

GUSTARD



U26
USB Digital Audio Interface

User Manual
V1.0

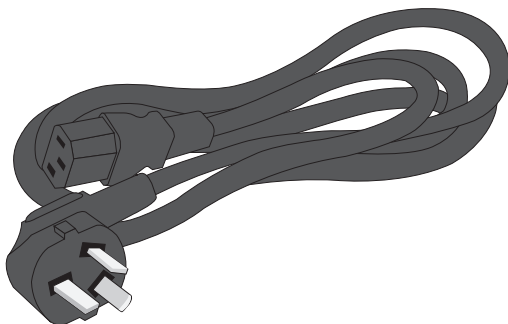
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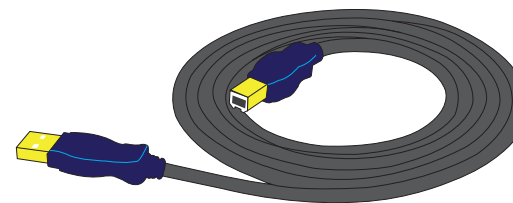
Main Unit



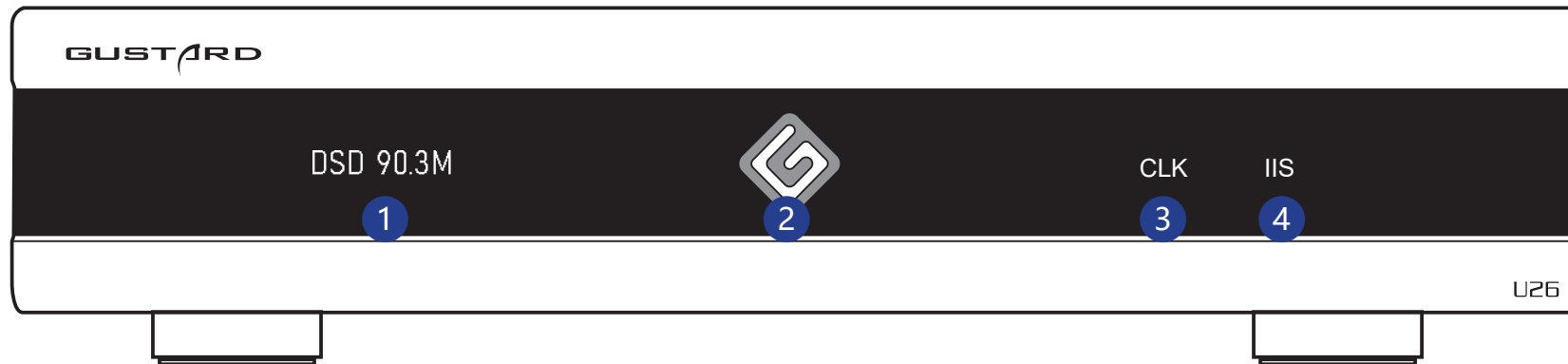
Warranty Card



Power Cord

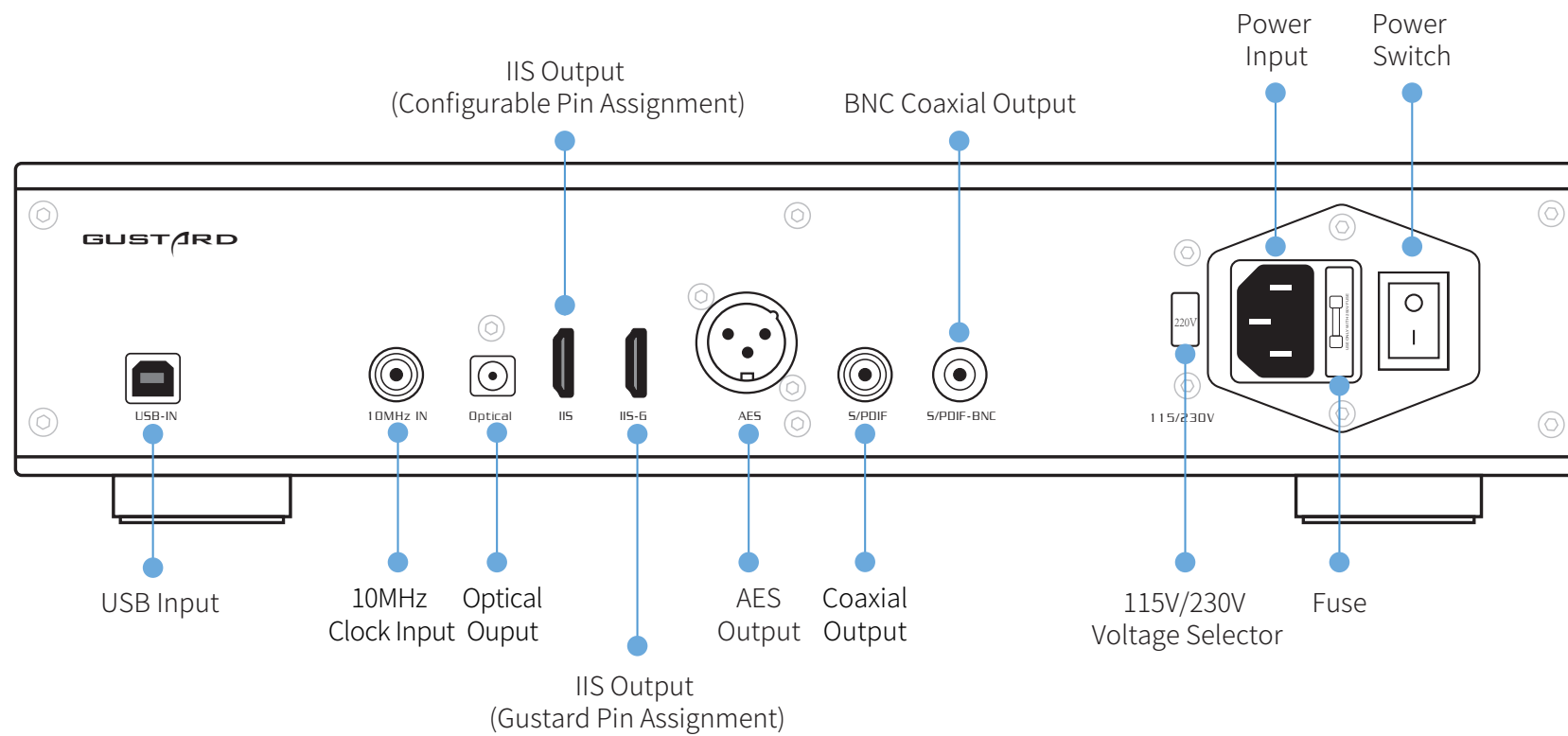


USB Cable



- 1 Display: Shows audio format and sample rate in real time.
- 2 Logo Button: Short press to cycle through screen brightness levels. Long press to restart the USB audio controller.
- 3 CLK Button: Short press to switch between internal and external clock. Long press to enter IIS MCLK output rate selection menu.
