iRig Mic Cast HD

Dual-sided digital voice microphone

USER MANUAL

Contents
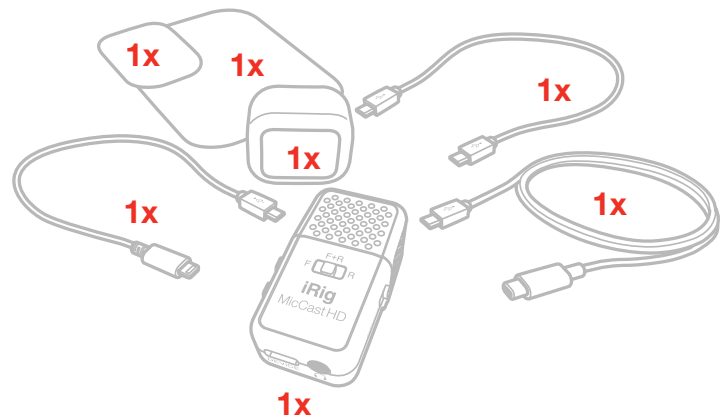
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iRig Mic Cast HD

Thank you for purchasing iRig Mic Cast HD.

Your package contains:

- iRig Mic Cast HD
- Lightning cable
- USB-C cable
- OTG cable
- Wind Shield
- Metal plates

iRig Mic Cast HD is the new ultra-compact, MFi, portable voice recording microphone designed specifically for recording podcasts, interviews, lectures, voice memos, speeches and more.

iRig Mic Cast HD provides a pocket-sized voice recording solution with crystal-clear audio quality thanks to 24-bit converters with sample rates up to 96kHz. It features two high quality, gold-sputtered electret condenser capsules that can be combined together, making it ideal for single or dual-source audio recording.
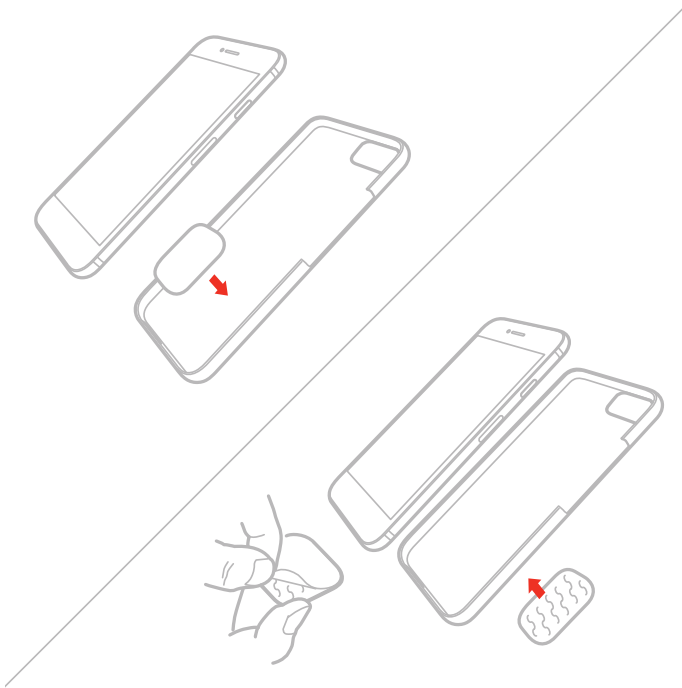
Register your iRig Mic Cast HD

