

# HUMBLEBEAR



## HUMBLE

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### QUICK START GUIDE

### 快速入门指南

#### USB AUDIO INTERFACE

ABYSS G22 ABYSS G24 ABYSS G44

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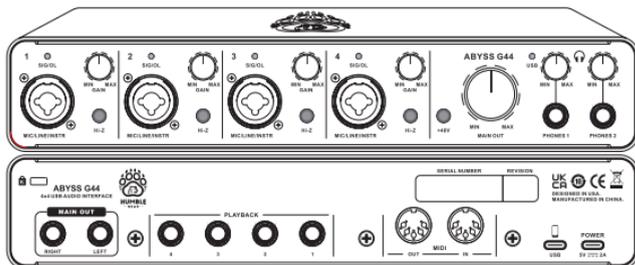
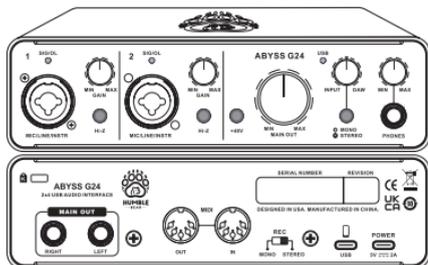
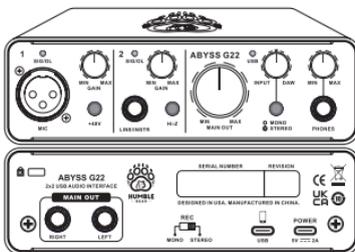
# ABYSS SERIES USB AUDIO INTERFACE

ABYSS G22 ABYSS G24 ABYSS G44

专业USB 带OTG功能的录音声卡

QUICK START GUIDE

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# **ABYSS SERIES USB AUDIO INTERFACE**

**ABYSS G22 ABYSS G24 ABYSS G44**

**Stream. Record. Create. HUMBLE ABYSS USB audio interface is a professional Record USB-C audio with powerful enhancements for studio-quality recordings and live streams.**

## **FEATURES:**

- **Mic pres with up to 60 dB of gain and ultra-low noise performance.**
- **24-Bit / 192 kHz USB-C audio interface Support ASIO and mobile OTG function.**
- **Mono/stereo monitor selection control.**
- **Mono/Stereo Recording Selector Switch Control.**
- **Independent INPUT/DAW monitoring control.**
- **Independent main output and PHONES output level control.**
- **Each channel has independent gain to control functions.**
- **Professional and high-quality input and output interfaces.**
- **The whole is made with high-quality leather technology.**

# ABYSS SERIES USB AUDIO INTERFACE

ABYSS G22 ABYSS G24 ABYSS G44

HUMBLE ABYSS USB 声卡

是一款专业的录音声卡(TYPE-C接口)，具备强大的增强功能，  
适合专业录音编辑、录音和直播。

## FEATURES:

- 麦克风前置放大器，增益最高可达60 dB，超低噪声性能；
- USB采样率最高位192KHz/24Bit，支持ASIO和手机OTG（注：由于手机本身版本和兼容性问题是不能使用）；
- 立体声/单声道监听选择功能；
- 立体声/单声道录音选择功能；
- 模拟/数字型号监听控制功能（ABYSS G44没有此功能）；
- 主输出/耳机输出带有独立的音量控制；
- 每个通道均有独立的增益控制功能；
- 高品质的专业输入输出接口；
- 表面采用高品质的皮套工艺制作；

# DIRECTORY

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## Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. when a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or beer glasses, shall be placed on the apparatus.
16. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. The MAINS plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable.
18. This device should be installed and operated with

minimum distance 20cm between the radiator & your body.

19. 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 interference to 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 the 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.

**CAUTION:** Changes or modifications to this device not expressly approved by HUMBLEBEAR AUDIO could void the user's authority to operate the equipment under FCC rules.

20. This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications. ATTENTION-Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.
21. Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the following chart. According to OSHA, any exposure in excess of these

permissible limits could result in some hearing loss. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels use hearing protectors while the equipment is in operation. Ear plugs or protectors in the ear canals or over the ears must be worn when operating the equipment in order to

prevent permanent hearing loss if exposure is in excess of the limits set forth here.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintaining (servicing) instructions in the literature accompanying the appliance.

