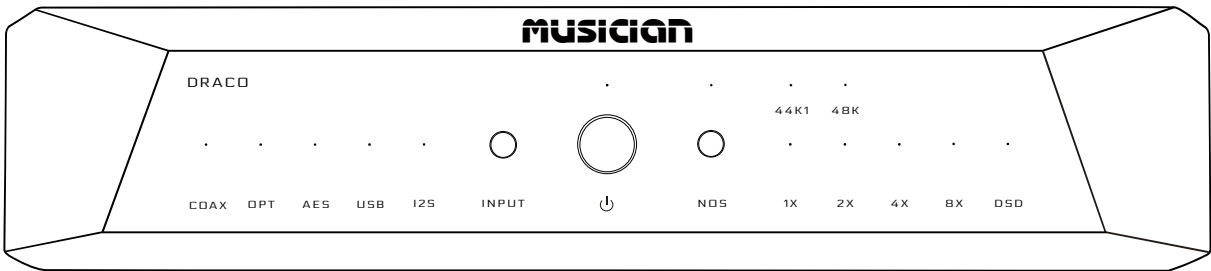




# DRACO R2R DAC



**User's Manual** | Email: [info@musician-audio.com](mailto:info@musician-audio.com)  
Official website: <http://www.musician-audio.com>

# Introduction

## Thank you for choosing MUSICIAN products!

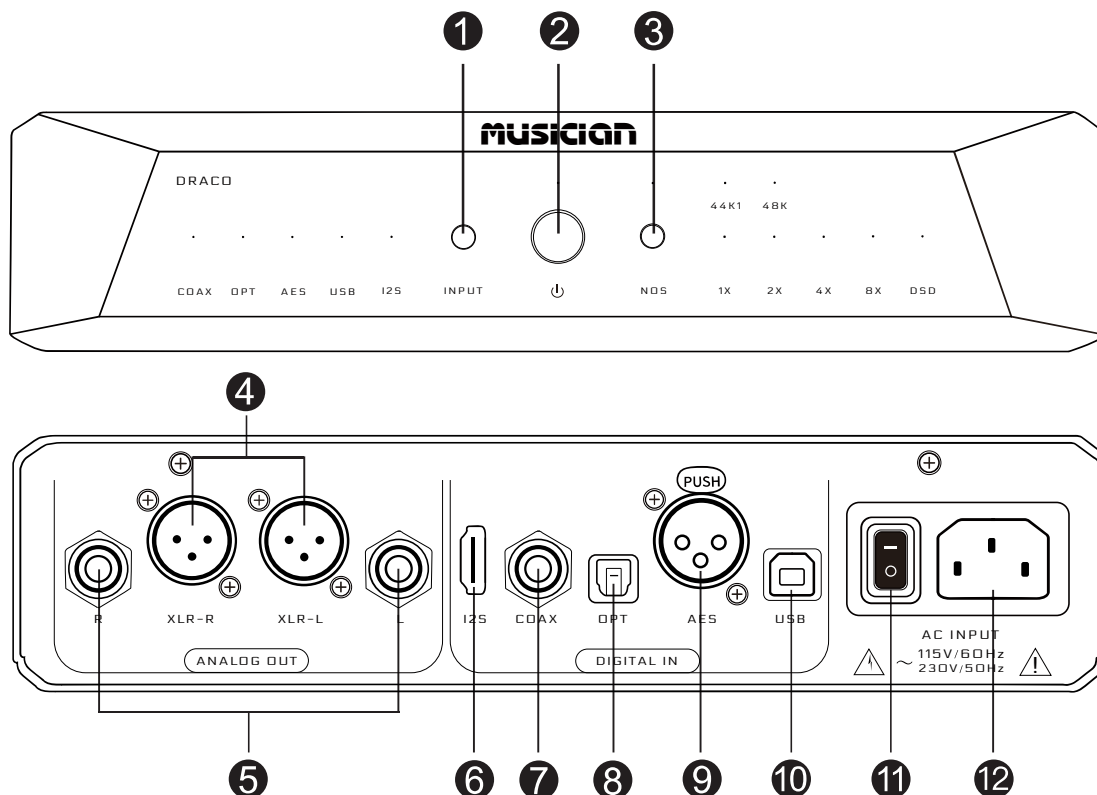
Guangzhou LEZHJIA Technology Co.,Ltd.(MUSICIAN Audio) was formally established in 2020. The R & D team is formed by a group of enthusiasts with more than 20 years of audio research and development experience. It is committed to the following product: R2R discrete balanced decoders, balanced headphone amplifiers, balanced amplifiers, balanced pre-amplifiers, headphones, passive speakers, and other audio products.