By registering, you can access technical support, activate your warranty and receive free JamPoints™ which will be added to your account. JamPoints™ allow you to obtain discounts on future IK purchases! Registering also keeps you informed of all the latest software updates and IK products.
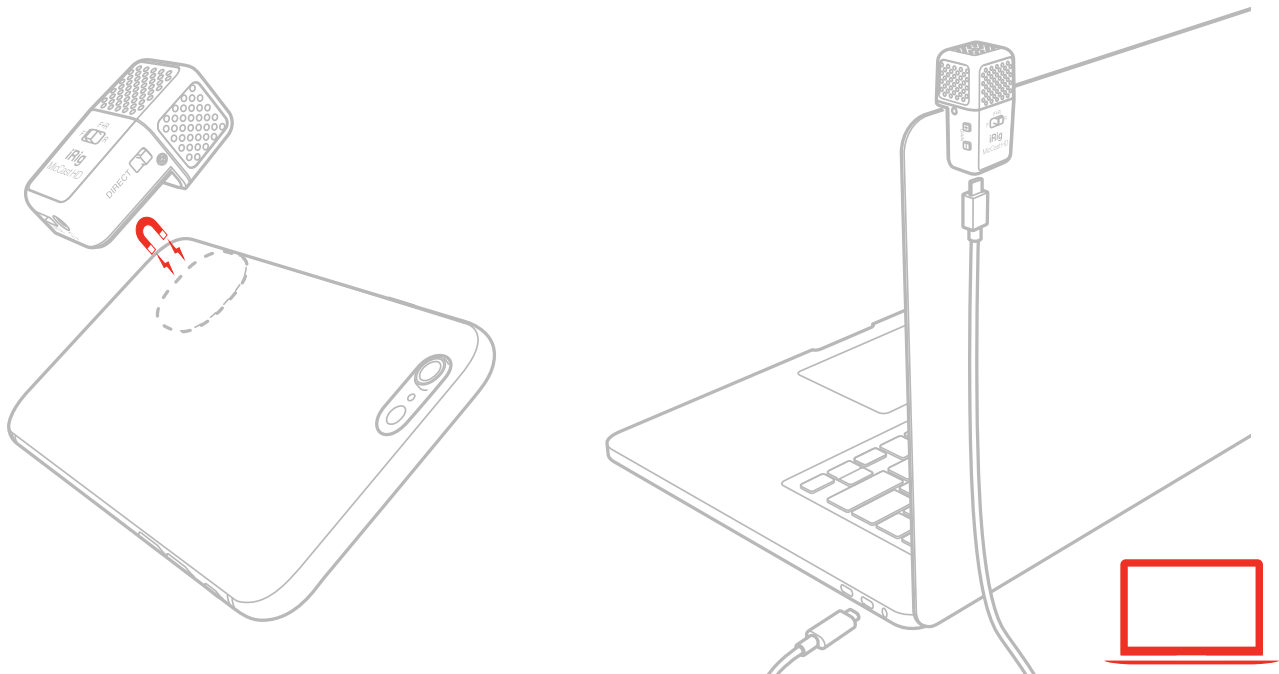
Register at: **www.ikmultimedia.com/registration**
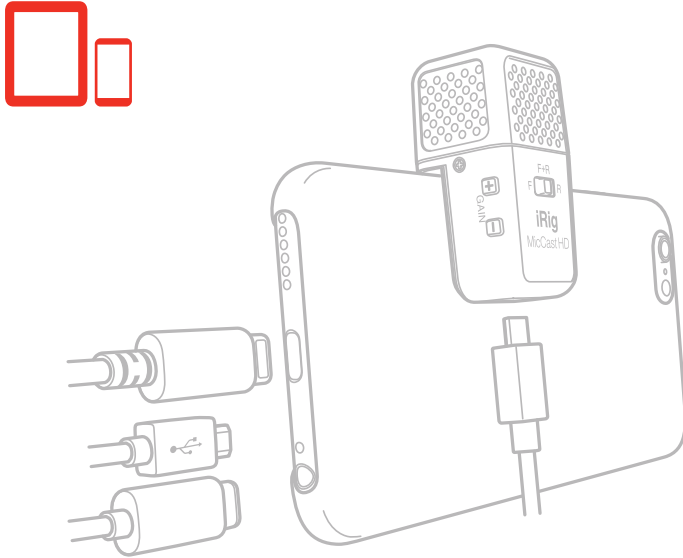
Installation and setup

1. Fix the metal plate in the desired position on your device. You can stick the plate on the back of the device, or you can stick it on the back of the case, or you can insert it between the device and its case. Depending on the position and the device you're using, we provided two different plate sizes so you can use the one that best fits your needs.

