

**HAKUshin ver1.1**  
**Built-in Virtual Ground, Phono Equalizer and 384-32 DAC**  
**PORTABLE AMP for VINYL and DIGITAL**  
**OPERATION MANUAL VER 1.01**

Thank you for choosing HAKUshin.



## Caution

**Please read this manual carefully to start using it.**

**Product design and parts are subject to change without notice.**

Turn down the volume before starting music playback. It may damage the ears and eardrums.

Do not play music at excessive volumes. It may damage the ears and eardrums.

Charge the battery for about 60 minutes before starting use. Use the charger for charging.

When connecting a computer, digital audio player, or smartphone to the DAC of this unit, use an OTG cable (sold separately). In the connection verification of this unit,

**ifi 90° TYPE C OTG Cable**

**I'm using a FiiO LT-LT2 (Lightning to USB Type-C OTG cable).**

When connected to a computer or smartphone, this unit is recognized as a DAC and cannot be charged.

If the battery is not sufficiently charged, noise may occur.

Noise may occur depending on the communication status and charging status of the smartphone.

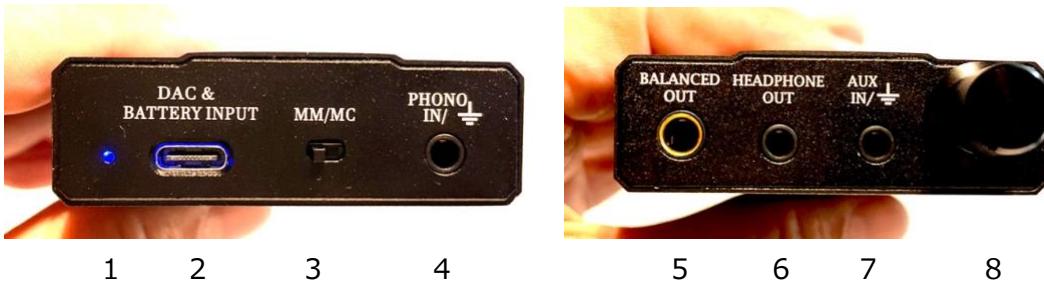
**THERE ARE DIGITAL AUDIO PLAYERS AND SMARTPHONES THAT DO NOT RECOGNIZE THE DAC.** At our company, we checked the connection of the digital music device and DAC inside of HAKU.

This is done from time to time and is described in this manual, but there is a possibility that the DAC will not be recognized due to OS updates, etc. In that case, please use AUX IN for play back.

## UNBOX

Included in the box is the HAKUshin main unit and the RCA stereo FEMALE to 3.5mm stereo cable. Please check it out.

## Names and usage of each part of the main unit



### 1. POWER AND POWER CHARGE INDICATOR

Turn the volume switch to the right to turn on the power and solid blue. When the battery is charged when the power is off, it is red, and when the volume switch is turned on while charging the battery, both lights up, but blue lights up strongly.

### 2. DAC & BATTERY INPUT

Use a USB-C OTG cable (purchase separately) to input digital music signals from your smartphone or Digital Audio Player. It also charges the internal battery from USB bus power. (The energy density of the built-in battery is It is 375wh/L. )

### 3. MM/MC (Cartridge Selector Switch)

When using HAKUshin's internal phono equalizer with PHONO input, the switch is toggled depending on whether the cartridge used for record playback is MM or MC. (This switch has no effect when using AUX IN.)

### 4. PHONO IN

It is used to connect a record player that does not have a phono equalizer in the main unit, such as the Technics SL-1200 mk3 (Note), to HAKUshin. The player must connect the ground cable and be sure to treat the ground (ground).

Note: Technics is a registered trademark of Panasonic Corporation.

### 5. BALANCED OUT

It is used to connect earphones and headphones with a 4.4mm 4-core balanced cable.

### 6. HEADPHONE OUT

It is used to connect earphones and headphones with a 3.5mm 3-core unbalanced cable.

### 7. AUX IN

It is used to connect a record player with a built-in phono preamplifier to HAKUshin. The virtual

ground inside HAKUshin may not be able to cope with the hum noise emitted during the PHONO OUT output of recent inexpensive record players. Please connect the record player VINshin to this AUX IN as well. Also, when a smartphone or DAP cannot recognize HAKUshin's DAC, Use a 3.5mm stereo jack cable to connect to AUX IN for playback. The sound is played through the virtual ground.

## 8. VOLUME

The power will turn off at 7 o'clock. The output is maximum at 5 o'clock. When the power is turned on, the INDICATOR lights up blue.

## Notes on Record Player Connections

1. Squeeze the VOLUME sufficiently before starting music playback. It can cause damage to the ears and eardrums.
2. If you have a record player that does not have a phono equalizer and can only output PHONO, connect it to PHONO IN. If you have a record player equipped with a phono equalizer and can output LINE, connect it to AUX IN.
3. MM MC switching is only available when connected to PHONO IN. When AUX IN is connected, HAKUshin's internal fo equalizer is used, so flipping the switch has no effect.

### 4. About ground noise canceling using HAKUshin

HAKUshin is equipped with a virtual ground. With HAKUshin, a female RCA stereo to stereo 3.5 mm cable with a ground terminal is included. The ground terminal can be used to reduce hum noise.

