HIFIMAN

R2R2000

Owner's Guide

Welcome

Thank you for purchasing
the HIFIMAN R2R2000 HD Streaming Audio Device
HIFIMAN is a leading designer and manufacturer of high
performance audio products.
Please read this owner's guide to get a useful overview
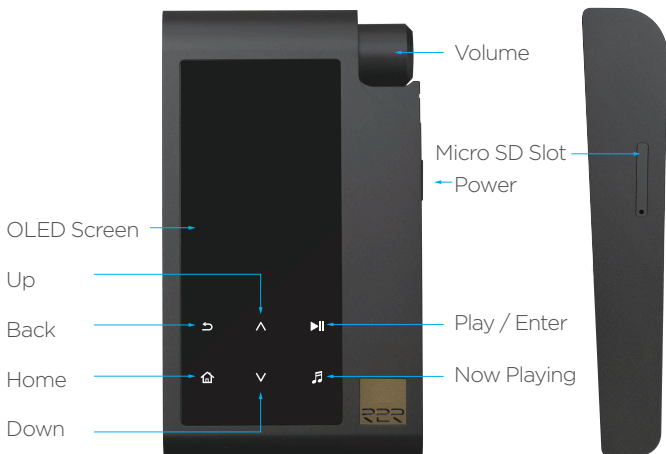of the player and its features.

Contents

Quick Guide

1. The R2R2000 supports a Micro SD card capacity of up to 256GB.

2. The Micro SD card slot on the side can be accessed by inserting a pin or paper clip into the small hole.

3. Connect a pair of headphones or earphones to the appropriate socket.

4. Turn on the R2R2000 and select "Rescan" to update the file content list.

5. To protect your hearing, the R2R2000 will power on with the volume set to 12 (The maximum volume is 32), you may then adjust the volume as desired.

Enjoy!

Overview

Volume

Micro SD Slot

Power

OLED Screen

Up

Back

Home

Down

Play / Enter

Now Playing

4.4mm   3.5mm

Headphone
Sockets

USB Type-C
Connector

Function Buttons

Power

1. Long press for 3 seconds to turn on / off the player.

2. Long press for 10 seconds to force restart the player.

3. Quick press once to lock the screen, again to unlock.

Volume

1. Rotate the volume clockwise to increase the volume up
   to a maximum of 32.

2. Rotate the volume anti-clockwise to decrease the
   volume down to a minimum of 0.

3. If the "Volume Tuner Lock" is on, the volume will be
   adjustable to a maximum of 25 when the player screen is
   turned off. It should be subject to the current volume if
   the volume is over 25 before the player screen is
   turned off.

4. If the "Volume Tuner Lock" is off, the volume will not be
   adjustable when the player screen is turned off.

Touch Sensitive Controls

↰ Back

Quick press, back to the previous menu.

⌂ Home

Quick press, return to the home menu.

∧ Up

1. View contents and folders, move to previous item.
2. In "Now Playing", long press to rewind.
3. In "Now Playing", quick press to play previous track if the current song is playing under 3 seconds.
4. In "Now Playing", quick press to return the current track to the beginning, quick press twice to play previous track if the current song is playing more than 3 seconds.
5. When using the HIFIMAN APP via Bluetooth mode, it has the same functionality as the "Now Playing" view.

Touch Sensitive Controls

∨ Down

1. View contents and folders, move to next item.
2. In "Now Playing", long press to fast forward.
3. In "Now Playing", quick press to play next track.
4. When using the HIFIMAN APP via Bluetooth mode, it has the same functionality as the "Now Playing" view.

Please note: Changing tracks is only in order during normal playback. In shuffle tracks, moving forward or backwards will be in a random order.

▶❚❚ Play / Enter

1. Play current music or make a selection.
2. In "Now Playing", quick press to Pause / Play.
3. When using the HIFIMAN APP via Bluetooth mode, quick press to Pause / Play.
4. In the Artist / Album / Genre / All songs menu, long press for 3 seconds to "Add / Exit Favorites Folder".
5. In the Favorites menu, long press for 3 seconds to "Empty the Favorites Folder / Exit".