- 4 IIS Button: Short press to cycle through operation modes. Long press to enter DSD FLAG switching menu.

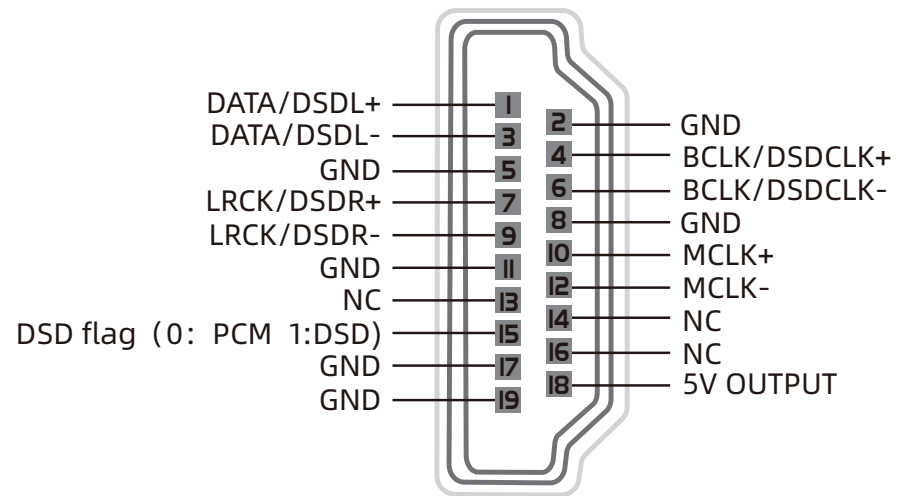
PS: U26 clock status indicators:
External clock: CLK lights blue
Internal clock: CLK lights white
Clock error: Screen flashes "EXT.ERR" while CLK indicator blinks



IIS Digital Interface

IIS-G: Fixed Gustard standard protocol

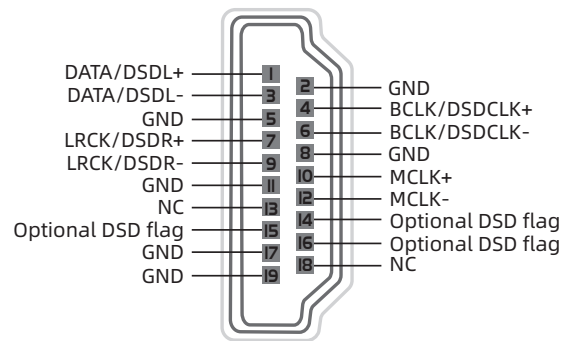
IIS-G



IIS OVER HDMI(Socket view)

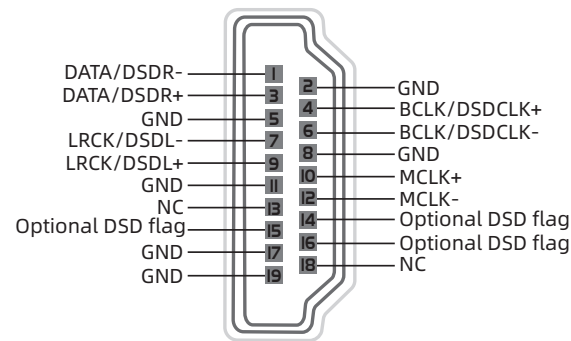
IIS: Configurable pin assignment mode, MODE1~MODE5。