2. Attach the iRig Mic Cast HD over the plate: thanks to the built-in magnets the microphone will remain fixed in place. If using the iRig Mic Cast HD with a laptop, you can fix it on the back of the screen with or without the metal plate, depending on the device you're using.
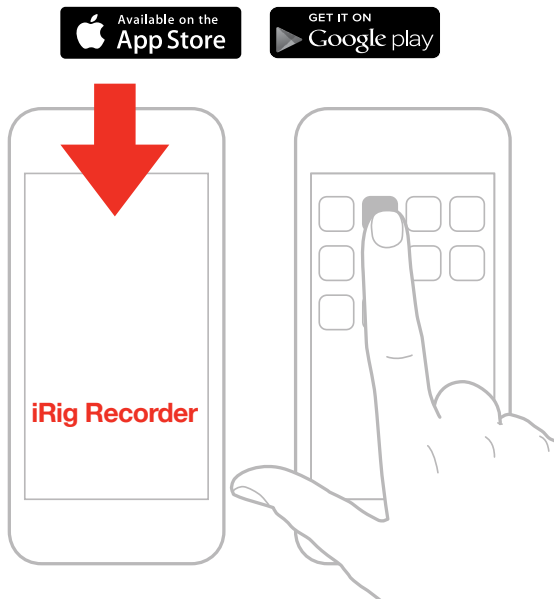
3. Connect the iRig Mic Cast HD to the device with the included cables.

USB Type-C / Lightning / USB OTG

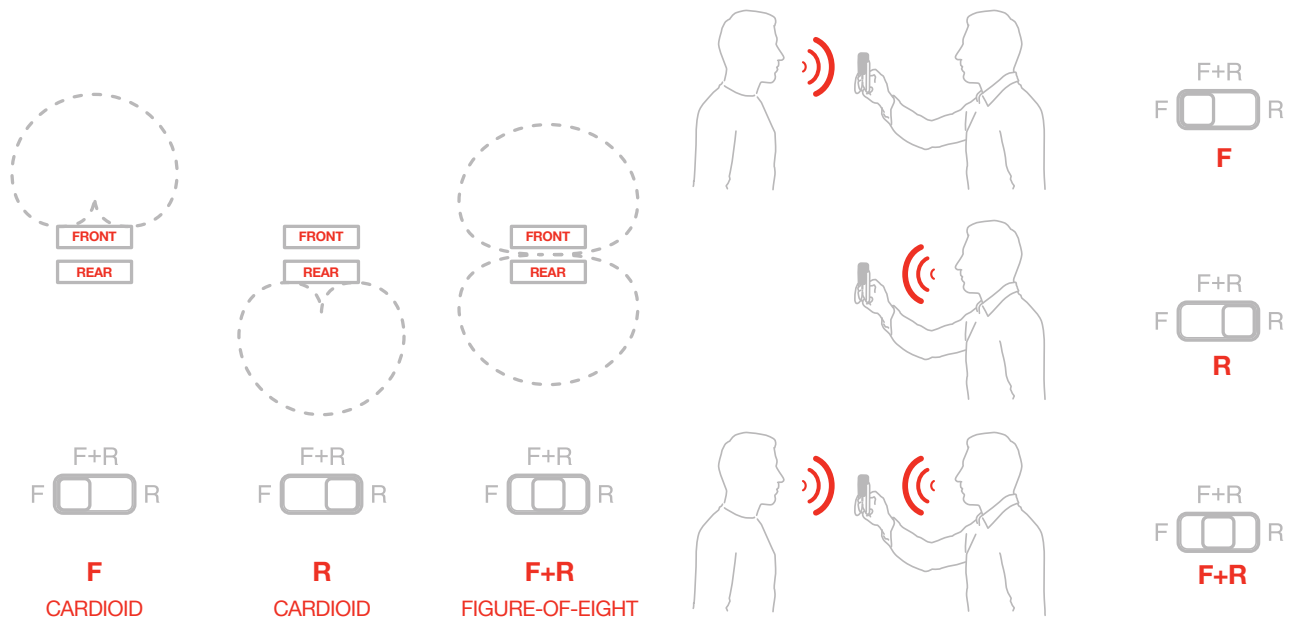4. Download the included App and launch it.