♬ Now Playing

1. When music is playing but you are in other menu, it will provide instant access to the "Now Playing" view.
2. In "Now Playing", it can open the playback control interface (quick settings for Return / Repeat / Shuffle Playback / Gain setting / Sound choice / Output Mode).

Display Operations

Screen

Display content, mode and information etc.

Type-C Interface

1. Connect the Type-C USB cable to a computer to copy / delete files.
2. Connect the Type-C USB cable to a computer or 5V1A Power to charge.
3. Connect the Type-C USB cable to a computer or phone to enable the USB DAC function. Your phone must support the USB AUDIO and OTG function.

Please note: The default is USB charging only.

Headphone / Line-out Sockets

1. The 3.5mm and 4.4mm headphone sockets are designed to connect headphones with 3.5mm or 4.4mm plug.
2. The 3.5mm headphone socket supports balanced / normal output, TRRS or TRS plugs can be used and selected in "Headset Output".
3. The default mode of the 4.4mm headphone socket is balanced.
4. The 4.4mm headphone socket can be selected as line output in "Headset Output", however do not attach headphones while operating, it may cause damage the headphone or your hearing.
5. Can be connected to speakers or other compatible devices (additional purchase of cables is required).

4.4mm Balanced Line Output Wiring Specifications

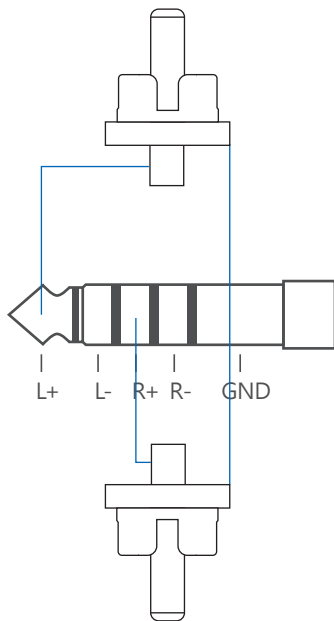4.4mm Balanced Plug schematic is as follows:
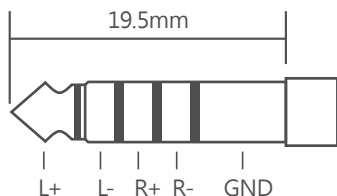
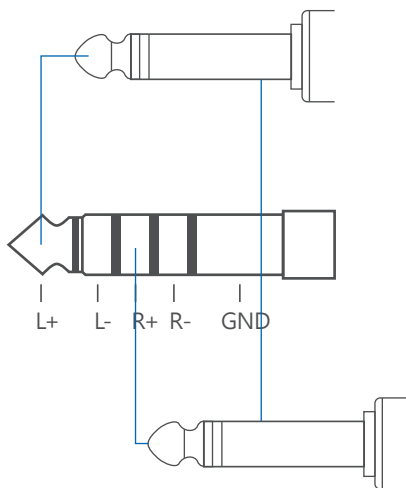For 4.4mm Balanced to dual XLR connections the balanced output should be as wired as follows:
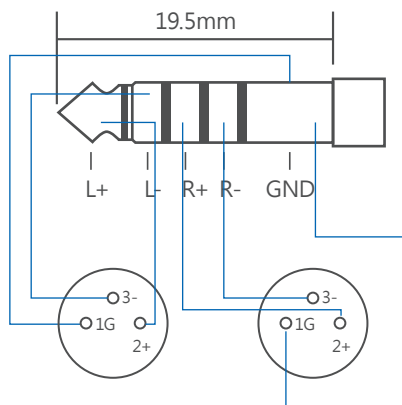
4.4mm Balanced Line Output Wiring Specifications

For 4.4mm Balanced to single-ended RCA connections should be as wired as follows:

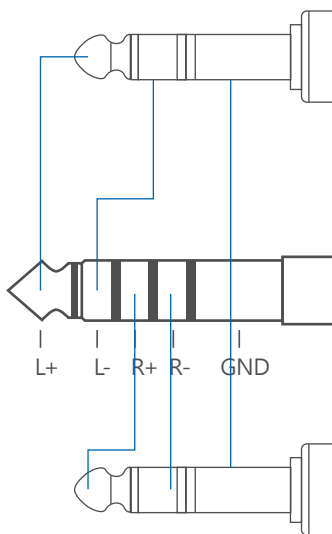|				
L+	L-	R+	R-	GND

4.4mm Balanced Line Output Wiring Specifications

For 4.4mm Balanced to dual mono 6.3mm connections should be as wired as follows:

4.4mm Balanced Line Output Wiring Specifications

For 4.4mm balanced to dual stereo 6.3mm connections should be as wired as follows:
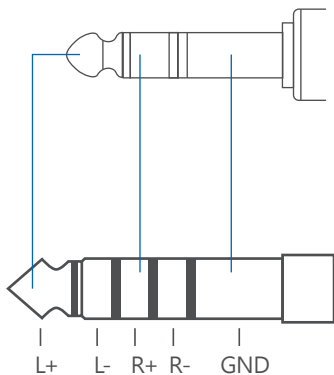

L+   L-   R+ R-   GND

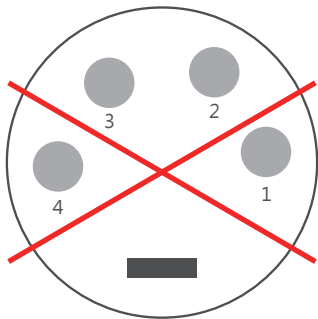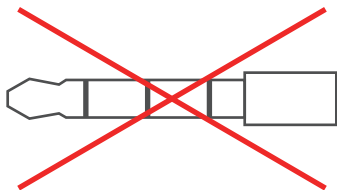# 4.4mm Balanced Line Output Wiring Specifications

For 4.4mm Balanced to single-ended 3.5mm connections should be as wired as follows:

L+   L-   R+ R-   GND

4.4mm Balanced Line Output Wiring Specifications

Please note:

Do not use an ungrounded connector as prolonged use

may casue damage or distortion to the R2R2000.

Set up

Sound Quality

1. Eco mode: Power consumption is reduced for longer battery life.
2. HiFi mode: High power consumption for the best possible sound quality, at the expense of shorter battery life.

Headset Output

1. Normal output mode: applies to headphones with 3.5mm plug.
2. Balanced output mode: applies to headphones with 3.5mm TRRS balanced or 4.4mm balanced plug.
3. Line output mode: 4.4mm Line output socket can be selected as line output in "Headset Output", however do not attach headphones while set as, it may cause damage to the headphone or your hearing.

High / Low Gain

1. High Gain: High power output for hard to drive or insensitive earphones or headphones. Interface displays: HiG.
2. Low Gain: Low power output for easy to drive or sensitive earphones. Interface displays: LoG.
3. Super Low Gain: A special mode only for when using the 4.4mm Balanced output for very high sensitivity and / or very low impedance IEM's. Interface displays: SLG

Set up

USB DAC

Connect the Type-C USB cable to a computer or phone to enable the USB DAC function. Your phone must support the USB AUDIO and OTG function. For iOS device, we recommend to connect to the Apple's official Lightning to USB Camera Converter (Lightning to USB3 Camera Converter, Type-C to Lighting cables can not be used. Please use the Apple's Type-C to Type-A adapter when it connects to MAC.)
Note: For iOS device, please activate USB DAC mode before connecting to the iOS device.
Insert the Lightning to USB Camera Converter to the iOS device, then insert the Type-A to Type-C cable.

