

hayden HY-112

Hayden HY-112 UHF Wireless Microphone User Manual

Model: HY-112

1. INTRODUCTION

The Hayden HY-112 is a UHF wireless microphone system designed for clear and stable audio transmission. This system is suitable for various applications including karaoke, public speaking, events, and performances. It features a durable metal body, rechargeable batteries, and a wide operating range.

Please read this manual thoroughly before using the product to ensure proper operation and to maximize its lifespan.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 2 x Hayden HY-112 Microphones
- 1 x Wireless Receiver Adapter (6.35mm jack)
- 1 x USB Type-C Charging Cable
- 1 x 6.35mm to 3.5mm Adapter
- 2 x Anti-roll Rubber Rings
- 3 x 18650 Lithium Batteries (2 for microphones, 1 for receiver)



Image 2.1: All components included in the Hayden HY-112 UHF Wireless Microphone package. This includes two microphones, a wireless receiver, a charging cable, a 3.5mm adapter, anti-roll rings, and three 18650 batteries.

3. PRODUCT OVERVIEW

The Hayden HY-112 system consists of two handheld microphones and a compact wireless receiver. Each microphone features an LCD display for channel and battery status, and a power/set button. The receiver plugs directly into your audio device.



Image 3.1: Overview of the Hayden HY-112 wireless microphone system, highlighting its rechargeable Li-ion battery, Type-C charging, high sensitivity, wireless connectivity, and auto-pairing feature.

Microphone Features:

- **Dynamic Cardioid Pickup Pattern:** Captures vocals clearly while minimizing background noise.
- **UHF Frequency Range:** 645-681 MHz for stable transmission.
- **LCD Display:** Shows current channel and battery level.
- **Set Button:** For frequency matching and volume adjustment.
- **Metal Body:** Ensures durability and a comfortable grip.

Super Sound Quality

Superior Signal Stability

200ft Transmission Range

30 Adjustable Frequencies

INSTRUCTIONS:

PRESS AND HOLD THE SET BUTTON FOR 3 SECONDS:

- Display "Idon" means frequency matching mode
- Display "IdOF" means frequency lock mode
- Press the ◀ button to decrease volume
- Hold the ◀ button to increase frequency
- Press the ▶ button to increase volume
- Hold the ▶ button to decrease frequency

30
Sets

↓

Image 3.2: Detailed view of the microphone core, illustrating its unidirectional and dynamic characteristics, cardioid polar

pattern, frequency range, frequency response, transmission power, and intelligent automatic noise reduction.

4. SETUP INSTRUCTIONS

4.1. Battery Installation

1. Unscrew the bottom part of each microphone to access the battery compartment.
2. Insert one 18650 lithium battery into each microphone, ensuring correct polarity (+/-).
3. Unscrew the cap of the wireless receiver adapter.
4. Insert the remaining 18650 lithium battery into the receiver, ensuring correct polarity (+/-).
5. Securely reattach the bottom parts to the microphones and the cap to the receiver.



Image 4.1: Illustration of the 18650 lithium battery installation in both the microphone and the wireless receiver, along with the Type-C charging port on the receiver.

4.2. Connecting the Receiver

1. Identify the microphone input (usually labeled "MIC IN") on your audio device (e.g., karaoke machine, PA system, mixer, amplifier).
2. Plug the 6.35mm wireless receiver adapter directly into the "MIC IN" port.

3. If your audio device has a 3.5mm "MIC IN" port, attach the provided 6.35mm to 3.5mm adapter to the wireless receiver first, then plug it into the audio device.
4. Ensure the receiver is securely connected.

WIDE COMPATIBILITY

Suitable for all the devices with 6.35mm or 3.5mm interface



Karaoke machine



Mixer



PA System



Audio interface

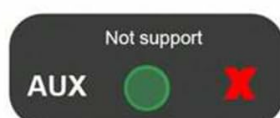


Powered speaker



Mobile Phone/Laptop

Connection Method



1/4" 6.35mm Receiver



1/8" 3.5mm Adapter



Image 4.2: Diagram showing the wide compatibility of the Hayden HY-112 with devices featuring 6.35mm or 3.5mm microphone interfaces, including karaoke machines, mixers, PA systems, audio interfaces, powered speakers, and mobile phones/laptops.