MODE1



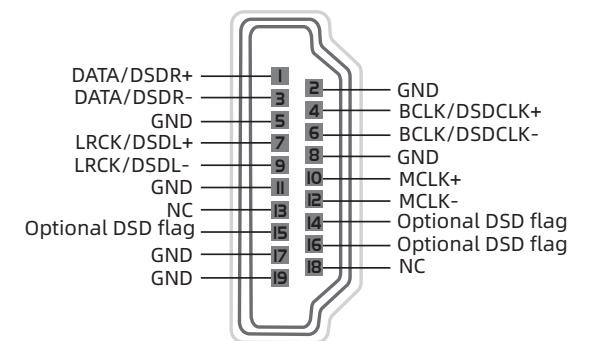
IIS OVER HDMI(Socket view)

MODE2



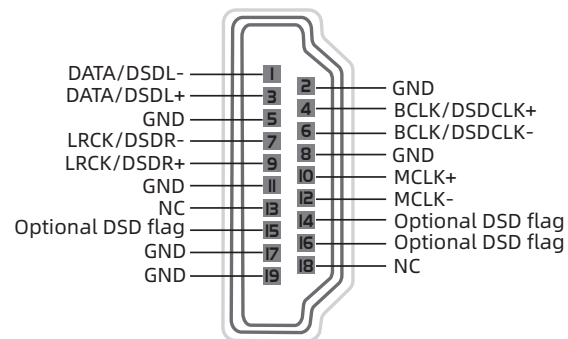
IIS OVER HDMI(Socket view)

MODE3



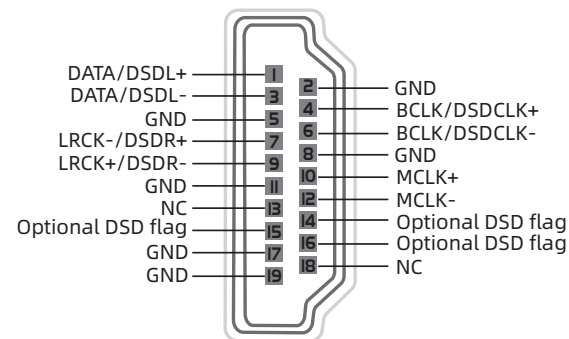
IIS OVER HDMI(Socket view)

MODE4



IIS OVER HDMI(Socket view)

MODE5



IIS OVER HDMI(Socket view)

1.U26 LOGO Button: (Settings are automatically saved after a period of inactivity)

DISPLAY: Short press to access the screen brightness adjustment menu. Short press again to cycle through options. Long press to exit quickly.

RESET USB CTRL: Long press the LOGO button from the home screen to reset the USB AUDIO controller. (Use this function if the device becomes unresponsive)

U26 IIS Button: (Settings are automatically saved after a period of inactivity)

IIS Mode: Short press to access the IIS wiring mode menu. Short press again to cycle through options. Long press to exit quickly.

DSD FLAG: Long press to access the DSD FLAG switching menu. Short press again to cycle through options. Long press to exit quickly.

2. U26 IIS Button: (Settings are automatically saved and exited after a period of inactivity)

IIS Mode:

Short press to enter the IIS pinout mode switching menu.

Short press again to toggle between options.

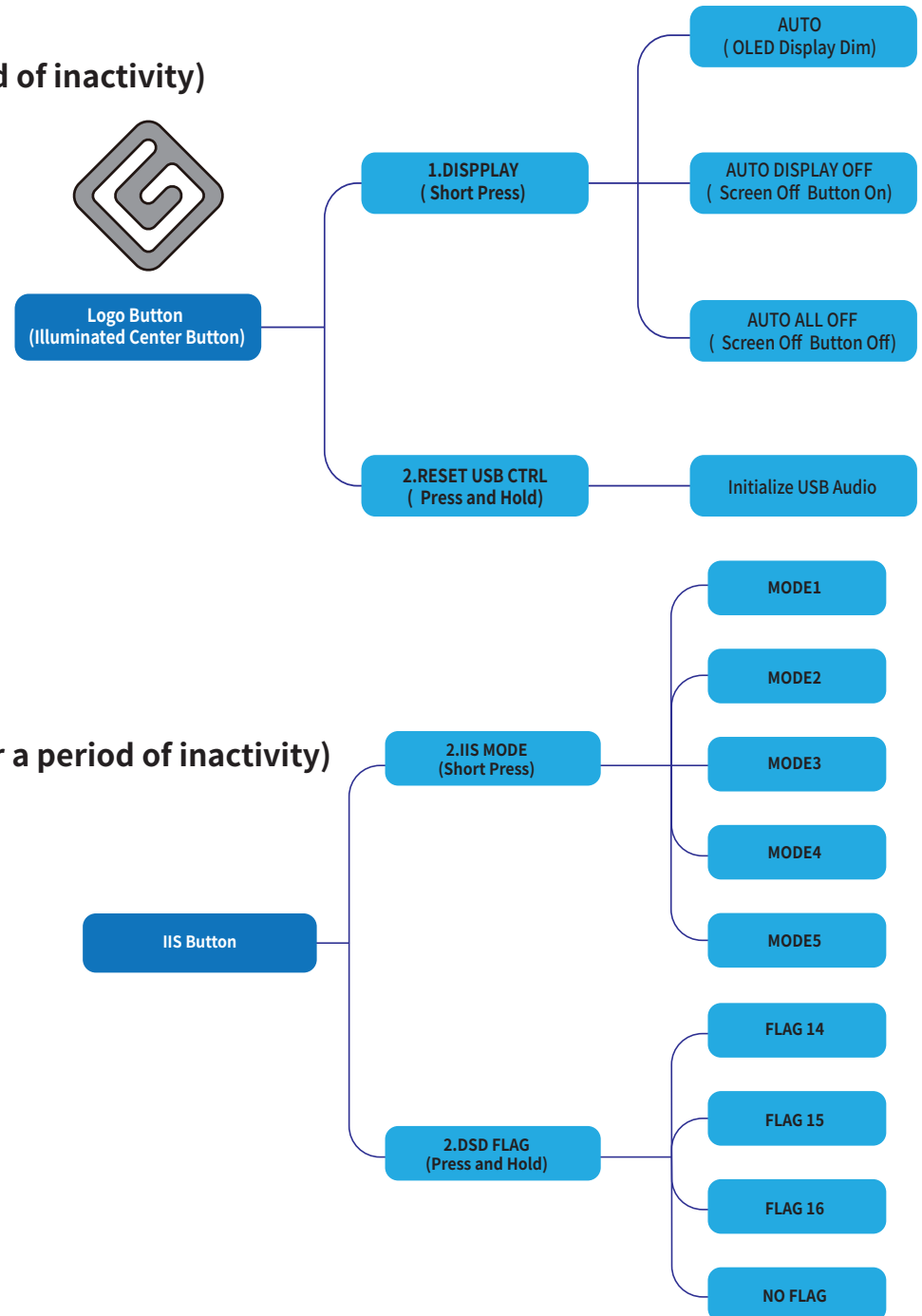
Long press to exit quickly.