Set up

Type-C

Type-A Type-A

Lightning
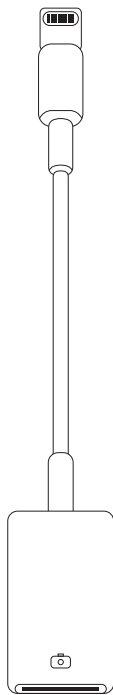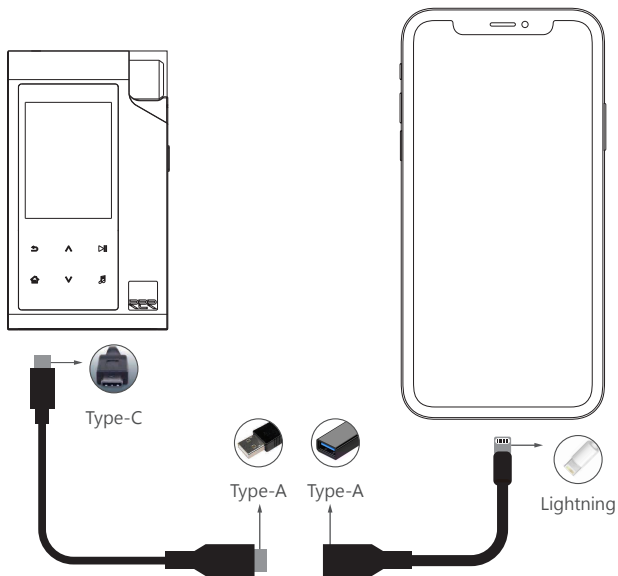
Set up

USB DAC Driver

This driver supports Windows XP and Windows 7-10 system.
 (No driver is needed for MAC operating system.)

Download and install the R2R2000 USB DAC Driver
1. Go to http://hifiman.com/services and select "R2R2000" under the "Driver" dropdown to down load the driver.
2. Unzip the file and choose the correct driver for your operating system. Double-click to install the driver.
3. Use a Type-C USB cable to connect your computer and the R2R2000.
4. Set the R2R2000 to USB DAC mode.
5. Open the sound control panel and select the R2R2000 as Default Device.
6. Your computer audio output will now come through your R2R2000.

Set up

Bluetooth Mode

1. It supports Hi-res Bluetooth audio up to 24 / 96kHz.
2. Standard Bluetooth SBC can also be used.
3. Connect a pair of headphone or earphone to the appropriate sockets.
4. Turn on the R2R2000 and select Bluetooth Mode to pair.
5. Once paired, you can stream on board music or Tidal using the HIFIMAN App.

(You can find the HIFIMAN App on the Google Play.)

https://play.google.com/store/apps/details?id=com.digifly.hifiman

Repeat

Sets the repeat mode to Off / All / One.

Shuffle

Turn On / Off the shuffle.

Set up

Volume Tuner Lock

1. If the "Volume Tuner Lock" is on, the volume will be adjustable to a maximum of 25 when the player screen is turned off. It should be subject to the current volume if the volume is over 25 before the player screen is turned off.
2. If the "Volume Tuner Lock" is off, the volume will not be adjustable when the player screen is turned off.

Auto Screen Lock

Sets the display time out if untouched.

Auto Power Off

Sets the power off time if untouched.

Format Micro SD card

This will format the Micro SD card, this will erase everything on the card. Please be sure your files are backed up elsewhere.

Vibrator

Turn On / Off the vibrator.

Set up

Language Settings

Simplified Chinese / Traditional Chinese / English / Japanese / French / German.

System Version

Check the serial number and firmware version etc.

Certification

This shows all certifications.

Reset settings

This will reset all settings.

Specifications

Dimensions: Height 97.4mm Width 56mm Depth (min) 13.1mm Depth (max) 18.8mm

Weight: 142g

Battery Life:

HiFi Mode: Up to 8 hours*

Eco Mode: Up to 35 hours*

*Please note, will vary depending on volume, file types and file complexity.