### \*Tips

- Do not cover newspapers, tablecloths, curtains, etc. on the machine, as this may prevent heat dissipation. If the temperature inside the machine is too high, it may cause a fire, damage the machine, or cause personal injury. When using switches, knobs or cables, do not use excessive force.
- Only use the voltage specified by this machine. Using a voltage higher than the specified value is dangerous and may cause fire, damage to the unit, or personal injury.
- Do not attempt to modify or repair this unit by yourself. If you need any service, please contact the MUSICIAN after-sales team through the official website.
- If you plan not to use the machine for a long time, disconnect the power cord from the AC wall outlet. To strengthen the protection of this product, unplug the power cord from the wall outlet during lightning, or when no one is managing it, and when not using it for a long time. This will prevent the product from being damaged during lightning and power grid surges.

## Front and rear panels

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- |                          |              |                 |
|--------------------------|--------------|-----------------|
| 1 Input Source Selection | 5 RCA Output | 9 AES Input     |
| 2 Switch/Standby         | 6 I2S Input  | 10 USB Input    |
| 3 NOS Button             | 7 COAX Input | 11 Power Switch |
| 4 XLR Balanced output    | 8 OPT Input  | 12 Power Input  |

## Product information

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### DRACO Features | R2R DAC

R2R Array DAC True Balance, R-2R network control decoding linear error, high decoding speed, low digital noise, not only to ensure low distortion of the audio signal, but also to ensure very low background noise music.

Self-Developed Technology, Using self-developed and designed digital filters, which can greatly increase dynamic contrast, analysis, and more natural and delicate timbre, etc.

Multiple ports and multiple options, Digital input has I2S, Coaxial, Optical, AES Balanced, USB. Analog output has a set of XLR balanced output and a set of RCA output.

Using the main control ALTERA high-efficiency chip, the audio signal transmission is not distorted

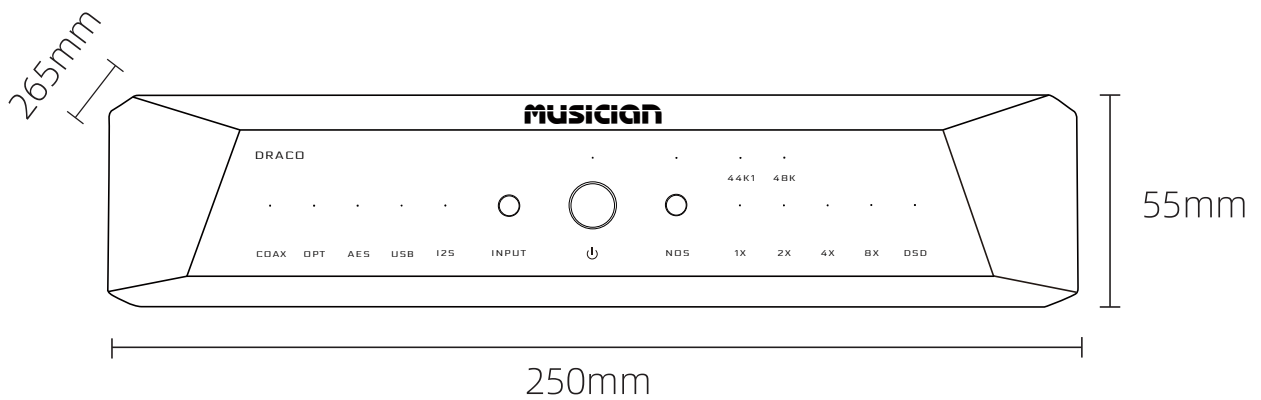
Packaged Linear Power Supply, ensure low noise and stable power supply voltage for the DAC.

### Machine aging

The burn-in time of Draco DACs is one week: Standby or Powered on 24/7 (300 hours), you will get the best performance after the enough aging hours.

Connecting RCA or XLR output simultaneously is not recommended, it will degrade the sound quality because they are shared. Even if the downstream equipment is on/off, the output signal will still be transmitted to the input stage of the downstream device.

If possible, please use the XLR output. As a true balanced DAC, the XLR output of Draco will be more superior.



### Basic Parameters

Function keys: Input source selection, Switch/Standby, NOS, Mute, Mode

Input mode: I2S, coaxial, optical fiber, AES, USB

Output mode: XLR, RCA

Power input: 115v–230v (50 / 60Hz)

Bare machine size: 250mm\*265mm\*55mm(W\*D\*H)

Bare metal weight: 3.6KG

Packing weight: 4.25KG

### Packing list

Aquarius \*1

AC Power Cable \*1



User'Manual \*1

Waranty card \*1

# Operating instructions

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## Power on and standby

Connect the power, turn on the DAC by short pressing the middle power button , the LED light is off at this time. If you press  again, the DAC will switch to standby mode and the LED lights up.

## Signal input selection

The left side of the front panel is the input mode selection, you can switch the input mode freely by pressing the INPUT button

Select COAXIAL as input, the LED above the corresponding COAX lights up;

Select OPTICAL as input, the LED above the corresponding OPT lights up;

Select AES as input, the LED above the corresponding AES lights up;

Select USB as input, the LED above the corresponding USB lights up;

Select I2S as input, the LED above the corresponding I2S lights up.