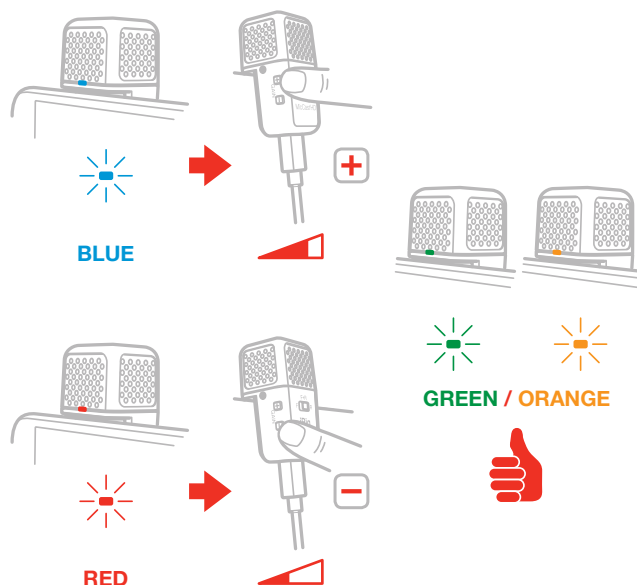**iRig Recorder**

ikdownloads.com/irigmiccasthd

5. Set your device to Airplane Mode and Do Not Disturb before recording. This allows you to record with no audio interruptions from phone calls or app notifications.

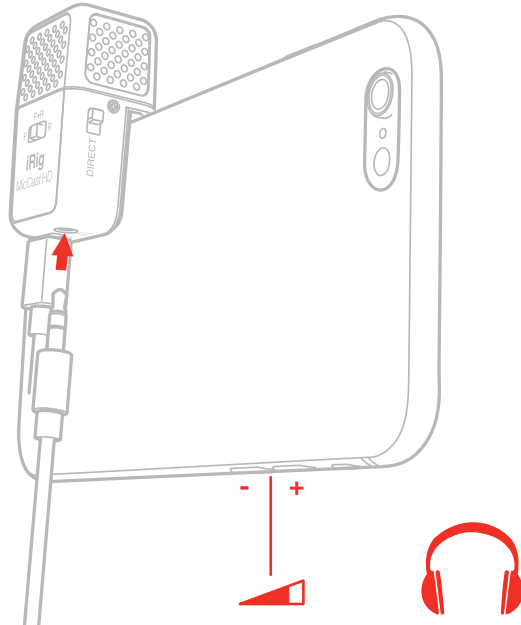6. The front 3-position switch allows you to choose between:

*   Single capsule cardioid (F, front capsule): ideal for interviews or lectures;

*   Single capsule cardioid (R, rear capsule): ideal for podcasts or voice memos;