DSD FLAG:

Long press to enter the DSD FLAG switching menu.

Short press again to toggle between options.

Long press to exit quickly.



3. U26 CLK Button: (Settings are automatically saved and exited after a period of inactivity)

REF. CLOCK:

Short press to enter the reference clock switching menu.

Short press again to toggle between options.

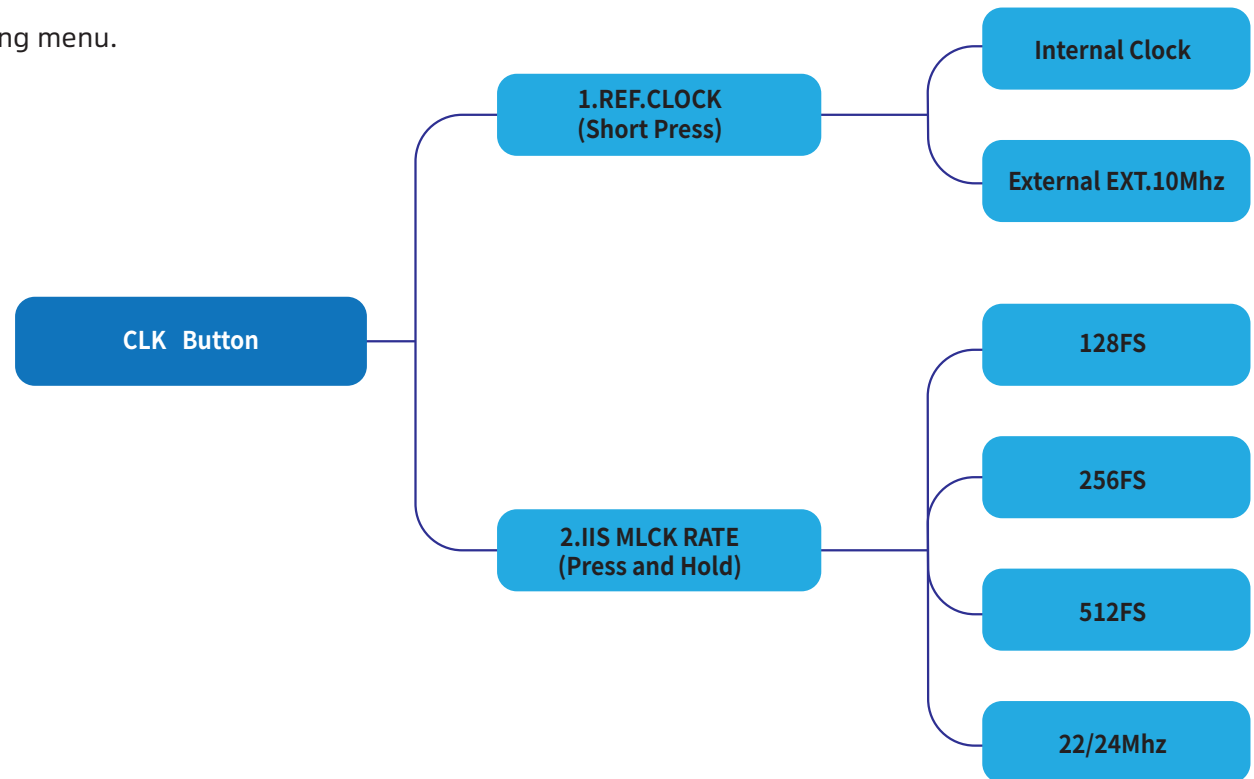
Long press to exit quickly.

IIS MCLK RATE:

Short press to enter the IIS MCLK output rate switching menu.

Short press again to toggle between options.

Long press to exit quickly.



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.cn
- This driver supports Windows 7 (requires SP1 or later), Windows 8, Windows 10, and Windows 11.

Driver Download:

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

Click the link above to access directly.