**WARNING — To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.**

Duration, per day in hours	Sound Level dBA Slow Response	Typical Example
8	90	Duo in small club
6	92	
4	95	Subway Train
3	97	
2	100	Very loud classical music
1.5	102	
1	105	Screaming
0.5	110	
0.25 or less	115	Lowest parts at a rock concert



This apparatus has been designed with Class-I construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).



### CAUTION

**RISK OF ELECTRIC SHOCK! DO NOT OPEN!**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of significant magnitude to constitute a risk of electric shock to persons.



Correct disposal of this product: This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

## 重要安全说明

1. 请阅读本说明书。
2. 请妥善保管本说明书。
3. 请注意所有警告。
4. 请遵守所有操作说明。
5. 请勿在水源附近使用本设备。
6. 清洁时请仅使用干燥的软布。
7. 请勿阻塞任何通风口。请按照制造商的说明进行安装。
8. 请勿将设备安装在热源附近,例如暖气片、暖风出风口、炉具或其他会产生热量的设备(包括功率放大器)旁。
9. 请勿破坏极性插头或接地型插头的安全设计。极性插头的两片插片一片宽于另一片。接地型插头有两片插片和一个第三接地插脚。宽插片或第三插脚是出于安全考虑而设。如果提供的插头与您的插座不匹配,请咨询电工更换已过时的插座。
10. 请保护电源线,避免被人踩踏或挤压,特别是在插头、便捷插座以及电源线从设备引出的部位。
11. 请仅使用制造商指定的附件/配件。
12. 请仅使用制造商指定或随本设备一同出售的推车、支架、三脚架、托架或桌子。当使用推车时,移动设备和推车的组合体需小心,以防翻倒造成伤害。
13. 在雷雨天气或长期不使用时,请拔下本设备的电源插头。

14. 所有维修工作应交由具备资质的维修人员进行。当设备以任何方式受损时(例如电源线或插头损坏、液体泼洒或物体落入设备内、设备遭受雨淋或受潮、无法正常工作或曾坠落),均需要进行检修。
15. 本设备不应暴露于滴溅液体中,且切勿在本设备上放置装有液体的物品,例如花瓶或酒杯。
16. 请勿使墙壁插座和延长线过载,以免引发电击或火灾风险。
17. 电源插头或器具耦合器用作断开装置,因此该断开装置应保持易于操作。
18. 本设备安装和运行时,其散热部位与人的最小距离应保持在 **20 厘米**。
19. 注意:本设备经测试,符合美国联邦通信委员会[FCC]规则第15部分关于B类数字设备的限制规定。这些限制旨在为住宅安装环境提供合理的防有害干扰保护。  
本设备会产生、使用并可能辐射射频能量,如果未按照说明安装和使用,可能会对无线电通信造成有害干扰。然而,不能保证在特定安装中不会发生干扰。  
如果本设备确实对无线电或电视接收造成有害干扰(可通过开关设备来判定),建议用户尝试采取以下一种或多种措施消除干扰:
  - 调整或重新安置接收天线。
  - 增大设备与接收器之间的距离。
  - 将设备连接到与接收器所用电路不同的电源插座上。
  - 咨询经销商或经验丰富的无线电/电视技术人员寻

求帮助。

**警告:**未经 **HUMLEBEAR AUDIO** 明确批准的设备更改或改装,可能会导致用户根据 **FCC** 规则操作设备的授权失效。

20.本设备的无线电噪声发射不超过加拿大通信部无线电干扰条例规定的数字设备**A类/B类**以适用者为准]限值。注意一本数字设备不会产生超过加拿大通信部无线电干扰条例规定的**A类/8类**数字设备适用限值的无线电噪声。

21.高噪声暴露警告:暴露于极高的噪声水平可能导致永久性听力损伤。个体对噪声性听力损失的易感性差异很大,但几乎所有人在暴露于足够强度的噪

声一段时间后,都会丧失部分听力。美国职业安全与健康管理局(**OSHA**)已规定了如下所示的允许噪声暴露限值。性听力损伤。

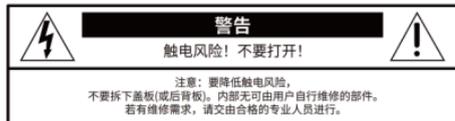
[注:此处通常附有 **OSHA** 噪声暴露限值表,翻译时保留其指示位置。]

根据 **OSHA**规定,任何超过这些允许限值的暴露都可能导致听力损失。为防止潜在的危险性高声压级暴露,建议所有暴露于能产生高声压级设备的人员在设备运行期间使用听力保护装置。当设备运行且暴露水平超过此处规定的限值时,必须佩戴耳塞或耳道/耳罩式保护器,以防永久

