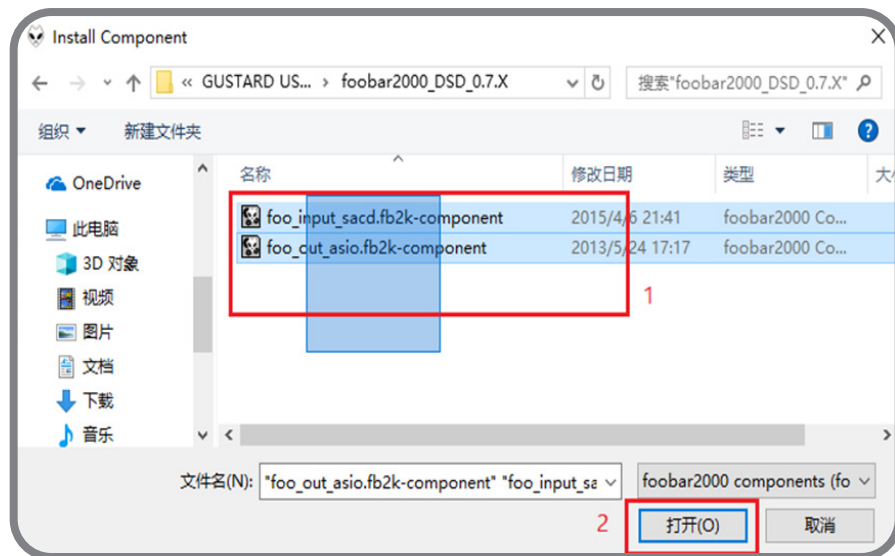


3. Select Components → Click Install → Select both files (click+drag or Ctrl+click)

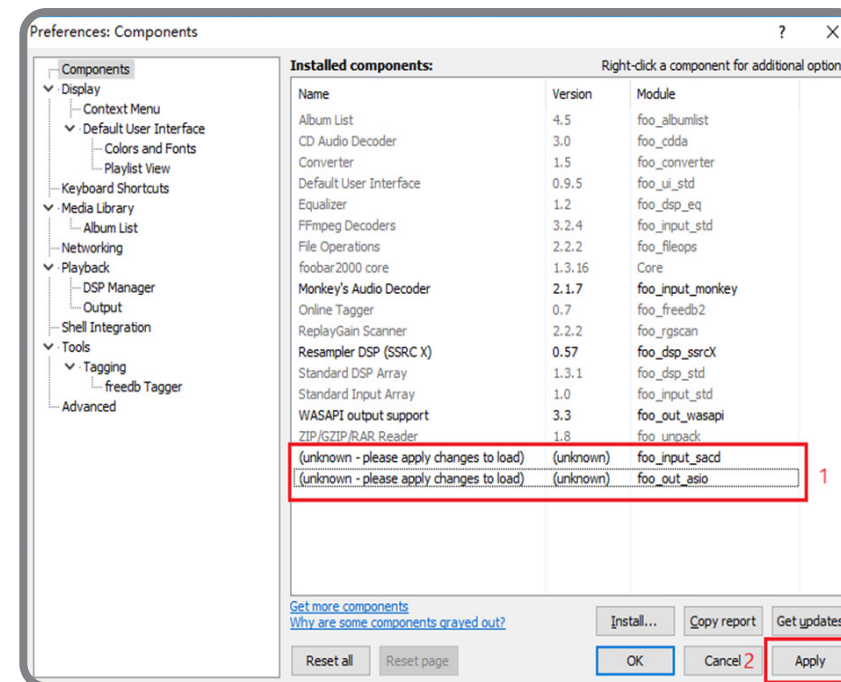


foobar2000 DSD Native Setup

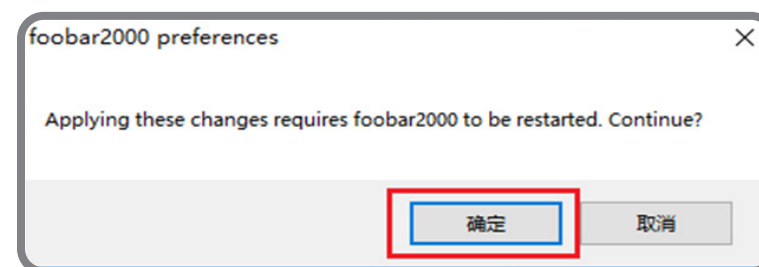
→ Click Open → New components appear in list