User Manual Download:

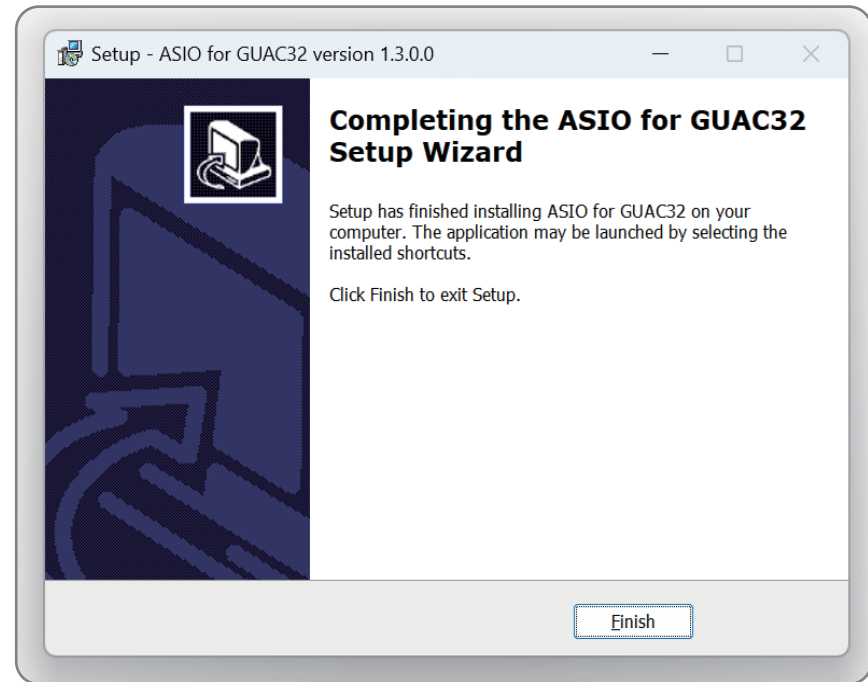
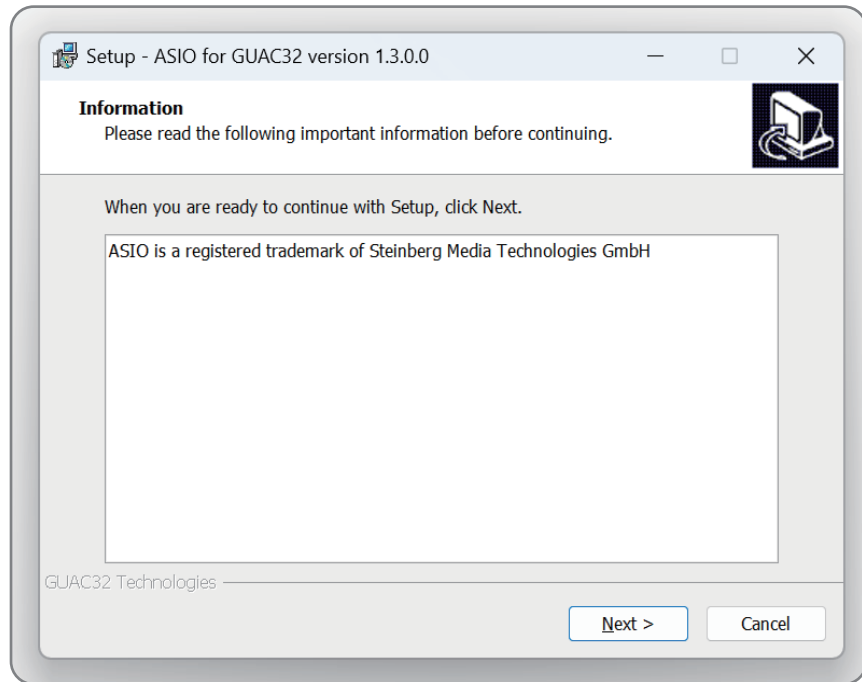
https://www.gustard.com/?page_id=8958

Click the link above to access directly.

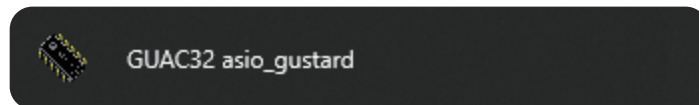
1. For desktop users connecting to the DAC, it is recommended to use a native USB 2.0 port. It is strongly advised to use the ports on the back of the PC, as they connect directly to the motherboard. The front panel ports utilize extension cables, which can negatively impact high-speed signal integrity.
2. Connect the Gustard device to your computer using a USB cable, then power on the device. Your computer should detect new hardware and attempt to configure it. If no prompt appears, try a different USB port or restart the Gustard device's USB connection.
3. Extract the GUAC32_ASIO_win.zip file. Double-click to run asioguac32.exe (as an example; newer versions follow the same procedure). If a "User Account Control" window appears, click "Yes".
4. Follow the on-screen instructions, clicking "Next" or "Install" as prompted to complete the installation.

Fooobar2000 DSD Native Setup

First, install the driver.



Ensure the driver is properly installed. You can verify this by: Clicking the Start Menu > All Programs:



If you can find this icon, that means it is good to go.