**警告:**为了减少火灾或电击风险,不要将设备暴露雨淋或湿气中



本设备设计采用 I 类结构,必须连接到带有保护性接地连接(即第三个接地脚)的电源插座上。



此等边三角形内带有箭头的闪电符号,旨在提醒用户:本产品外壳内部存在未绝缘的“危险电压”,其电压值可能达到足以对人体构成电击风险的显著程度。



此等边三角形内的感叹号旨在提醒用户,请查阅设备随附文件中有关重要操作与维护(维修)的说明。

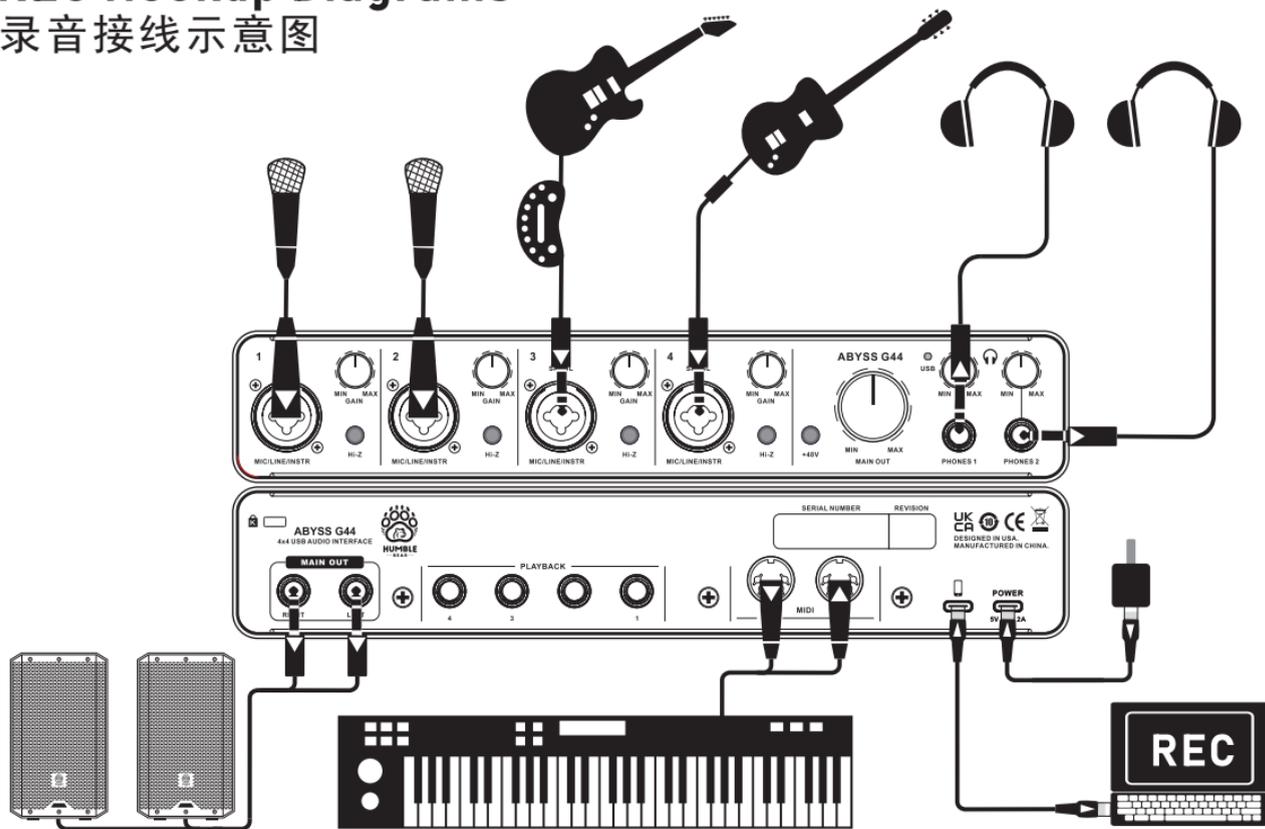


本产品的正确处置: 此符号表示,根据WEEE指导(2012/19/EU)和贵国法律,本产品不应作为生活垃圾处置。本产品应交给授权回收废旧电气和电子设备(EEE)的收集点。由于EEE通常含有潜在危险物质,此种类型的废物若处理不当可能会对环境和人类健康造成有害影响。同时,您在正确处置本产品方面的合作将有助于有效利用自然资源。关于将废旧设备送往何处进行回收的更多信息,请联系您当地的市政办公室、垃圾管理部门或家居废物处理服务商。