→ Click Apply

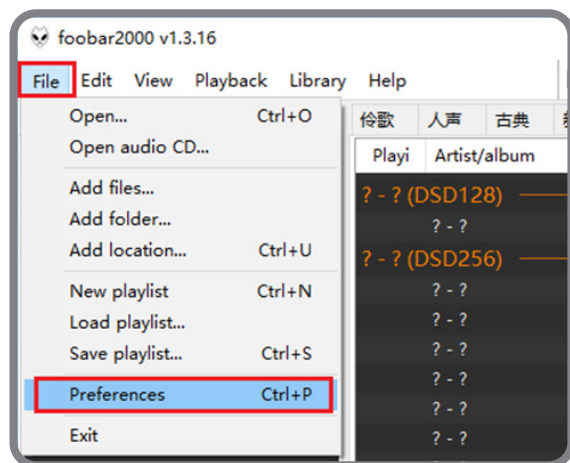


→ Confirm pop-up → Foobar2000 restarts.

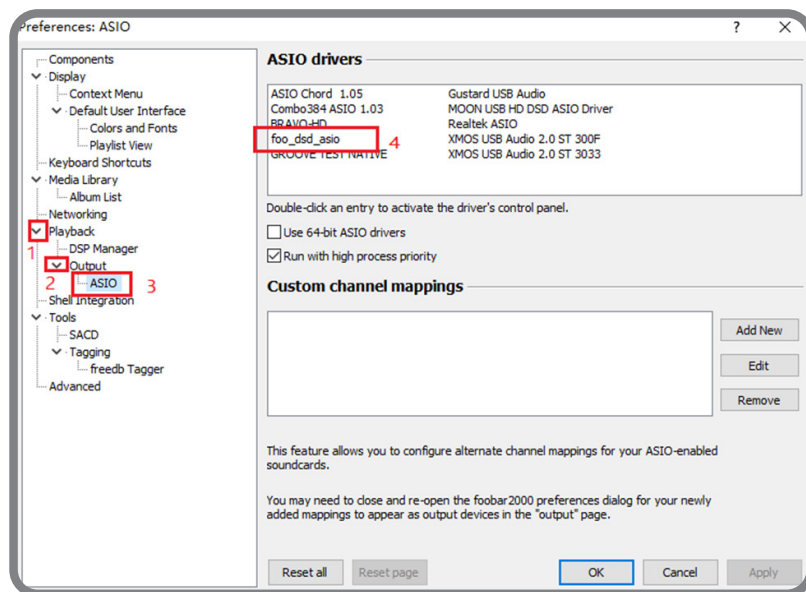


foobar2000 DSD Native Setup

4. Navigate to File > Preferences again.



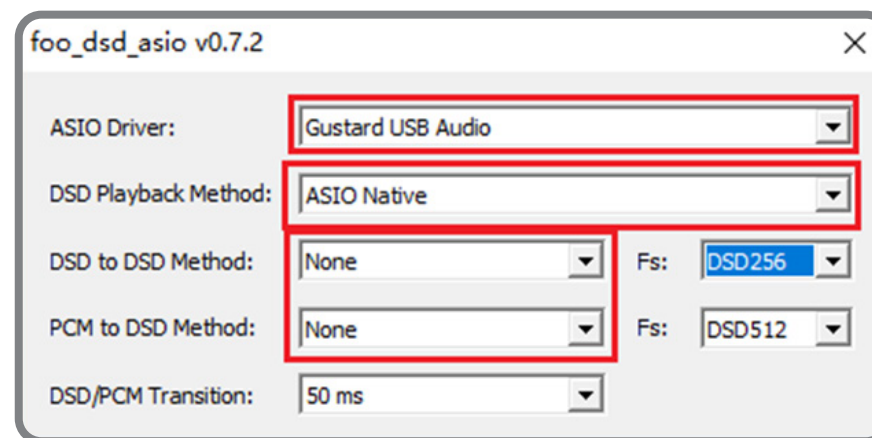
5. Expand Playback > Output > ASIO → Double-click foo_dsd_asio