To avoid potential plugin interference with DSD playback, the recommended download address is:

<https://www.foobar2000.org/download>

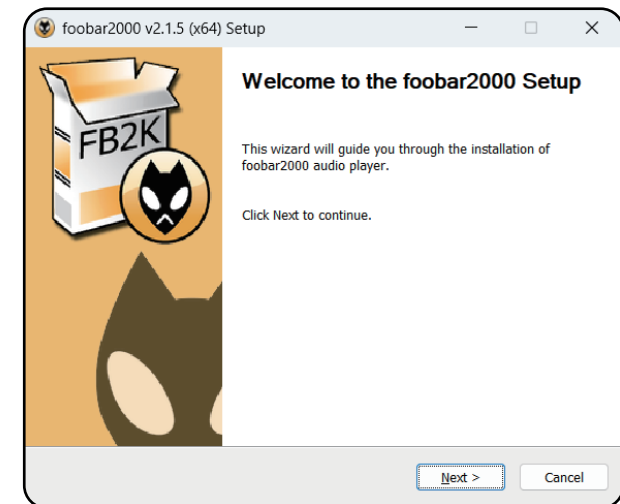
Click the link above to access directly.

Version 2.1.5 can be downloaded by searching for the "Old versions of foobar2000" section on the webpage. Additionally, completely remove any previously installed versions of FOOBAR2000 before installation.

After installing FOOBAR2000, install only this two plugins provided by us:

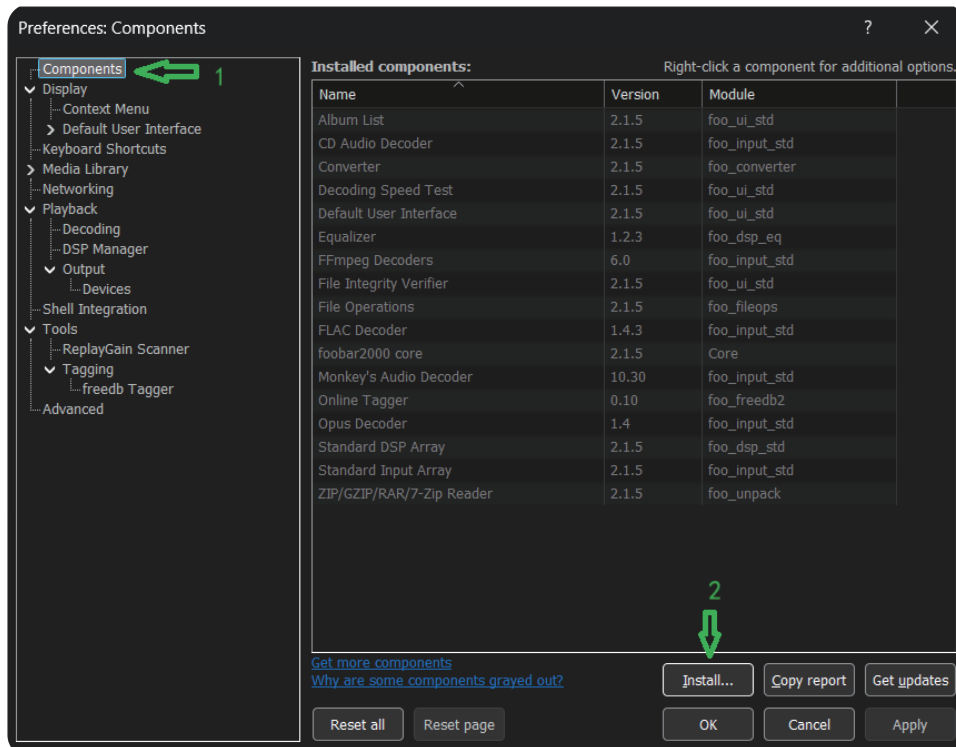
foo_input_sacd.fb2k-component
foo_out_asio+dsd.fb2k-component

First, install the Foobar2000 version 2.1.5



FooBar2000 DSD Native Setup

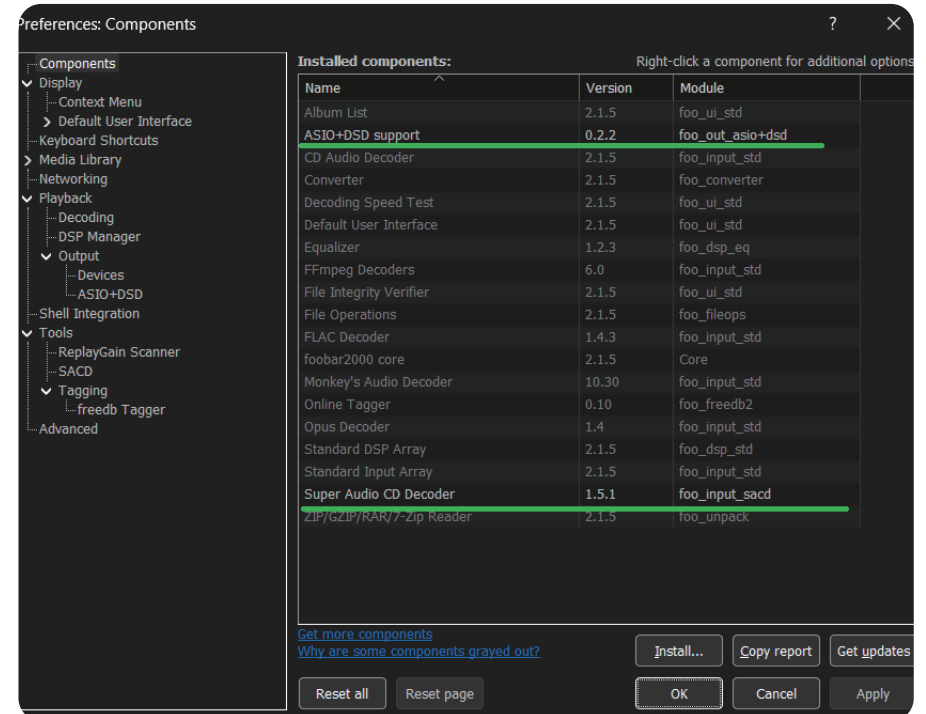
After installation is complete, launch the application and navigate through File > Preference to open the settings interface. Under the Components section, install the two components we provided.



