IK Multimedia IP-IRIG-MICHD2-IN

IK Multimedia iRig Mic HD 2 Digital Microphone User Manual

Model: IP-IRIG-MICHD2-IN
Brand: IK Multimedia

1. INTRODUCTION

The IK Multimedia iRig Mic HD 2 is a high-definition handheld digital microphone designed for professional audio recording on various devices, including iPhone, iPad, Mac, and PC. It features high-quality 24-bit converters with sample rates up to 96kHz, a low-noise preamp, and a gold-sputtered electret condenser capsule. This manual provides essential information for setting up, operating, and maintaining your iRig Mic HD 2.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- iRig Mic HD 2 Digital Microphone
- Lightning iOS cable
- USB cable
- Compact table tripod
- Mic stand adapter
- 5/8" to 3/8" thread adapter
- Carrying pouch

3. KEY FEATURES

- **High-Definition Audio:** 24-bit converters with sample rates up to 96kHz for pristine sound quality.
- **Low Noise Preamp:** Ensures clear recordings with minimal background noise.
- **Gold-Sputtered Condenser Capsule:** High-quality cardioid electret condenser capsule for excellent transient accuracy and wide frequency response.
- **Integrated Headphone Output:** Dedicated headphone output with volume control for direct monitoring.
- **Onboard Gain Control:** Multi-color LED level indicator provides real-time feedback for optimal input levels.
- **Universal Compatibility:** Works with iPhone, iPad, Mac, and PC.
- **Portable Design:** Ergonomic handheld form factor suitable for various recording environments.

4. Product Overview

Figure 4.1: Front view of the iRig Mic HD 2, showing the microphone grille and branding.

Figure 4.2: The iRig Mic HD 2 showing the gain control knob, headphone volume knob, and LED indicator.

Figure 4.3: Side view of the iRig Mic HD 2 mounted on a stand, highlighting the headphone output and USB connection port at the base.

Figure 4.4: Close-up of the bottom of the iRig Mic HD 2, showing the micro-USB port for connection and the 3.5mm headphone jack.

5. SETUP GUIDE

5.1 Connecting to a Device

1. **For iOS Devices (iPhone/iPad):** Use the provided Lightning cable. Connect the micro-USB end to the iRig Mic HD 2 and the Lightning end to your iOS device.

2. **For Mac/PC:** Use the provided USB cable. Connect the micro-USB end to the iRig Mic HD 2 and the standard USB-A end to your computer's USB port.

5.2 Mounting the Microphone

- **Tabletop Use:** Attach the iRig Mic HD 2 to the compact table tripod using the mic stand adapter.
- **Standard Mic Stand:** Use the mic stand adapter and the 5/8" to 3/8" thread adapter (if necessary) to mount the microphone on a standard microphone stand.

Figure 5.1: The iRig Mic HD 2 mounted on a standard microphone stand, ready for use.

Figure 5.2: The iRig Mic HD 2 set up with its included tripod, connected to a smartphone, alongside headphones for monitoring.

5.3 Software Installation (Optional)

For optimal performance and additional features, consider installing IK Multimedia's dedicated audio recording applications (e.g., iRig Recorder, VocaLive) available for iOS, Mac, and PC. Refer to the IK Multimedia website for download and installation instructions.

6. OPERATING INSTRUCTIONS

6.1 Powering On

The iRig Mic HD 2 is bus-powered, meaning it draws power directly from the connected device (iPhone, iPad, Mac, or PC). Simply connect the microphone, and it will power on automatically.

6.2 Adjusting Input Gain

- Locate the gain control knob on the microphone body.
- Rotate the knob to adjust the input sensitivity.
- Observe the multi-color LED indicator:
    - **Blue:** Signal present, good level.
    - **Green:** Optimal signal level.
    - **Red:** Signal too hot (clipping). Reduce gain immediately to avoid distortion.
- Aim for a strong signal that primarily stays in the green, with occasional peaks into blue, and never red.

6.3 Monitoring Audio

- Connect your headphones to the 3.5mm headphone output jack at the base of the microphone.
- Use the dedicated headphone volume control knob to adjust your monitoring level.
- This allows for real-time, direct monitoring of your audio without latency.