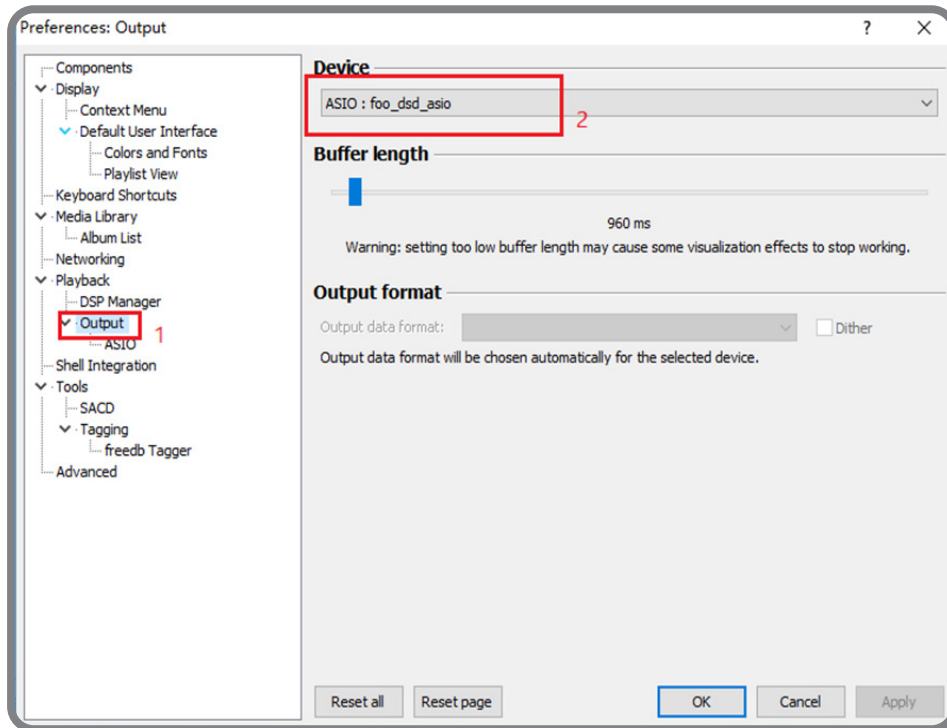
6. In foo_dsd_asio v0.7.2 window:

- ASIO Driver: Select Gustard USB Audio
- DSD Playback Method: Select ASIO Native
- Configure other settings per red-highlighted areas →