持续时间,以每天小时数表示	声压级dBA缓慢响应	典型示例
8	90	小俱乐部中二重奏
6	92	
4	95	地铁
3	97	
2	100	非常响亮的古典音乐
1.5	102	
1	105	尖叫
0.5	110	
0.25或更低	115	摇滚音乐会上最吵闹的部分

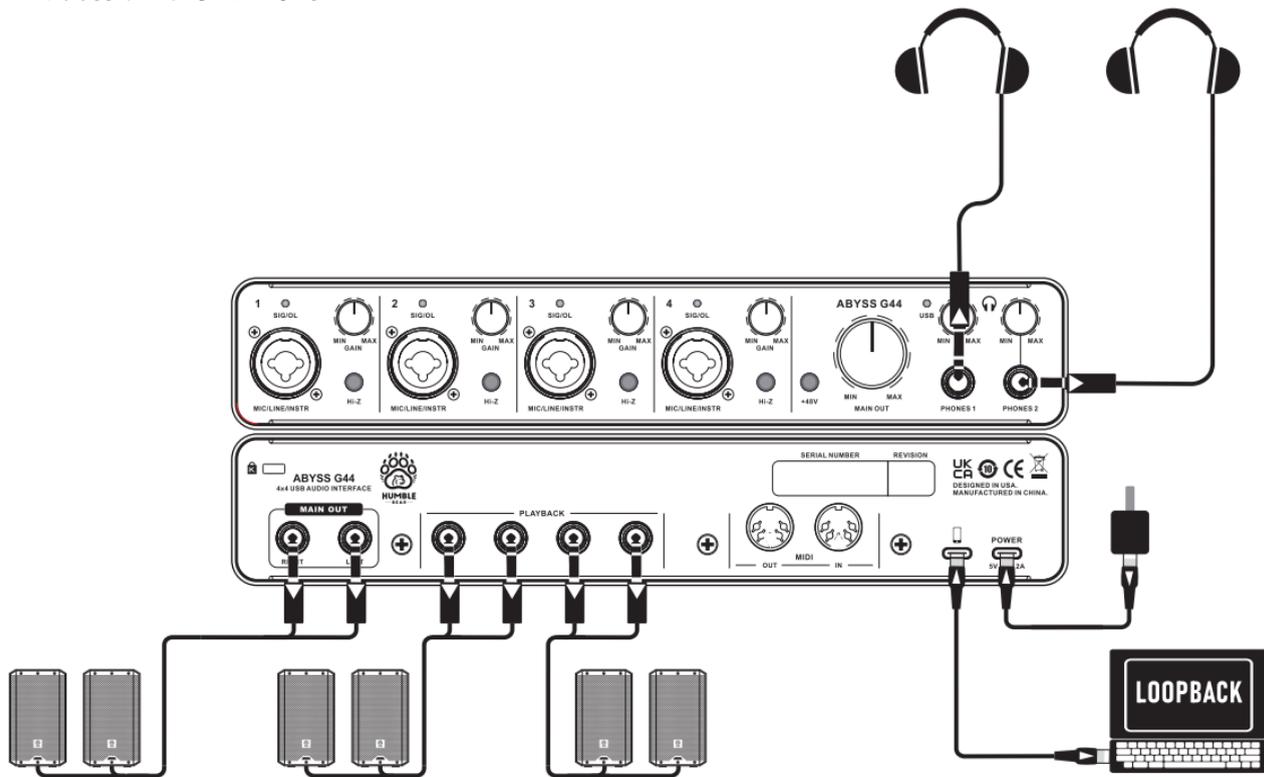
# REC Hookup Diagrams

录音接线示意图



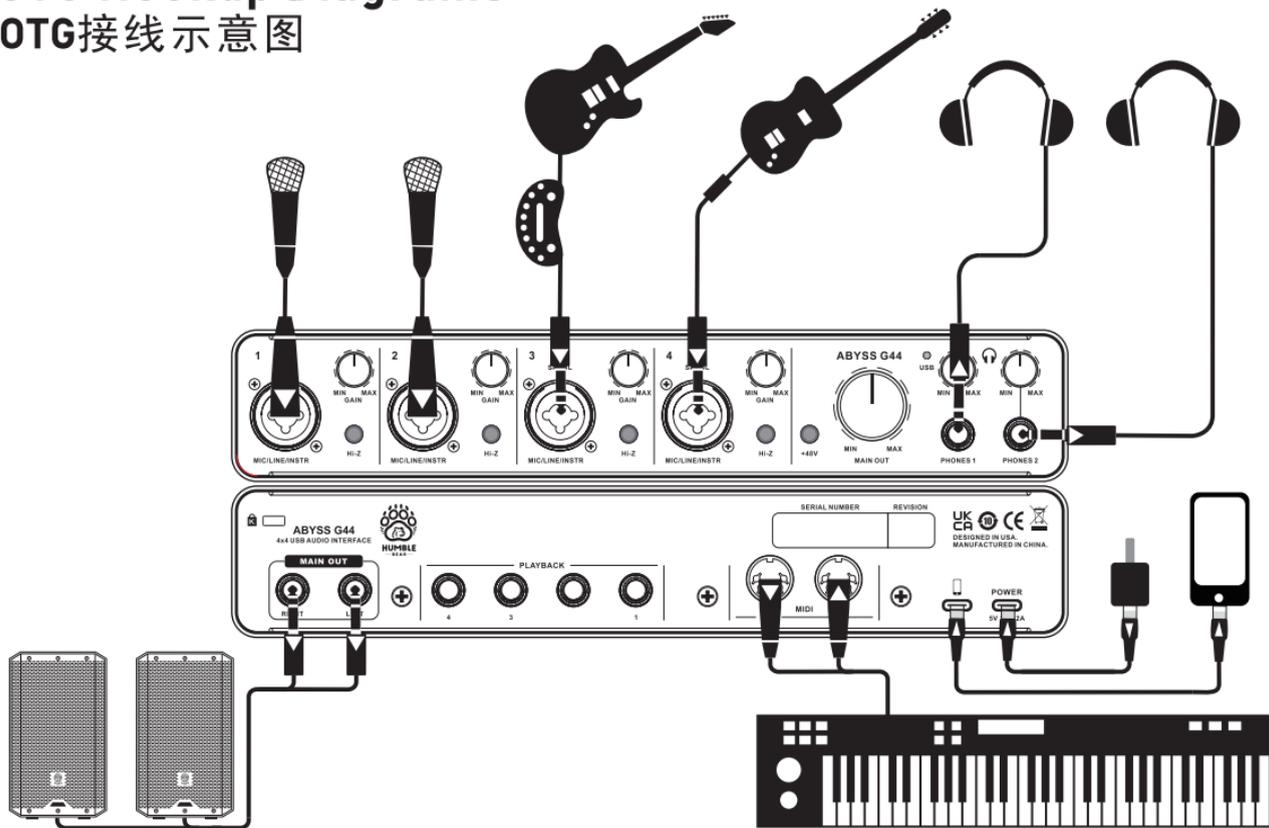
# Loopback Hookup Diagrams

## 回放接线示意图



# OTG Hookup Diagrams

## OTG接线示意图

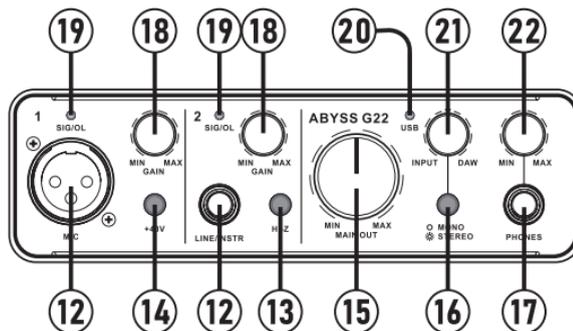


# ABYSS Front & Rear Panels

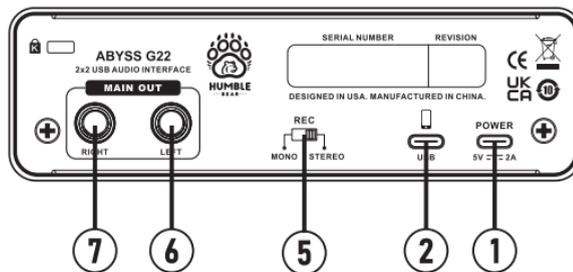
## ABYSS前后面板说明

### ABYSS G22

Front



Rear

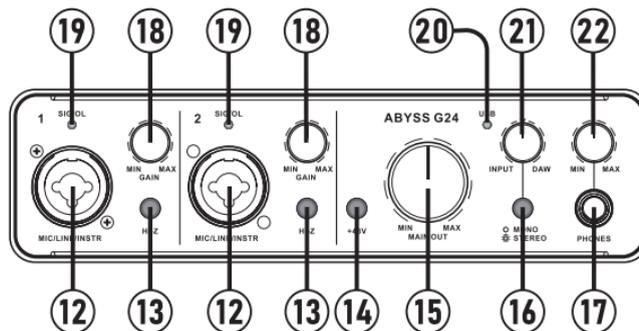


# ABYSS Front & Rear Panels

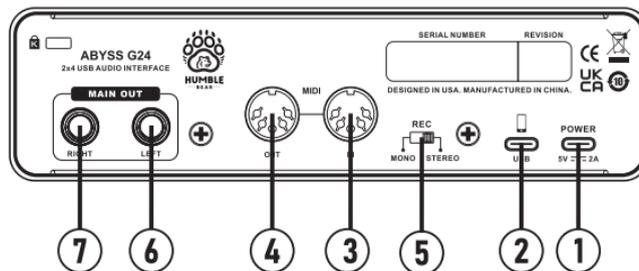