6.4 Recording Best Practices

- **Microphone Placement:** Position the microphone appropriately for the sound source. For vocals, typically 6-12 inches from the mouth. For instruments, experiment with distance and angle to capture the desired tone.
- **Cardioid Pattern:** The iRig Mic HD 2 has a cardioid pickup pattern, meaning it primarily picks up sound from the front and rejects sound from the sides and rear. Point the front of the microphone (where the grille is) directly at the sound source.
- **Pop Filter:** While the microphone has an internal pop filter, using an external pop filter is recommended for vocal recordings to reduce plosive sounds (P, B).
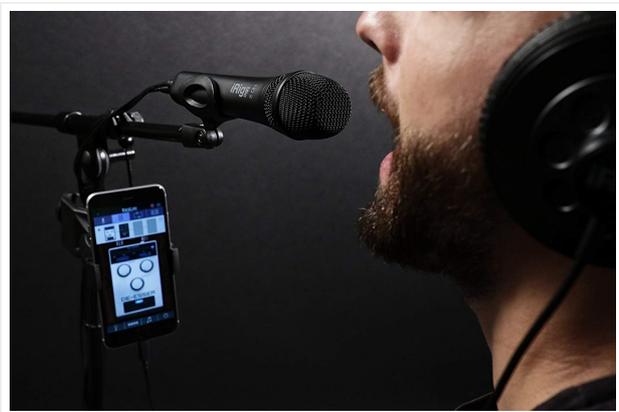- **Environment:** Record in a quiet environment to minimize background noise.

Figure 6.1: A user recording vocals with the iRig Mic HD 2, connected to a smartphone displaying a recording application.

Figure 6.2: The iRig Mic HD 2 positioned to record an acoustic

guitar, demonstrating its versatility for instrument recording.

Figure 6.3: A complete recording setup with the iRig Mic HD 2 capturing acoustic guitar, and a smartphone on a tripod for video or audio recording.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the microphone body. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the iRig Mic HD 2 in its provided carrying pouch to protect it from dust and physical damage.
- **Handling:** Avoid dropping the microphone or subjecting it to strong impacts, as this can damage the internal components.
- **Environment:** Keep the microphone away from extreme temperatures, humidity, and direct sunlight.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from microphone.	- Incorrect cable connection. - Gain too low. - Microphone not selected as input device. - App permissions.	- Ensure cables are securely connected. - Increase the gain using the knob on the microphone. - Check your device's audio settings (Sound Preferences on Mac/PC, app settings on iOS) and select iRig Mic HD 2 as the input. - Ensure the recording app has microphone access permissions.
Distorted or clipping audio.	- Gain too high. - Sound source too loud/close.	- Decrease the gain using the knob on the microphone until the LED is green/blue. - Increase distance from sound source or reduce source volume.
No headphone monitoring.	- Headphone volume too low. - Headphones not fully plugged in.	- Increase the headphone volume using the dedicated knob. - Ensure headphones are securely plugged into the 3.5mm jack.

9. SPECIFICATIONS

Feature	Detail
Microphone Type	Digital Condenser Microphone
Capsule Type	Gold-sputtered electret condenser
Polar Pattern	Cardioid
A/D Conversion	24-bit
Sample Rate	Up to 96 kHz
Frequency Response	20 Hz - 20 kHz
Headphone Output	3.5mm TRS jack with volume control
Connectivity	Micro-USB port (for Lightning and USB cables)
Dimensions	4.83 x 4.83 x 18.8 cm
Weight	322.05 g
Power	Bus powered by connected device
Included Accessories	Lightning iOS cable, USB cable, table tripod, mic stand adapter, 5/8" to 3/8" thread adapter, carrying pouch

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official IK Multimedia website or contact their customer service directly. Keep your proof of purchase for warranty claims.

- **Manufacturer:** IK Multimedia
- **Website:** www.ikmultimedia.com

Extended warranty options may be available from third-party providers. Please check with your retailer for details.