*   Dual capsules (F+R, two capsules combined to form a figure-of-8 pattern): ideal for Q&A interviews and every situation that requires to record audio source coming from front and back, isolating the side space. Indeed, figure-of-8 microphones measure the difference in pressure between either side of an open diaphragm. This meant that they were very sensitive to sound from the front and rear, but almost completely deaf on the sides. On iRig Mic Cast HD this is obtained combining together the two cardioid capsules.
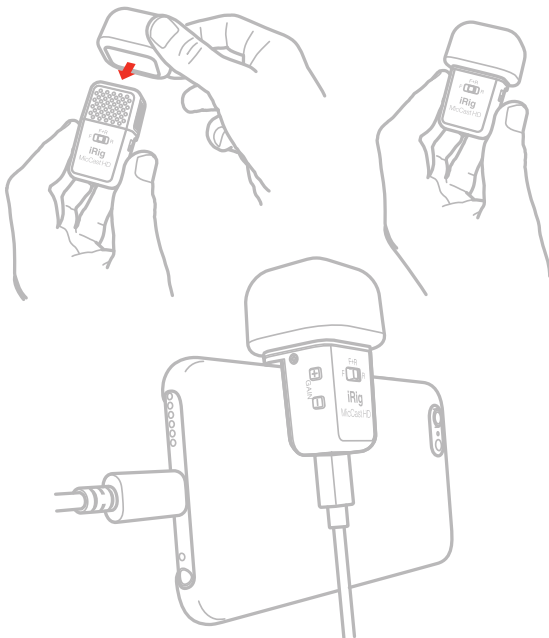

7. Set the microphone gain with the buttons (+ and -) on the side of iRig Mic Cast HD.

8. Connect your headphones to the headphones out on iRig Mic Cast HD. You can control its volume with the device's volume buttons. The side DIRECT switch, allows you to activate the direct monitoring feature.

9. Use the included wind shield in order to minimize environmental noises.
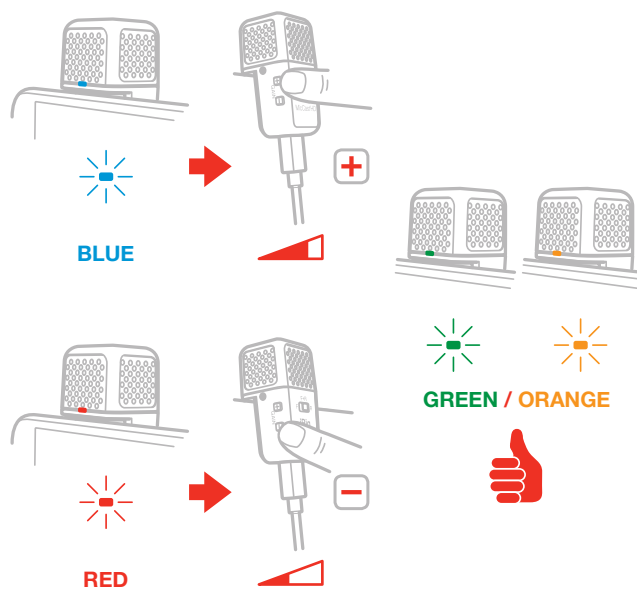
Recording tips

- To avoid recording interference from phone calls, messages and various notifications, turn your device to Airplane Mode.

- Place the microphone as far as possible from the Wi-Fi and Bluetooth antenna: this will help minimize radio interference and won't affect device performance.

- To detach the iRig Mic Cast HD from the metal plate, we recommend to slide the microphone instead of pulling it perpendicularly, in order to use less force for detaching the magnet from the plate.

- Remember that the iRig Mic Cast HD is a precision device that must be handled with care during use.

- The iRig Mic Cast HD magnetic snapping system is designed to optimally work with the included metal plates or similar ones provided with phones and tablets covers. It is not advisable to snap the microphone on a solid metal structure like tables or shelfs as in those a very strong force will be developed and handling the unit will be difficult, with risk of damages.
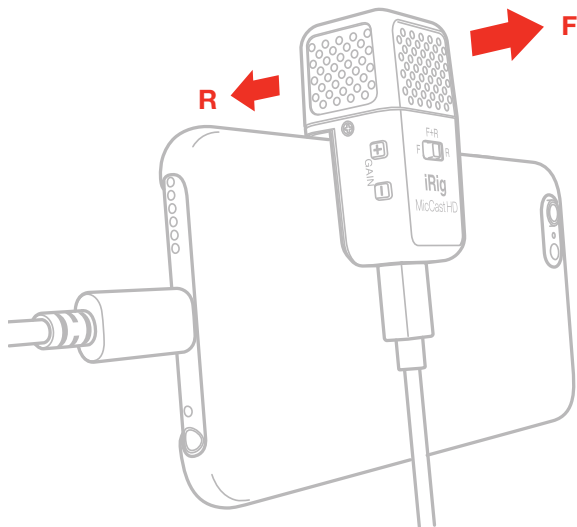
Setting optimal gain on iRig Mic Cast HD