## ABYSS前后面板说明

### ABYSS G24

Front



Rear

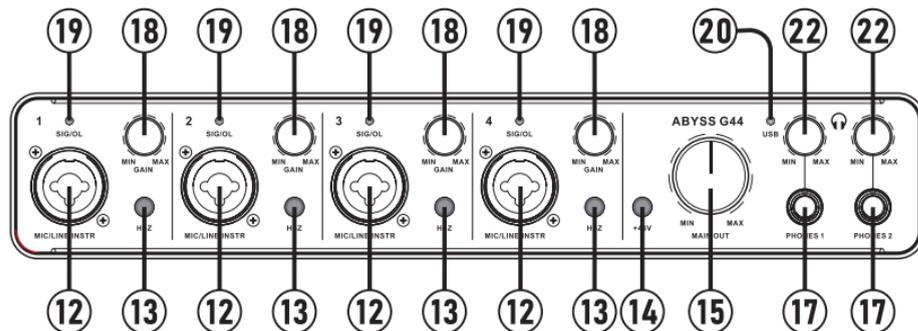


# ABYSS Front & Rear Panels

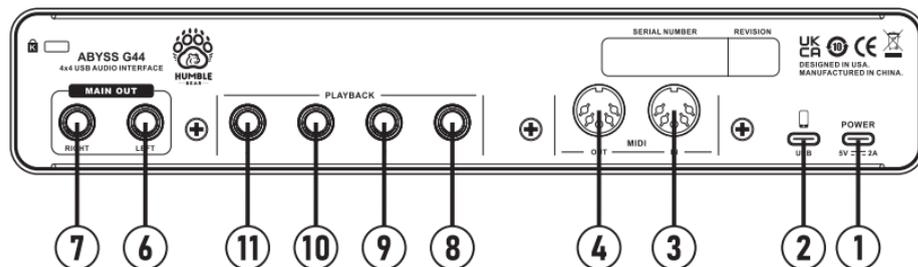
## ABYSS前后面板说明

### ABYSS G24

Front



Rear



## Front and Rear Panel Functional Descriptions

**1.Power Input Port (TYPE-C):** Power supply is DC 5V, 2A.

**2.USB Input/Output Port (TYPE-C):** Audio interface. Allows bidirectional audio transmission between the computer and this audio interface. Supports mobile phone OTG function.

The USB indicator light will stay solid when the USB data connection is successful; it will blink when the connection is being established. ABYSS G22 & ABYSS G24: 2 inputs / 2 outputs. ABYSS G44: 4 inputs / 4 outputs.

***Note:** Some mobile phones may experience connection issues due to compatibility \ problems with their own system and version.*

**3.MIDI IN Port:** MIDI audio interface. Allows audio transmission from MIDI-equipped instruments to the audio interface.

**4.MIDI OUT Port:** MIDI audio interface. Allows audio transmission from the audio interface to MIDI-equipped instruments.

**5.Recording Mode Selector Switch:** Based on your recording needs, use this switch to choose between stereo and mono recording modes.

