HiBy HIBYR4

HiBy R4 HiFi Digital Audio Player User Manual

Model: HIBYR4
Brand: HiBy

1. Introduction and Overview

The HiBy R4 is a high-fidelity digital audio player (DAP) designed for exceptional sound quality and versatile media playback. Running on Android 12 with a powerful SD665 octa-core processor, it offers a smooth user experience for both local music files and streaming services. This manual provides essential information for setting up, operating, and maintaining your HiBy R4.



Figure 1: HiBy R4 Digital Audio Player (Green variant)

This image displays the HiBy R4 player from both the front and back. The front shows the screen interface with music playback, while the back highlights the model number and branding.

2. Product Features

- **High-Performance Processor:** Equipped with the SD665 octa-core processor and Android 12 for smooth operation.
- **Advanced Audio Architecture:** Features 4 DAC chips (ESS9018C2M*4), 2 dedicated low-phase noise crystals, and 28 high-precision Tantalum capacitors for enhanced audio resolution and dynamic range.
- **Class A Headphone Amplifier:** Integrated Class A amplifier ensures powerful output and clear musical details.
- **Hi-Res Audio Support:** Certified for Hi-Res Audio and Hi-Res Audio Wireless, supporting DSD 256 native, PCM 768kHz/32bit, and MQA 16X unfolding.
- **Dual Circuitry:** Pioneers PCM/DSD dual circuitry for optimized audio output based on music file type.
- **Connectivity:** Bluetooth 5.0 with two-way communication (UAT, LDAC, aptX, aptX HD, AAC, SBC codecs) and dual-band Wi-Fi (2.4GHz and 5GHz) for streaming and app downloads. Supports DLNA, AirPlay, and Wi-Fi song transfer.
- **Display and Design:** 4.7-inch high-definition LCD screen with a unique industrial design.
- **Memory:** 3GB RAM, 32GB ROM, expandable storage up to 2TB via Micro SD card.
- **Battery:** Large 4500mAh battery for extended usage.
- **Output Ports:** 3.5mm single-ended and 4.4mm balanced dual interfaces.
- **Physical Controls:** FN keys for quick access to functions like key lock and screen rotation.



Figure 2: Quad-chip HiFi DAC Array

This image illustrates the internal quad-chip HiFi DAC array, highlighting the ESS9018C2M chips responsible for high-quality audio processing.

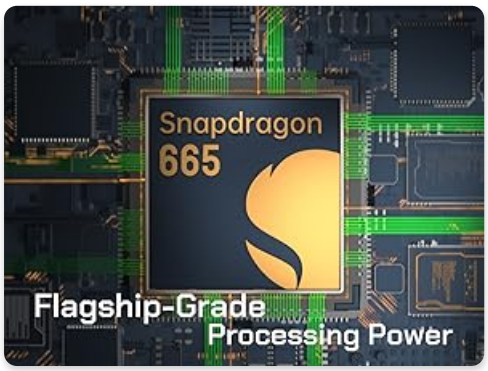


Figure 3: Open Android 12 System

The image shows the HiBy R4's screen displaying the Android 12 operating system interface, indicating its compatibility with various third-party applications.



Figure 4: Audio Output Ports

This image highlights the 3.5mm single-ended and 4.4mm balanced audio output ports on the HiBy R4, offering versatile headphone connectivity.

3. Setup

3.1. Initial Power On

1. Press and hold the Power button (located on the right side) until the HiBy logo appears on the screen.
2. Follow the on-screen prompts to complete the initial setup, including language selection and Wi-Fi connection.

3.2. Charging the Device

Connect the provided Type-C to Type-C charging cable to the USB-C port on the bottom of the HiBy R4 and to a compatible USB power adapter (not included). The device supports PD 2.0 fast charging.

3.3. Inserting a Micro SD Card

Locate the Micro SD card slot on the side of the device. Gently insert a Micro SD card (up to 2TB supported) until it clicks into place. The device will automatically detect the new storage.

4. Operating Instructions

4.1. Basic Navigation

- **Touchscreen:** Navigate through menus and apps by tapping, swiping, and pinching on the 4.7-inch LCD screen.
- **Physical Buttons:** Use the buttons on the right side for power, volume control, and track navigation (play/pause, next/previous). FN keys can be customized for quick access.