When speaking or singing into iRig Mic Cast HD check the status LED. The multicolor LED on iRig Mic Cast HD gives you important information about the iRig Mic Cast HD's operating status. Each status is indicated by a different color:
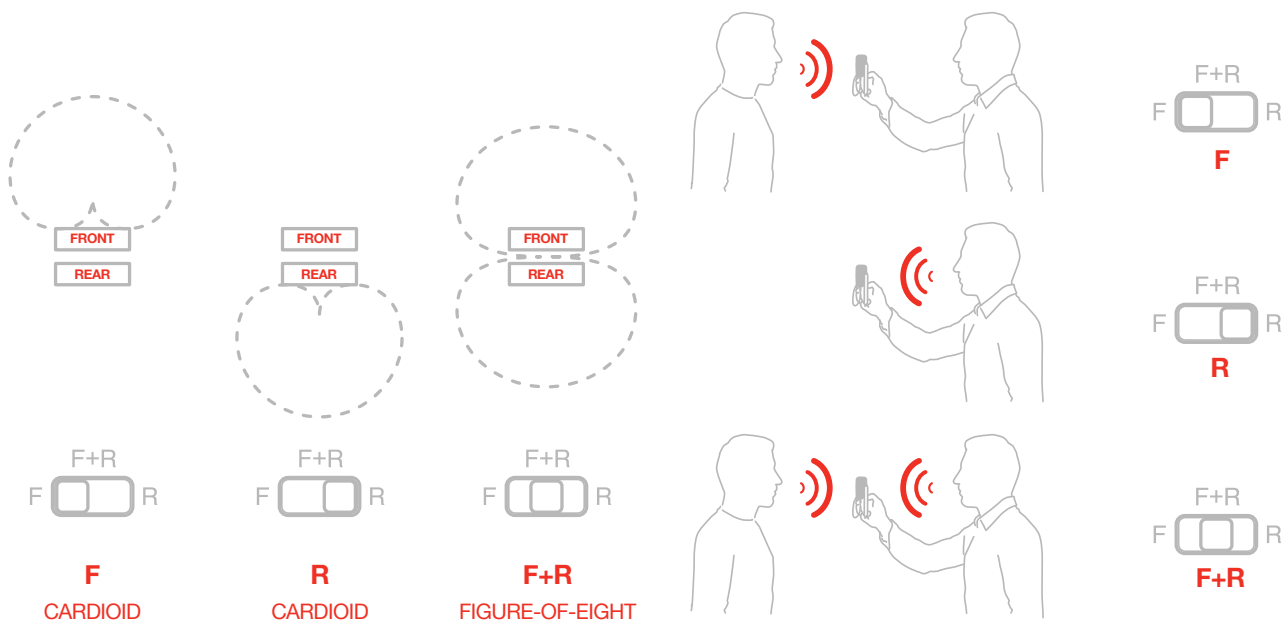

• If the LED is alternating between BLUE and GREEN or is always BLUE or GREEN, you should increase the iRig Mic Cast HD input gain with the "+" button.

• If the LED is sometimes flashing RED you should decrease the iRig Mic Cast HD input gain with the "-" button.