Your audio device must have "mic in" to use this mic



3.55mm
(can not use AUX)



6.55mm



Do not use system with the mini portable
bluetooth speakers like these



Image 4.3: Clarification that the audio device must have a dedicated "mic in" port (3.5mm or 6.35mm) to use this microphone, and it is not compatible with AUX inputs or mini portable Bluetooth speakers.

4.3. Powering On and Pairing

1. Press and hold the power button on each microphone until the LCD screen illuminates.
2. Turn on the wireless receiver. The indicator light on the receiver will show its status.
3. The microphones and receiver should automatically pair. If pairing does not occur, refer to the operating instructions for manual frequency matching.



Image 4.4: Close-up of the wireless receiver, emphasizing its plug-and-play design, 200ft range, and 50 available channels for easy setup and use.

5. OPERATING INSTRUCTIONS

5.1. Basic Operation

- Once paired, speak into the microphone. The audio will be transmitted wirelessly to your connected audio device.
- Adjust the volume on your audio device as needed.

5.2. Microphone Controls (SET Button)

The 'SET' button on the microphone allows for frequency matching and volume adjustments:

- **Press and hold the SET button for 3 seconds:**
 - Display "Idon" indicates frequency matching mode.
 - Display "IdOF" indicates frequency lock mode.
- **Press the ◀ button:** Decreases volume.
- **Hold the ◀ button:** Decreases frequency.

- **Press the ► button:** Increases volume.
- **Hold the ► button:** Increases frequency.

Note: The volume control buttons are located under the microphone's cover. You may need to unscrew the cover to access them during an event, which might not be practical for quick adjustments.

Super Sound Quality

200ft Transmission Range

Fully Rechargeable

30*2Adjustable Channet



Unidirectional and Dynamic Microphone Core

- Polar Pattern: Cardioid
- Frequency Range: 645-681 MHz
- Frequency Response: 40 Hz-15 kHz
- Transmission Power: 30 mW
- Microphone Capsule: X9
- Spectrum Radiation: < -50 dBc

Intelligent Automatic Noise Reduction





UNIDIRECTIONAL

FREQUENCY RESPONSE: 40HZ-15kHz

Image 5.1: Instructions for using the SET button on the microphone to adjust volume and frequency, and to enter frequency matching or lock modes. The microphone supports 30 adjustable frequencies.

6. CHARGING THE BATTERIES

The Hayden HY-112 system uses rechargeable 18650 lithium batteries for both microphones and the receiver.

- Connect the provided USB Type-C charging cable to the Type-C port on the wireless receiver.
- Connect the other end of the USB cable to a standard USB power adapter (not included) or a USB port on a computer.
- The receiver's indicator light will show charging status.
- To charge the microphone batteries, remove them from the microphones and place them in a compatible 18650 battery charger (not included), or charge them via the receiver if it supports pass-through charging (refer to receiver manual for details).
- Ensure batteries are fully charged before extended use for optimal performance.

7. TROUBLESHOOTING

Common Issues and Solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound output	Microphone/receiver not powered on; low battery; incorrect connection; unpaired.	Ensure all devices are powered on and charged. Check cable connections. Re-pair microphone and receiver. Verify audio device input is set correctly.
Interference/Static	Other wireless devices nearby; operating outside range; frequency conflict.	Move closer to the receiver. Change the microphone's operating frequency (refer to Section 5.2). Ensure no strong electromagnetic interference sources are nearby.
Short battery life	Batteries not fully charged; aging batteries.	Ensure batteries are fully charged before use. Consider replacing old 18650 batteries if performance degrades significantly.
Microphone volume too low/high	Microphone volume setting; audio device volume setting.	Adjust the volume using the microphone's SET buttons (Section 5.2). Adjust the volume on your connected audio device.