Frequency Response: 20Hz – 40kHz

TDH: 0.006%

S/N: 115±3dB

Card support: Up to 256GB

Supported Music Formats

	WAV	FLAC	ALAC	APE	AIFF (aif-f)	DFF	DSF
16bit 44.1kHz	√	√	√	√	√	-	-
16bit 48kHz	√	√	√	√	√	-	-
16bit 88.2kHz	√	√	√	√	√	-	-
16bit 96kHz	√	√	√	×	√	-	-
16bit 176.4kHz	√	√	√	×	√	-	-
16bit 192KHz	√	√	√	√	√	-	-
24bit 44.1kHz	√	√	√	√	×	-	-
24bit 48kHz	√	√	√	√	×	-	-
24bit 88.2kHz	√	√	√	√	×	-	-
24bit 96kHz	√	√	√	√	×	-	-
24bit 176.4kHz	√	√	√	×	×	-	-
24bit 192kHz	√	√	√	×	×	-	-
1bit 2.8MHz (DSD64)	-	-	-	-	-	√	√

Other Music Formats: MP3, OGG, AAC, WMA

At present, the player of the DSD File support to DSD64 (only DFF, DSF format).

Accessories

(1) Type-C USB cable

(1) Type-C OTG cable

(1) Warranty Card

Note: A Micro SD card is not included.

NB: Contents are advisory only and may be subject to change.

Safety Instructions

Warning

1. Do not expose the player to water or other solvents.

2. Do not expose the player to humid, dusty, smoky or
    other harsh environments.

3. A suitable operating temperature environment should
    be between -6℃ To 40℃. Storage should be at normal
    room temperature.

4. Do not use any chemicals or detergents to clean the
    player.

5. Do not use while driving or operating any motorized
    vehicle.

6. If you experience discomfort in your ears, please
    discontinue use and consult your audiologist.

Safety Instructions

Disposal and Recycling

The disposal of your player should be separated from household waste because the player contains electronic parts and battery. When your player reaches its end of life, please contact your local environmental department for disposal and recycling information or you could simply send it back to us. The battery will be removed and properly recycled.

European Union—Disposal information:

This symbol means that according to local laws and regulations your product should be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Consumers can be punished by penalty for inappropriate disposal of electronic device. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Warranty & Customer Service

HIFIMAN warrants this product to be free of defects in material or workmanship for a period of one year from the date of original retail purchase. If your product is found to be defective during the warranty period, HIFIMAN will, at its sole option, either repair the product or replace the product with a new or factory reconditioned or substantially equivalent model. This limited warranty does not apply to any defects attributable to damage beyond the reasonable control of HIFIMAN including damage caused by abuse, misuse, misapplication or modifications performed by anyone other than HIFIMAN.

If your product is under warranty and problem appears, please contact HIFIMAN customer service or your authorized dealer. If necessary, and at our discretion, we will provide a warranty repair or replacement of your product.

Caution: do not disassemble or modify the product in any way. Tampering with or modifying your HIFIMAN product will void its warranty.

Warranty & Customer Service

This Limited Warranty does not apply to :

1. Defective or discolored parts if the damages are caused by fluids, dirt, missing keys, broken plastic parts or improper use.
2. Damage caused by misuse with another product.
3. Use of the product for other than its normal intended use, including, without limitation, failure to use the product in accordance with the supplied "Owner's Guide".
4. Damage caused by accident, abuse, neglect or misuse.
5. If you do not have a valid dated receipt showing proof of purchase.
6. Damage caused by services/repairs or other modifications to the system carried out by anyone other than HIFIMAN or an authorized HIFIMAN distributor or dealer.
7. Damage caused by self-repair or if the unit has been disassembled or modified in any way.

HIFIMAN greatly desires your satisfaction and will do everything reasonable to achieve that. If you have any questions or concerns with your product, simply contact your authorized dealer or HIFIMAN directly (if purchased

Warranty & Customer Service

from us) and explain the issue in detail. Should a return be required, an RMA# will be issued. Return shipping to HIFIMAN or authorized service facility will be at the owner's expense.

The warranty applies to the first purchaser and is not transferable.

For any further information or questions, please contact your authorized HIFIMAN dealer, or email us directly at customerservice@HIFIMAN.com.

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HIFIMAN

Innovating the Art of Listening

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