• When your level setting is optimal, the LED should alternate between GREEN and ORANGE while you talk or sing.
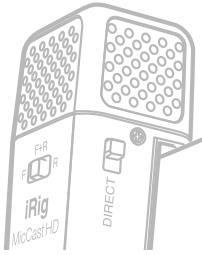
Setting the polar pattern

The front 3-position switch allows you to choose between:

- Single capsule **cardioid** (F, front capsule): ideal for interviews or lectures;

- Single capsule **cardioid** (R, rear capsule): ideal for podcasts or voice memos;

- Dual capsules (F+R, two capsules combined to form a **figure-of-8** pattern): ideal for Q&A interviews and every situation that requires to record audio source coming from front and back, isolating the side space. Indeed, figure-of-8 microphones measure the difference in pressure between either side of an open diaphragm. This meant that they were very sensitive to sound from the front and rear, but almost completely ignores sounds from the sides. On iRig Mic Cast HD this is obtained combining together the two cardioid capsules.

Direct monitoring

When recording an audio signal into your audio software, there is often a slight delay before it reaches the outputs of the software and iRig Mic Cast HD. This delay, called latency, is caused by the computer processing required to convert and record audio. Since this delay can be distracting, iRig Mic Cast HD provides a direct monitoring path from the inputs to the outputs, which is activated by the Direct Monitor switch. When Direct Monitoring is enabled, the input signal is mixed with the output signal from your audio software and routed directly to the Headphone output. This lets you hear the "live" inputs without latency. The Direct Monitor switch has no effect on what is being recorded by your software. When using the Direct Monitor feature, make sure any software monitoring option for direct (or "low latency") monitoring is disabled. Disabling low latency monitoring prevents "double-monitoring" of input audio signals when using the Direct Monitoring feature. When "double-monitoring" occurs, there will be an increase in volume and an undesirable "phasing" sound. For more details about its monitoring function, refer to the documentation for your audio software.

Troubleshooting

My recording is distorted.

Check that the input level on iRig Mic Cast HD has been set properly. If the red LED is lighting when you talk or sing decrease the input level as described in this guide.

I can't hear anything from the headphone output.

Check that the app you're using allows for audio-through from input to output. If not, you can activate the direct monitor feature on iRig Mic Cast HD.

Random noises appear during the recording.

This may be due to RF interferences: If the connected device sends or receives data wirelessly while recording, noise could occur in the recording. Although the shells of iRig Mic Cast HD have a layer of conductive paint that shields most of radio interferences, some unwanted noises could happen. We suggest to turn on Airplane mode and connect to Wi-Fi for streaming. If the noise persists, we suggest to disable also the Wi-Fi.

The iRig Mic Cast HD status LED is always dark blue and I don't get any sound.

In order for iRig Mic Cast HD to turn on, a Core Audio-compatible audio app must first be launched on your iOS device or Mac.

iOS: Be sure you are using an app that works with digital audio input from the Lightning dock connector.

Mac: Be sure you have set "iRig Mic Cast HD" as the audio input device on the audio app you are using.

Is the iRig Mic Cast HD compatible with Android devices?

Yes, the iRig Mic Cast HD is compatible with Android devices running Android 5 or later and with USB digital audio capabilities. Micro-USB-OTG to Micro-USB cable included.

Specifications

Microphone Type: condenser, electret

Capsule Size: 2x 0.55"

Polar Pattern: cardioid, figure-of-8

Interface Type: USB digital microphone with a built-in preamp

Conversion: 24-bit A/D, 24-bit D/A

Sampling Rate: 44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz

Frequency Response: 40Hz - 20kHz

Maximum Sound Pressure: 125 dB SPL

Sensitivity: -40 dB, 10 mV/Pa

Gain range: adjustable over a 50 dB range

Controls: gain buttons, capsule selector and direct monitor switch

Metering: Built-in multicolor LED for status and audio level indication

Connector Type: Micro-USB

Headphones Output: 1/8" TRS jack

Power: powered by connected device

Warranty

Please visit:

www.ikmultimedia.com/warranty

for the complete warranty policy.

Support and more info

www.ikmultimedia.com/support

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