4.2. Connecting Headphones

- **3.5mm Single-Ended:** Plug your headphones into the 3.5mm port for standard audio output.
- **4.4mm Balanced:** For enhanced audio quality and power, connect compatible balanced headphones to the 4.4mm port.

4.3. Playing Music

- **Local Files:** Use the pre-installed HiBy Music app to browse and play music stored on the internal memory or Micro SD card.
- **Streaming Services:** Connect to Wi-Fi and download your preferred streaming apps (e.g., Spotify, Pandora, Amazon Music, Tidal) from the Google Play Store.

4.4. Bluetooth Connectivity

The HiBy R4 supports Bluetooth 5.0 for wireless audio. It can send audio to Bluetooth headphones/speakers and receive

audio from other devices. Navigate to Settings > Connected devices > Bluetooth to pair your devices.

4.5. Wi-Fi Functionality

Connect to a Wi-Fi network via Settings > Network & internet > Wi-Fi. This enables app downloads, online streaming, DLNA, AirPlay, and Wi-Fi song transfer.

Your browser does not support the video tag.

Video 1: HiBy R4 MP3 & MP4 Players Overview

This video provides a brief overview of the HiBy R4, showcasing its design and some key features in action.

5. Maintenance

5.1. Cleaning

Use a soft, dry cloth to clean the device. Avoid using harsh chemicals or abrasive materials that could damage the screen or chassis.

5.2. Software Updates

The HiBy R4 supports OTA (Over-The-Air) automatic firmware upgrades. Ensure your device is connected to Wi-Fi to receive and install updates for optimal performance and new features.

5.3. Battery Care

To prolong battery life, avoid fully discharging the device frequently. Store the device in a cool, dry place when not in use for extended periods. Use only the provided or certified charging cables.

6. Troubleshooting

- **Device not powering on:** Ensure the battery is charged. Connect to a power source and try again.
- **No sound output:** Check headphone connections, volume levels, and ensure the correct output is selected in audio settings.
- **Bluetooth connectivity issues:** Ensure Bluetooth is enabled on both devices and they are within range. Try unpairing and re-pairing the devices.
- **Wi-Fi connection problems:** Verify your Wi-Fi password and network stability. Restart the device and your router if necessary.
- **Device freezing/unresponsive:** Press and hold the Power button for approximately 10-15 seconds to force a restart.

7. Specifications

7.1. Hardware Specifications

Category	Item	Value
	Model	HiBy R4
	Operating System	Android 12
	SoC	Snapdragon 665

General

Category	Item	Value
	DAC	ESS9018C2M * 4
	Amplifier Components	OPA1652*4 & OPA1612*2
	Supported Audio Formats	DSD 256, PCM768kHz/32bit, MQA 16x Unfolding
Storage	RAM	3GB
	Internal Storage	32GB
	Expandable Memory	Up to 2TB (requires insertion of micro SD card)
Display	Size	4.7 Inches
	Type	IPS
	Resolution	720*1280
Connectivity	WiFi	Supports 2.4GHz / 5GHz
	Bluetooth	Bluetooth 5.0
Battery	Charge Capacity	4500mAh/3.8V
	Charge Time	Approx. 2 hours (via 20W PD charger)
	Charging Rate	20W
	Charging Protocol	PD 2.0
Physical	Chassis Material	Aluminium Alloy
	Outer Dimensions	129.6*68.3*18.5mm
	Weight	231g

7.2. Audio Specifications

Test Item	3.5PO (32Ω)	4.4BAL (32Ω)
Max Voltage Swing	2.3Vrms	4.1Vrms
Max Output Power	165mW	525mW
Nominal Output Power	165mW	525mW
Minimum THD	0.0007%	0.0005%
Dynamic Range	120dB	124dB
Noise floor	2.3uVrms	3.5uVrms
SNR	120dB	123dB
Channel Separation	71dB	111dB
Frequency Response	20Hz-80kHz	20Hz-80kHz

8. Package Contents

The HiBy R4 package includes the following items:

- R4 unit *1
- Type C to Type C charging cable (2.0) *1
- User manual *1
- Front screen protector *2 (1 pre-applied at factory)
- TPU case *1



Figure 5: HiBy R4 Package Contents

This image displays all the items included in the HiBy R4 product package, such as the player, cables, screen protectors, and case.

9. Warranty and Support

The HiBy R4 comes with a manufacturer's warranty. For detailed warranty information, product support, and service inquiries, please visit the official HiBy website: www.hiby.com.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question