**6.MAIN OUT Port (Left):** Uses a 6.35mm (1/4") mono connector to connect the main output's left channel signal to your power amplifier or active speakers.

**7.MAIN OUT Port (Right):** Uses a 6.35mm (1/4") mono connector to connect the main output's right channel signal to your power amplifier or active speakers.

**8.RETURN OUT Port (CH1):** Uses a 6.35mm (1/4") mono connector to connect the return output's CH1 channel signal to your power amplifier or active speakers.

- 9.RETURN OUT Port (CH2):** Uses a 6.35mm (1/4") mono connector to connect the return output's CH2 channel signal to your power amplifier or active speakers.
- 10.RETURN OUT Port (CH3):** Uses a 6.35mm (1/4") mono connector to connect the return output's CH3 channel signal to your power amplifier or active speakers.
- 11.RETURN OUT Port (CH4):** Uses a 6.35mm (1/4") mono connector to connect the return output's CH4 channel signal to your power amplifier or active speakers.
- 12.Analog Signal Input Ports:** Analog signals can be transmitted to the audio interface through these input ports.
- ABYSS G22:**CH1 channel supports microphone (XLR jack) and line input.  
CH2 channel supports high-impedance instrument and line input.
  - ABYSS G24:**CH1-2 channels support microphone (COMBO multi-function jack), high-impedance instrument, and line input.
  - ABYSS G44:**CH1-4 channels support microphone (COMBO multi-function jack), high-impedance instrument, and line input.
- 13.High-Impedance Toggle Switch (Hi-Z):** Switch to match different audio equipment impedance levels.
- 14.Phantom Power Toggle Switch (48V):** Turn this 48V phantom power ON when using a condenser microphone. Turn it OFF when not needed.
- 15.Main Output Level Control (MAIN OUT):** Adjusts the volume level of the main output to your requirement. (Controls both left and right channels).
- 16.Monitor Mode Toggle Switch:** Use this switch to choose between stereo and mono monitoring according to your needs.

**Note:** This feature is available on the ABYSS G22 & G24, but not on the ABYSS G44.

**17. Monitor Mode Toggle Switch:** Use this switch to choose between stereo and mono monitoring according to your needs.

**18. Headphone Output Port:** Connect your headphones (30-600 ohms impedance) using a 6.35mm (1/4") stereo connector.

**Note:** The ABYSS G44 has two independent headphone output ports.

**19. Gain Control Knob:** Adjusts the input gain level to your requirement. When adjusting the gain, it should be used in proper conjunction with the main volume and headphone output volume controls. Generally, avoid setting the gain too high, as this may cause distortion in the output signal.

**20. Gain Level Indicator:** The indicator lights show the gain status: **Green** indicates normal gain level. **Amber** (Orange) warns that the gain is high and the signal is approaching distortion. **Red** indicates that the signal level is too high and is already clipping/distorting. Reduce the input gain if the red light is on.

**21. USB Power Indicator Light:** When only the power supply is connected (without a USB data link), this light will **blink** (USB functions are not available in this state). When a USB data connection is successfully established, this light will remain **solid (ON)**.

**22. Headphone Output Level Control (PHONES):** Adjusts the volume level for the headphone output to your requirement.

**Note:** The ABYSS G44 has two independent headphone output level controls.

## 前面板和后面板功能说明

- 1, 电源输入接口[TYPE-C]: 供电为直流5伏2安培电流;
- 2, USB输入/输出接口[TYPE-C]: 音频接口,可通过计算机与这个声卡进行双向音频传输, 支持手机OTG功能, USB数据连接成功后, USB指示灯会常亮, 指示灯处于闪烁时, 数据为连接; ABYSS G22, ABYSS G24: 2进2出, ABYSS G44: 4进4出;