foo_input_sacd.fb2k-component
foo_out_asio+dsd.fb2k-component

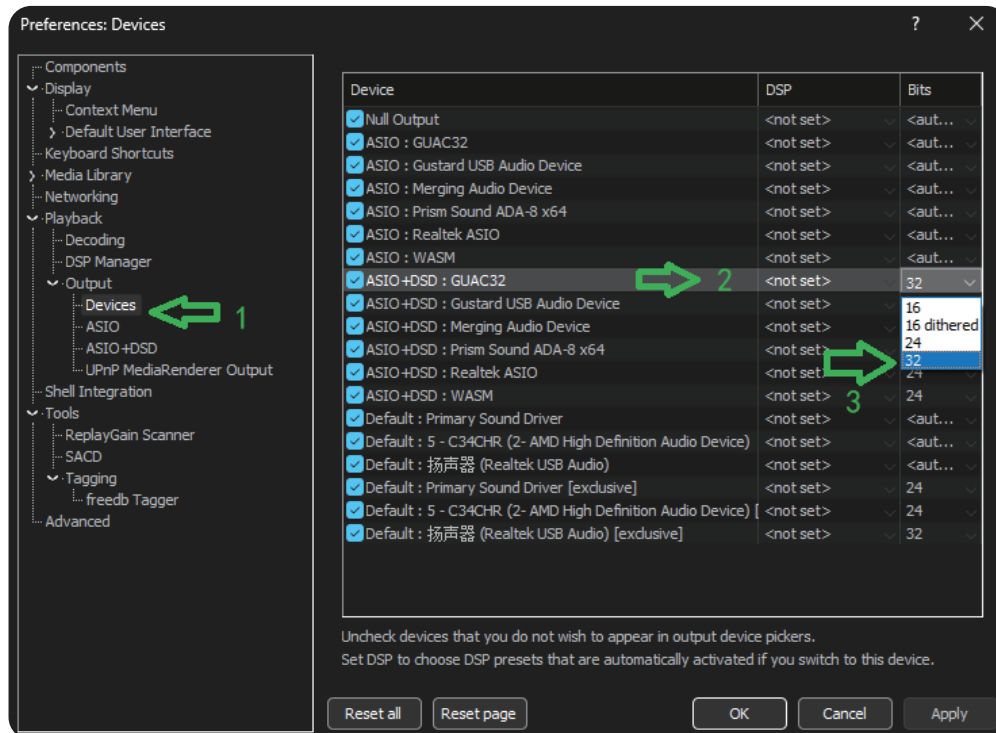
Once installed, be sure to click Apply (this step must not be skipped), after which the software will restart.

Reopen the settings by going to File > Preference again. Verify that the components have been successfully installed:

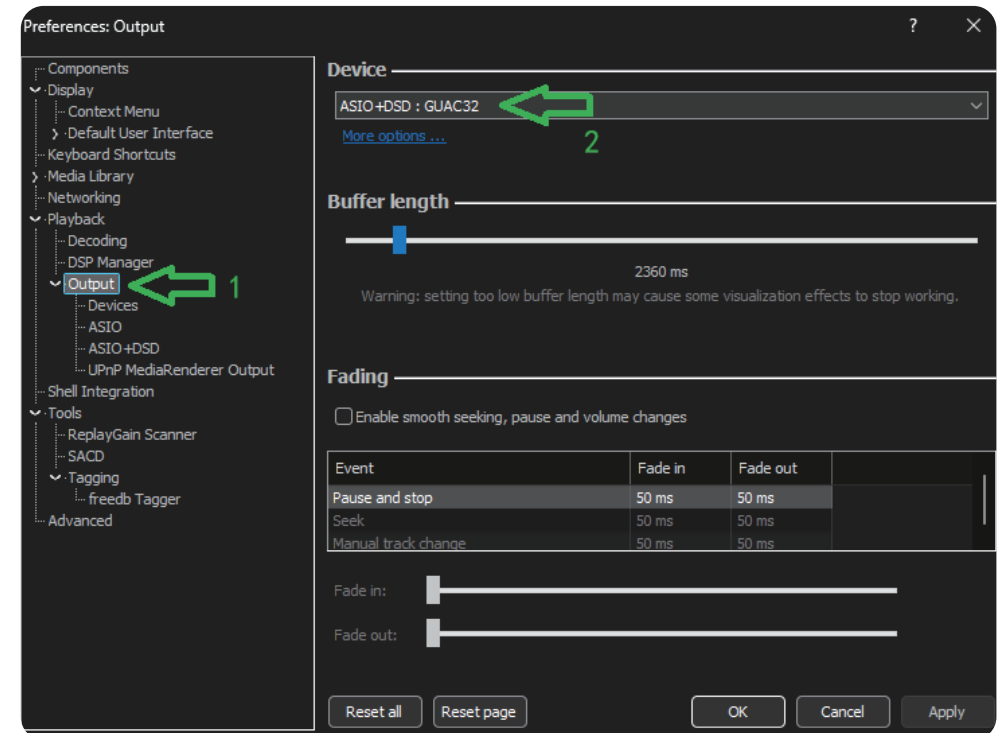


Foobar2000 DSD Native Setup

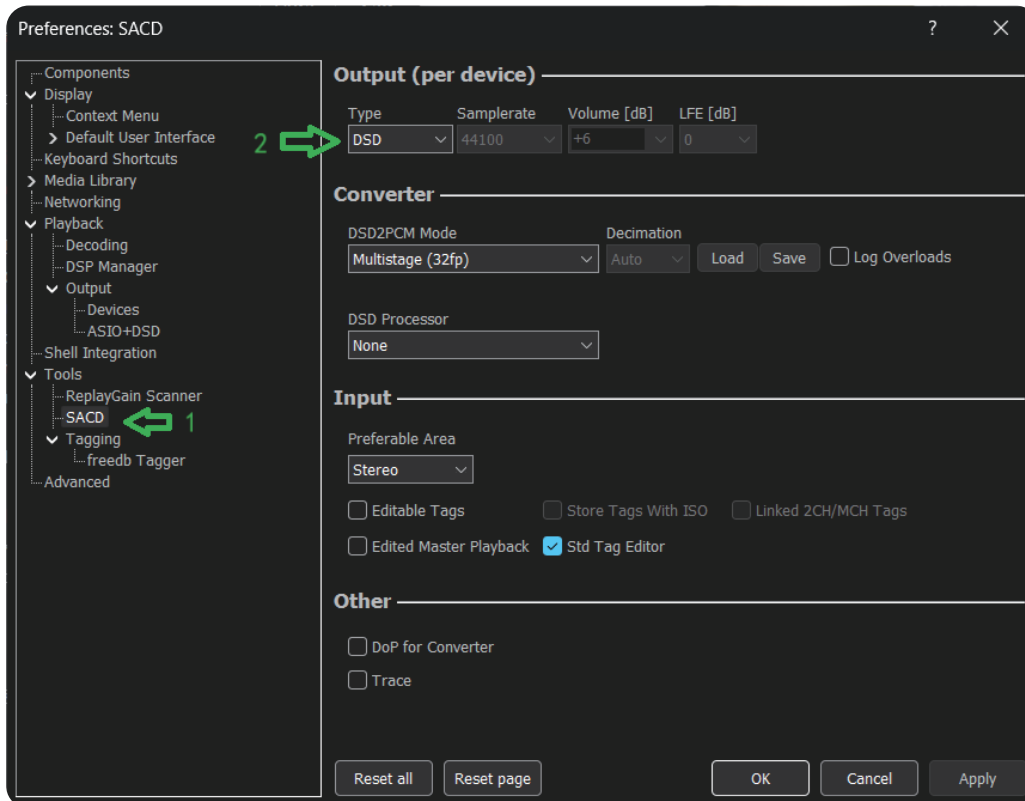
Then under the Devices section, first set the GUAC32 device bits value to 32 bits. Remember to click Apply in the lower right corner after completing this setting. The same applies to subsequent steps - click Apply after configuring each page.



Next, under the Output section, select ASIO+DSD : GUAC32. Remember to apply the settings :)



Finally, under the SACD section, set TYPE to DSD. After clicking Apply, select OK to complete the setup.



Once these steps are completed, you can open your music files and begin playback.

If you can hear audio output when playing DSD files, but the sample rate appears incorrect, this is a playback software configuration issue, please do not suspect a hardware problem. If you can hear sound through the USB interface, the hardware is functioning correctly. Please double-check whether the previous settings were configured properly.

Digital Inputs:

USB Interface: USB Type-B (Female), USB 2.0

10MHz BNC Input: Input impedance 50Ω, 0dBm-20dBm, CMOS square wave 0.2V-3.3V, Sine wave 0.5V-3.3V

Digital Outputs:

COAX (Coaxial): Output impedance 75Ω, Output level $\geq 500\text{mV P-P @}75\Omega$ PCM: 24bit 44.1k-384k / DoP64-128

BNC S/PDIF: Output impedance 75Ω, Output level $\geq 1000\text{mV P-P @}75\Omega$ PCM: 24bit 44.1k-384k / DoP64-128

AES (XLR): Output impedance 110Ω, Output level $\geq 2.1\text{V P-P @}110\Omega$ PCM: 24bit 44.1k-384k / DoP64-128

TOSLINK (Optical): PCM: 24bit 44.1k-192k / DoP64

IIS over HDMI (Non-standard HDMI interface): LVDS output level PCM: 32bit 44.1k-1536k DSD: 2.82M-90.3M (DSD64-DSD2048)

Other Parameters:

AC Power Supply: AC 115V/230V 50/60Hz

Power Consumption: <15W

Dimensions: 330mm x 260mm x 65mm

Weight: 4.8kg / 6.3kg with package

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 X30 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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