Securely connect the earth terminal of the included cable to the cable connected to the earth terminal of the record player using a screw and screwdriver. Connect the male RCA stereo on the player to the female terminals of the included cable.

L      R      GROUND



The virtual grounding of this included cable only works when the HAKUshin is switched on; hum noise may occur when the HAKUshin is switched off. Also, record playback when the battery is charging will reduce the level of hum noise reduction.

### Caution.

When the HAKUshin's HEADPHONE OUT is connected to an external speaker with built-in amplifier, ground noise will be generated when the HAKUshin is switched off because the HAKUshin has no pre-amplifier function. This noise disappears when the HAKUshin is switched on.

# Notes on Importing Digital Audio Sources to the USB-C DAC

## When connecting a smartphone or Digital Audio player (DAP) to HAKUshin's DAC

Be sure to turn off the power of HAKUshin before connecting. If you connect HAKUshin while the power is on, the DAC may not be recognized and music playback may not be possible.

1. When connecting a smartphone or Digital Audio player (DAP) to HAKUshin's DAC, purchase a USB-OTG (ON THE GO) cable that recognizes the smartphone or DAP as a HOST and connect it. If you use a USB cable that is not OTG, your smartphone or DAP may not recognize HAKUshin as an external USB device and you may not be able to play music with HAKUshin.

In the connection verification that we are doing,

### ifi 90° TYPE C OTG Cable

### I'm using a FiiO LT-LT2 (Lightning to USB Type-C OTG cable).

Validation data as of August 2024 can be found below.

If an Android or iOS update is performed, the HAKUshin smartphone or DAP may not be able to recognize the DAC.

If you connect multiple Lightning terminals to your smartphone, you may not be able to recognize HAKUshin's DAC on the smartphone side. At that time

Turn off HAKUshin 2. Reconnect the cables. 3. Try to turn on HAKUshin repeatedly. When recognizing the DAC of HAKUshin above, please reduce the volume. Noise and playback of music content may occur suddenly, which can hurt your ears. If your smartphone or DAP cannot recognize HAKUshin's DAC, use a 3.5mm stereo jack cable to connect to AUX IN for playback. Clear sound is played through the virtual ground.

2. When connected to a DAP, the following message "Do you want to allow access to REIYIN Audio DA-02?" **may appear on the DAP screen.** (The name of the DAC may change depending on the time of production.) In this case, you can try pressing Cancel first and start playing the song. In some cases, DAP recognizes HAKUshin's DAC "**REIYIN audio**" before such a message. If you press OK, you may not be able to hear music playback even if HAKUshin's DAC recognizes it.
3. Squeeze the VOLUME sufficiently before starting music playback. It can cause damage to the ears and eardrums.

## When connecting a computer to HAKUshin's DAC

IN THE AUDIO OUTPUT (FOR MAC SYSTEM SETTINGS > SOUND > OUTPUT, FOR WINDOWS START > SETTINGS > SYSTEM > SOUND > OUTPUT SETTINGS) REIYIN audio DA-02 (THE NAME OF THE DAC MAY CHANGE DEPENDING ON THE TIME OF PRODUCTION. ) in your selection. If the display does not appear, try turning on the HAKUshin switch.

# Product Specifications

95dB signal-to-noise ratio with virtual ground

Phono preamplifier with PHONO input. Connect to an old record player

AUX stereo input jack. Connects to a modern record player or smartphone with a preamplifier

2 Outputs: 3.5mm stereo jack 4.4mm 4-pole balanced terminal Connect to earphones or headphones.

MM/MC cartridge selector switch for all types of record cartridges.

324kHz, 32-bit USB-C DAC

Recommended headphone impedance: 16Ω 32Ω

Battery Specifications 7.4V, 800mAh, 5.92Wh, 375Wh/l

16Ω earphones check continuous playback for 10 hours at 10 o'clock at volume

Size WHD 58mm x 20mm x 100mm

Weight: 142g

RCA Stereo - 3.5mm Stereo Jack Included

**As of August 15, 2024**

[ifi 90° TYPE C OTG Cable](#)

The DAC connection device was detected using the Fiio LT-LT2 (Lightning to USB Type-C OTG cable)

**Music playback devices (excluding PCs)**

**Even if it is the same brand product, depending on the model number, Android or iOS version, and the cable to be connected**

**In some cases, it may not be recognized.**

**-iPhone 11,12,13,14,15 iOS17.6.1**

**-ASTELL & KERN**

**MAX ANTHRACITE GREY**

**A&NORMA SR35**

**KANN MAX**

**KANN ULTRA**

**A&FUTURA SE300**

**SP3000T**

**-FIO**

**M15S**

**M23**

**M11**

**M11S**

**M17**

**HIBY DIGITAL**

**M300**

**RS8**

**R6 PRO ii PURPLE**

**SONY**

**NW-A307**

**NW-WM1AM2**

**NW-WM1ZM2**

**NW-ZX707 C**

**LOTOO**

**PAW GOLD TOUCH**

**iBASSO AUDIO**

**DX180**

**CAYIN**

**N7**

**When inquiring about this product, you will need a receipt, e-mail, delivery note, etc. as proof of your purchase, so please keep it in a safe place.**

**Inquiries**

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