## NOS

NOS Indicator light off means oversampling; NOS Indicator light on means original sampling rate.

## Analog audio signal output

Two output modes: XLR balanced output and RCA output.

## Digital audio signal input


Five input methods: I2S, COAXIAL, OPTICAL, AES and USB.

## AC power input

AC power requirements: 115-230v (adjustable), 50 / 60Hz

## Drive installation

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1. Please visit the official website of MUSICIAN and download the  
( <http://www.musician-audio.com/en/col.jsp?id=105> )  
Download the DRACO driver: “ DRACO drive.Zip ”.
2. Connect the device with the computer by USB cable →  
turn on the device → short press “ Input ” to switch to  
the USB input mode.
3. Open the downloaded DRACO file → click setup to start  
the installation → continue to click “ Next ” → until the  
installation is complete and show “ Finish ”.
4. After installation , in the right corner of the computer →  
Click on the playback device  select “ MUSICIAN USB DAC ”  
the as the default device

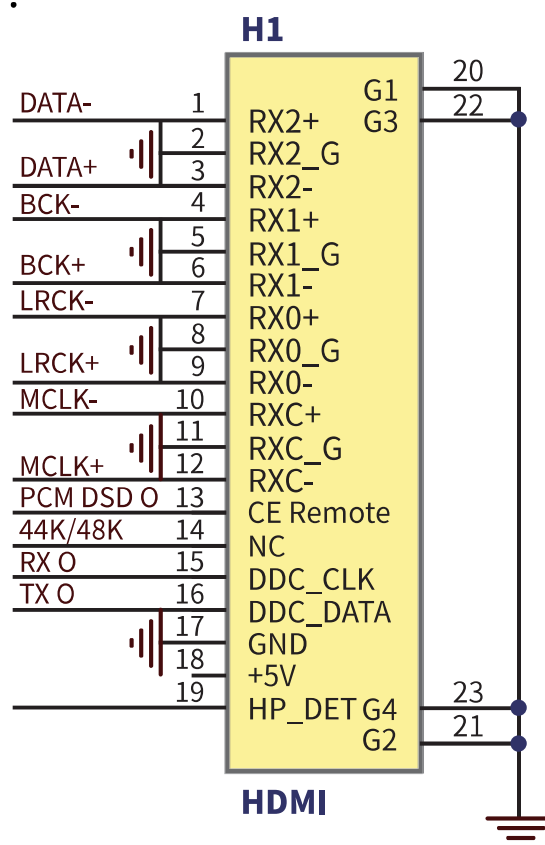
Drive installation finished

## I2S Pin Configuration of DRACO

**PS: There is no industry standard of I2S connection. Different brand/product has different I2S line order.**

MUSICIAN Draco is trying to compatible with most of device by the following mode setting method if you are using standard HDMI cable:

1. Select the sound source input to I2S;
2. Press the switch/standby button in the middle (the lights on);
3. Press NOS button, and the I2S lights on at the same time;
4. Press the switch/standby button in the middle again (the lights off);
5. Press the NOS button to cycle through the phase modes (there are total 8 modes, 1X, 2X, 4X indicator lights are binary mode Display);
6. Stop the operation when you selected the satisfied sound, the machine automatically exits the mode setting function



**Through the above I2S settings, Draco can basically meet most of the brands on the market.**

If it can not playing properly(such as hiss sound) by the above setting. This shall not be considered as a defective product, but just a matching failed. The suggested solution is to use a customized HDMI cable(The pin layout is on the right).



# Warranty

We take pride in the quality of our products with strict quality control checks. To give you more confidence, all of our products are provided with a three-years warranty. Within the first 30 days from the date of purchase, most items can be returned for refund or exchange if meet the following conditions. Wish you enjoy a wonderful shopping experience!

## RETURNABLE ITEMS

Items that can be returned/refunded or exchanged within 30 days of receipt must comply with the following standards

- 1.Any returned items must be accompanied by all accessories, hardware, manuals or instructions, and in the same "new" state as when shipped to you.
- 2.Any returned items will be evaluated after receipt. Of course, we will not refund any defective products caused by improper handling, improper use, tampering or improper use.
- 3.If there is no complete original packaging (original packing box, foam filling, etc.) at the time of return, 25% replenishment fee will be charged.

**Tips:** The items should be transported back safely. Before we received, You will take full responsibility. If you choose to replace, we will ship your replacement items free of charge.

## RETURN FEE AND ADDRESS

We aim to provide services that benefit all our loyal customers. Global customers can return products to our Chinese warehouse. Please always contact us before returning items to relevant addresses.

1. All transportation costs are borne by the customer. This includes shipping costs for returns or exchanges. Shipping costs are non-refundable.
2. Please contact your local post office to confirm the actual return shipping fee before shipping back. We recommend that you use the cheapest postal service if available.