**备注: 部分手机OTG由于本身系统和版本的兼容性问题, 可能会出现连接异常!**

- 3, MIDI输入接口: MIDI音频接口,可通过带MIDI的乐器与声卡进行音频传输;
- 4, MIDI输出接口: MIDI音频接口,可通过带MIDI的乐器与声卡进行音频传输;
- 5, 录音模式选择开关: 根据您的录音需求, 可以通过这个开关进行立体声和单声道录音选择;
- 6, 主输出接口[左]: 采用6.35mm的单声道接头将主输出的左声道信号连接到您的功放或有源音箱;
- 7, 主输出接口[右]: 采用6.35mm的单声道接头将主输出的右声道信号连接到您的功放或有源音箱;
- 8, 回路输出接口[CH1]: 采用6.35mm的单声道接头将回路输出的CH1通道信号连接到您的功放或有源音箱;
- 9, 回路输出接口[CH2]: 采用6.35mm的单声道接头将回路输出的CH2通道信号连接到您的功放或有源音箱;
- 10, 回路输出接口[CH3]: 采用6.35mm的单声道接头将回路输出的CH3通道信号连接到您的功放或有源音箱;
- 11, 回路输出接口[CH4]: 采用6.35mm的单声道接头将回路输出的CH4通道信号连接到您的功放或有源音箱;
- 12, 模拟信号输入接口: 模拟信号可以通过这个输入与声卡进行音频传输;  
ABYSS G22: CH1通道为麦克风 (XLR 卡侬接口) 和线路输入方式;  
CH2通道为高阻抗的乐器和线路输入方式;  
ABYSS G24: CH1-2通道为麦克风 (COMP多功能接口)、高阻抗的乐器和线路输入方式;  
ABYSS G44: CH1-4通道为麦克风 (COMP多功能接口)、高阻抗的乐器和线路输入方式;
- 13, 高阻抗切换开关[Hi-z]: 根据您的音频设备的阻抗不同进行匹配切换;
- 14, 幻象电源切换开关[48V]: 当你使用的麦克风为电容式麦克风时, 需打开这个幻象电源[48V], 不需要时

请关闭这个电源；

- 15, **主输出电平控制[MAIN OUT]:** 根据您的主输出音量大小需求进行左右调节控制；
- 16, **监听模式切换开关:** 根据您的监听需求，可以通过这个开关进行立体声和单声道选择；  
**ABYSS G22/24:** 有这个功能， **ABYSS G244:** 无此功能；
- 17, **监听模式切换开关:** 根据您的监听需求，可以通过这个开关进行立体声和单声道选择；
- 18, **耳机输出接口:** 采用**6.35mm**的立体声接头将耳机出信号连接到您的耳机**[30-600欧姆的耳机]**；  
**[ABYSS G44]**有二组耳机输出接口；
- 19, **增益控制旋钮:** 根据您的输出音量大小需求进行左右调节控制，调节增益大小时，需与主音量和耳机输出音量控制适当配合使用，一般增益不要调制过大，否则会导致输出失真；
- 20, **增益大小指示灯:** 增益正常指示灯显示未绿色，当开始出现橙色时，提示您当前增益过大，信号处于临界失真状态，当只是灯显示未红色时，提示您当前信号过大**[已经处于失真状态]**，请调小您的输入增益；
- 21, **USB/电源只是灯:** 当单独接通电源时，此灯会处于闪烁状态（此时是不能使用**USB**功能），当**USB**数据接通后，此灯会处于常亮状态；
- 22, **主输出电平控制[PHONES]:** 根据您的耳机输出音量大小需求进行左右调节控制；  
**[ABYSS G44]**有二组耳机输出接口；

# Technical Specifications

## 技术规格

Main parameters 主要参数	ABYSS G22	ABYSS G24	ABYSS G44
Operating voltage 工作电压	TYPE-C DC5V/2000mA		
USB I/O USB 音频接口	TYPE-C 24-Bit / 192 kHz,ASIO,OTG,Windows,AIOS		
Frequency response 频率响应	20Hz-20KHz±3dB		
MIC sensitivity [1KHZ,THD=1%] 麦克风输入灵敏度	MAIN OUT-45dBu±3dB		
LINE in sensitivity 线路输入灵敏度	[1KHZ,THD=1%]: -25dB±3dB		
THD 总谐波失真	< 0.02%		

MAIN PARAMETERS 主要参数	ABYSS G22	ABYSS G24	ABYSS G44
S/N 信噪比	< -90dBu @A-wt		
Crosstalk [1KHZ,THD=1%] 串扰	-55dBu		
FFT [All are set to midpoint] 底噪	-100dBu		
Phantom Power 麦克风幻象电源	47V±2V		
Dynamic range 动态范围	≥ 90dBu		
THD 总谐波失真	≤ 0.02%		
Size (H x W x D) 尺寸：高x宽x深	52x156x109 mm 2.05x6.14x4.29 in	56x185x114 mm 2.21x7.28x4.49in	52x156x109 mm 52x156x109 in
Weight 重量	1.0 KG 2.21 lds	1.2 KG 2.65 lds	1.2 KG 2.65 lds



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