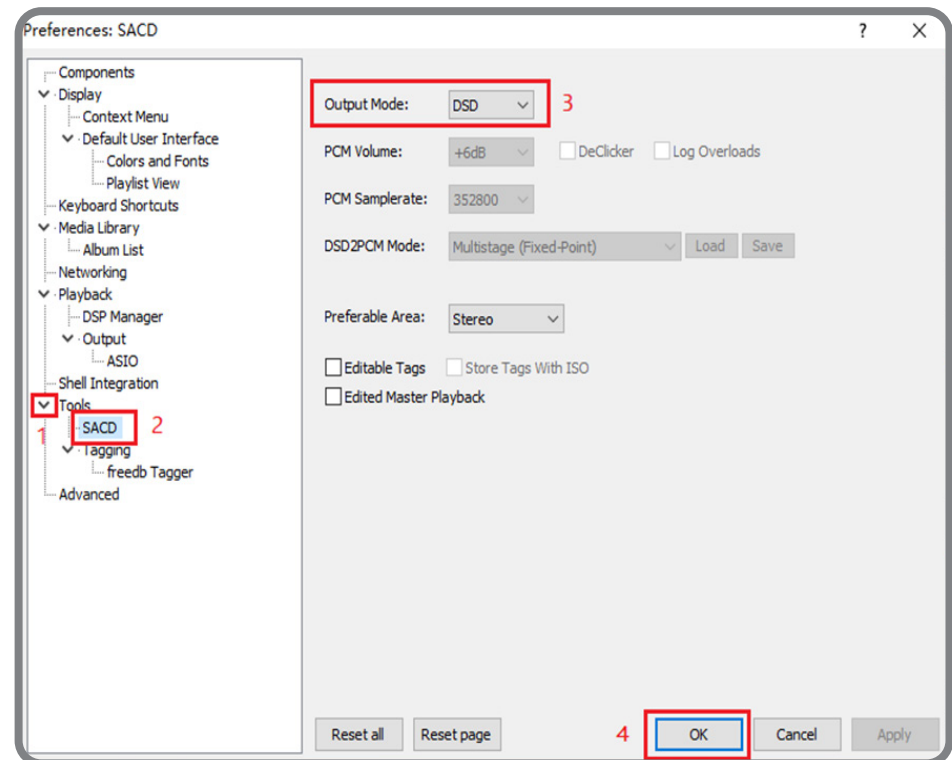
Click X to close



7. Select Output → Device dropdown → Choose ASIO: foo_dsd_asio



8. Go to Tools > SACD → Output Mode: Select DSD → Click OK to complete.

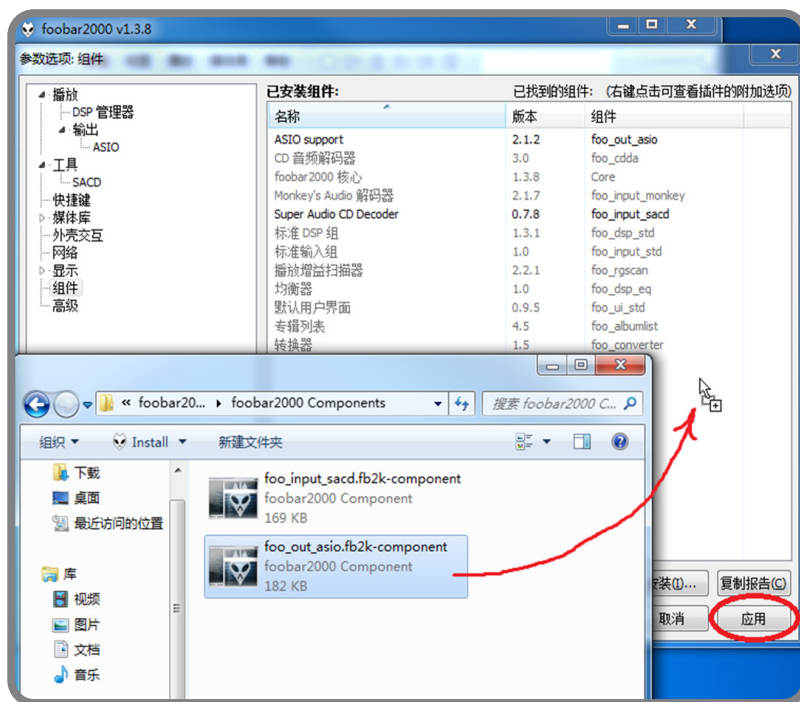


foobar2000 DSD Playback Troubleshooting

1. Why is ASIO missing under Playback > Output in Preferences?

Cause: ASIO component not installed.