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the microphone body and receiver. Do not use liquid cleaners or solvents.
- **Storage:** Store the microphone system in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Care:** Always use the specified 18650 lithium batteries. Avoid overcharging or completely draining the batteries.
- **Handling:** Avoid dropping the microphones or subjecting them to strong impacts, as this can damage internal components.

9. SPECIFICATIONS

Feature	Specification
Model	HY-112 Dual Mic.
Microphone Form Factor	Handheld
Polar Pattern	Unidirectional (Cardioid)
Connectivity Technology	UHF Wireless
Frequency Range	645-681 MHz
Frequency Response	40 Hz-15 kHz
Number of Channels	50
Transmission Power	30 mW
Receiving Distance	≥50 meters (approx. 200ft)
Signal-to-Noise Ratio	>90 dB


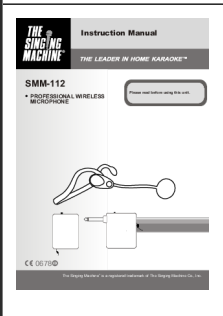
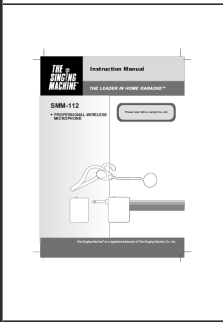
Feature	Specification
Power Source	Rechargeable 18650 Lithium Ion Battery (USB-C charging)
Material	Metal
Item Weight	1.5 kg (total package)
Operating Temperature	-10°C to 50°C
Compatible Devices	Karaoke Machine, PA System, Audio Mixer, Amplifier (with 6.35mm or 3.5mm MIC IN)




10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact the manufacturer directly.

- **Manufacturer:** Spectrum & Co.
- **Contact:** M- 9212347774

Related Documents - HY-112

	<p>Hayden Transmission & Engine Oil Coolers Technical Guide</p> <p>Explore Hayden's comprehensive technical guide for transmission, engine, and power steering oil coolers, including ECONO-KOOL®, MAXI-KOOL® XL, and Swirl Cool® models. Find detailed specifications, features, and application compatibility for a wide range of vehicles and heavy-duty uses.</p>
	<p>The Singing Machine SMM-112 Professional Wireless Microphone Instruction Manual</p> <p>Instruction manual for The Singing Machine SMM-112 Professional Wireless Microphone, covering setup, usage, maintenance, and troubleshooting for karaoke enthusiasts.</p>
	<p>The Singing Machine SMM-112 Professional Wireless Microphone - Instruction Manual</p> <p>Get detailed setup, usage, maintenance, and troubleshooting instructions for The Singing Machine SMM-112 Professional Wireless Microphone. Includes specifications and FCC compliance information.</p>

	<p><u>Innova Cellular USB-C Cable (CAB/1P) - Specifications, Warranty, and Safety Information</u></p> <p>Comprehensive guide to the Innova Cellular USB-C cable (CAB/1P), featuring its specifications, 3-year warranty terms, declaration of conformity, customer service contact details, and essential safety warnings. This pink USB-A to USB-C cable supports data transfer and a maximum current of 1.5A.</p>
	<p><u>Octo HY Pump Instruction Manual - Features, Specifications, and Troubleshooting</u></p> <p>Comprehensive instruction manual for Octo HY series pumps by HONYA CO., LTD. Covers overview, safety tips, assembly, package contents, detailed specifications, performance curves, maintenance, and troubleshooting for aquarium pumps.</p>
	<p><u>Vibe HY-PKRK Karaoke Wireless Microphone with Speaker - Operation Manual</u></p> <p>Official operation manual for the Vibe HY-PKRK Karaoke Wireless Microphone with Built-in Speaker. Learn about features, setup, charging, pairing, operation, specifications, safety, and warranty.</p>