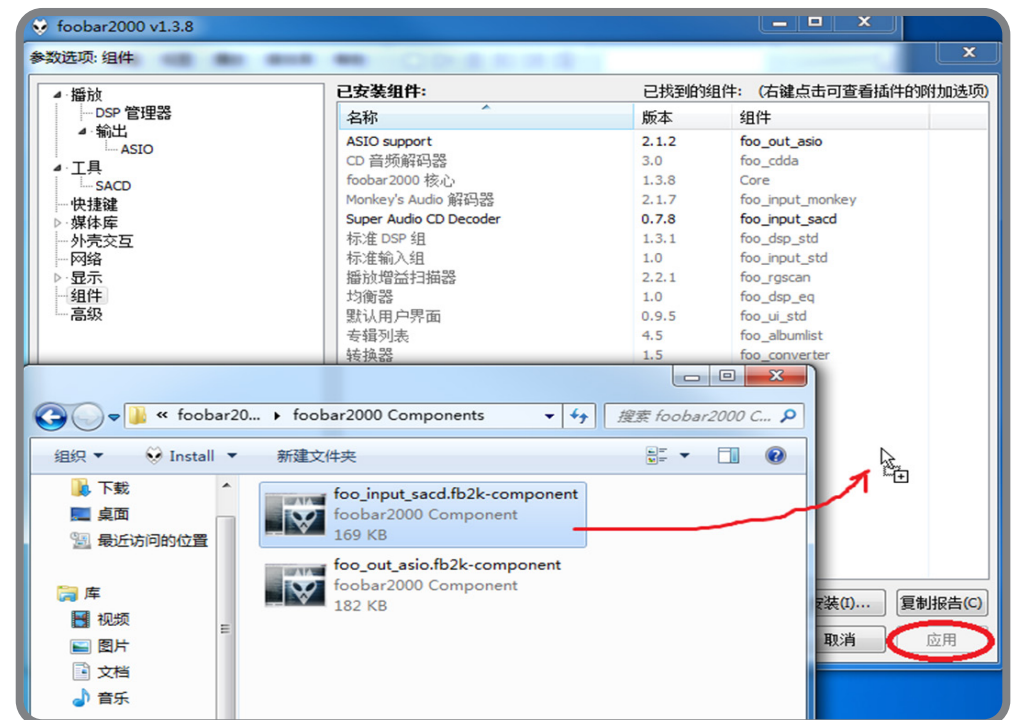
- Drag foo_out_asio.fb2k-component from foobar2000_DSD_0.7.X folder into the blank area of Foobar2000's Components panel
- Click Apply → Confirm restart prompt
- ASIO appears after relaunch



2. Why is SACD missing under Tools?

Cause: SACD component not installed.

- Drag foo_input_sacd.fb2k-component from foobar2000_DSD_0.7.X folder into the blank area
- Click Apply → Confirm restart
- SACD appears after relaunch

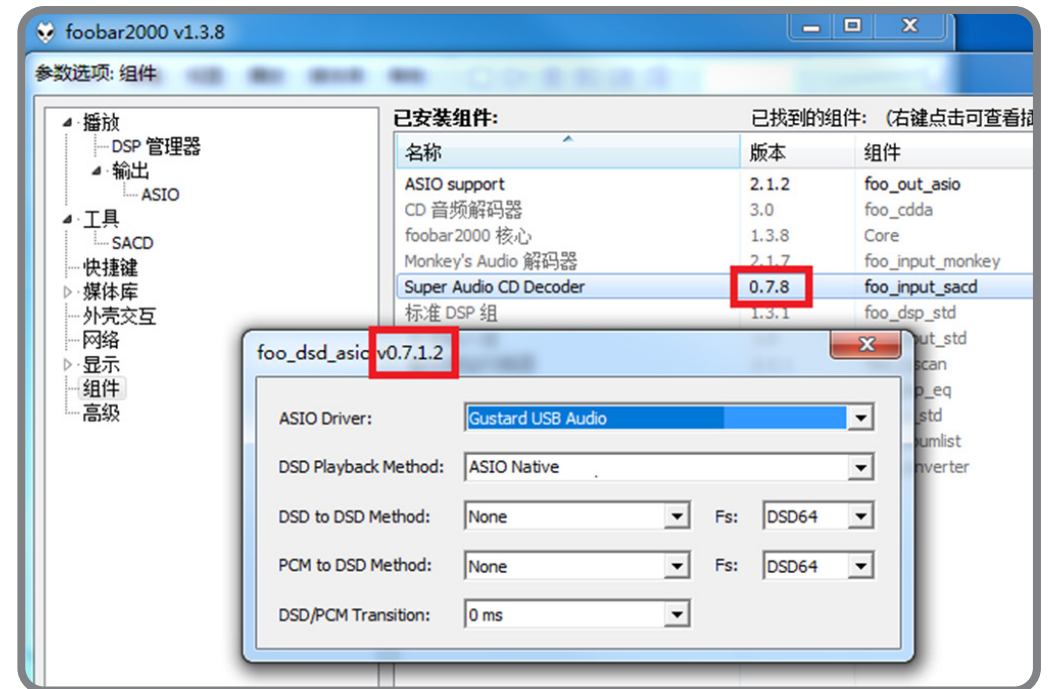
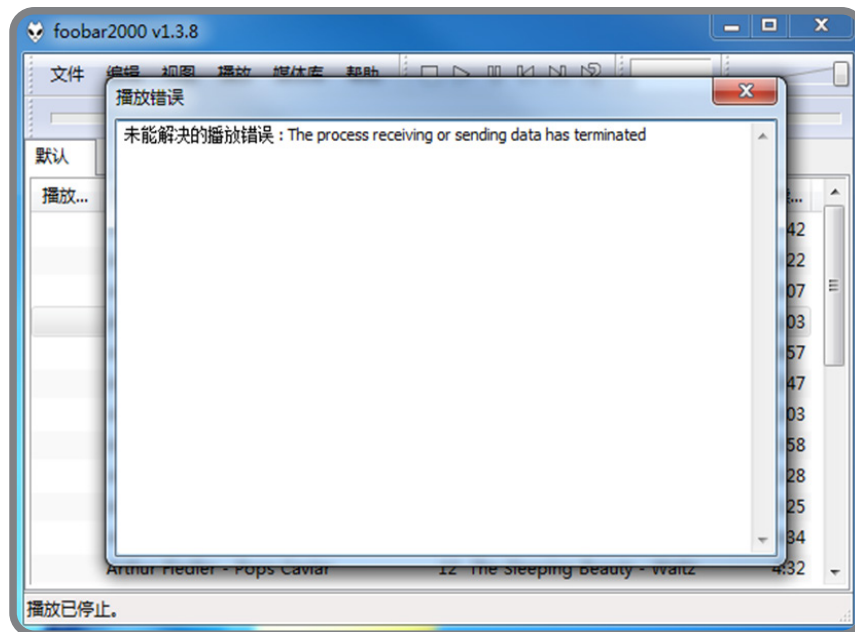


foobar2000 DSD Playback Troubleshooting

3. Why does DSD playback fail with this error despite correct settings?

Cause: Version conflict between ASIOProxy and SACD decoder components.

- Correct version pairing: Both must be 0.7.X series (see diagram)



foobar2000 DSD Playback Troubleshooting

- Correct version pairing: Both must be 0.7.X series (see diagram)
- Common issue: Older foobar2000 installations using SACD component v0.6.X with ASIOProxy v0.7.2

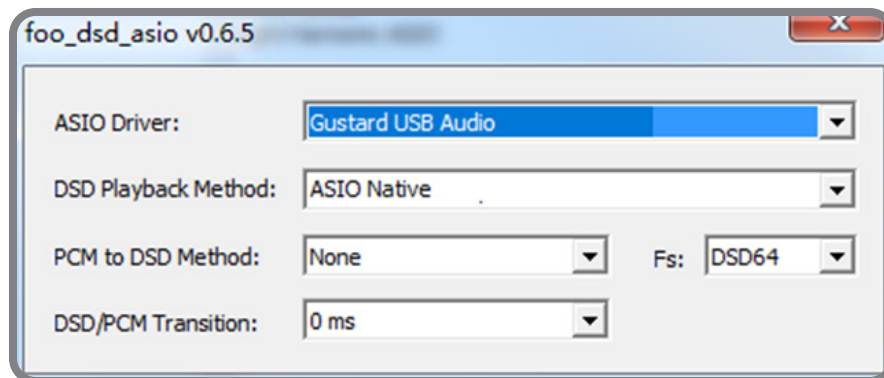
Solutions:

Option 1: Update SACD component per Solution 2 above → If components are locked:

- Reinstall latest official foobar2000 release

Option 2: Without reinstalling foobar2000:

- Install legacy driver ASIOProxyInstall-0.6.5.exe
- Search online for verified download



Digital Inputs:

- COAX/OPT Input Support: PCM 16-24bit/44.1-192kHz; DSD DoP64
- USB/Streamer Input Support: PCM 16-32bit/44.1-768kHz; DSD DoP64-DoP256; Native DSD: DSD64-DSD512
- BT Bluetooth 5.1 Input Support: High-resolution codecs including LDAC, AAC, SBC, aptX, aptX LL, aptX HD.
- LDAC supports high-bitrate transmission up to 24Bit/96kHz.
- *USB Input OS Support: WIN7/WIN8/WIN10/WIN11 (32 & 64-bit); Mac OS X; Linux*

Analog Output:

- Frequency Response: 20-20kHz (± 0.2 dB, OS Mode)
- Dynamic Range: >111dB
- Signal-to-Noise Ratio (SNR): >113dB
- Channel Crosstalk: -125dB @ 1kHz
- THD+N: $\leq 0.004\%$ @ 1kHz
- IMD: $\approx 0.009\%$ @ -2dBFS
- RCA Output Level: 2Vrms (Volume Fixed)
- RCA Output Impedance: 100 Ω
- XLR Output Level: 4Vrms (Volume Fixed)
- XLR Output Impedance: 100 Ω

Other Parameters:

- Power Supply: AC 115V/230V, 50/60Hz
- DC:12V-18V, ≥ 2 A
- Power Consumption: <10W
- Dimensions (W x H x D): 220mm x 50mm x 170mm (Excluding protruding parts)
- Weight: 2kg (Including packaging)

Thank you very much for choosing the HIFI products of the GUSTARD brand. To safeguard your rights and interests, please read the following warranty terms carefully. So that you can promptly obtain the comprehensive after-sales service provided by GUSTARD for you.

**** Product Warranty ****

You will enjoy the 2-year free warranty and lifetime maintenance after the date purchasing GUSTARD' s HIFI product.

* The manufacturer bears only the freights from Chinese mainland. Part of the freight and tax generated from overseas will be solved by the user with the dealer negotiation.

****Free Warranty Service****

GUSTARD from the purchasing date in the free warranty period, the user uses the product in normal, and the product fails due to component quality or manufacturing problems.

****Beyond the Warranty Service****

Belonging to one of the following circumstances, products are no longer provided warranty service.

- a. Products from the date of purchase has exceeded a predetermined warranty period.
- b. Model, barcodes and purchase date do not match the actual product and warranty card.
- c. Without GUSTARD technician permission, unauthorized modifications to the circuit, components or self-repaired product.
- d. Damaging caused by irresistible natural forces.
- e. Beyond the permitted use of environmental damage.
- f. Damaging due to incorrect use or improper storage. Including but not limited to: the voltage is too high to burn the circuits or components; Bumping and resulting in damaging the shell or internal; damaging due to water, oil, liquid and excessive dust; product oxidation or corrosion, etc.
- g. Beyond the warranty period, such as an individual component damage, appearance

due to human damage, firmware modifications lead to unable to work by unauthorized users. GUSTARD commits to take reasonable maintenance fees (except large area components or circuit board burned beyond repair). Freight and maintenance costs, material costs are required the user to bear.



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