



iRig[®] Mic HD

Digital microphone

USER MANUAL

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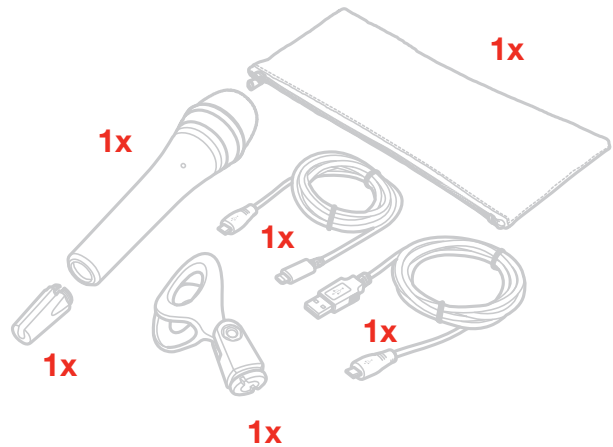
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iRig Mic HD

Thank you for purchasing iRig Mic HD, the high-quality, universal digital hand-held microphone for iPhone, iPod touch, iPad, Mac and PC.

Your package contains

- iRig Mic HD
- Cable Lock
- Protective zippered storage bag
- Mic clamp
- 5/8" to 3/8" thread adapter
- Micro USB to Lightning cable
- Micro USB to USB cable
- Quick Start Guide
- Registration Card



The sequel to the widely popular iRig Mic, iRig Mic HD is a versatile digital microphone for iPhone, iPod touch, iPad, Mac and PC. iRig Mic HD is the ideal mic solution for a wide range of applications including live and recorded vocal performances, speech, acoustic instruments, guitar amps and more. It allows for high quality results in all uses and conditions thanks to its high-quality electret condenser capsule, high-definition preamp and audiophile-grade 24 bit A/D conversion. iRig Mic HD is powered by your mobile device or computer, no batteries are required. Its preamp gain control and multicolor LED level indicator lets you dial in the perfect volume.

iRig Mic HD is designed for handheld usage, and it can also perfectly fit on a mic stand using the included universal clip.

Register your iRig Mic 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

iRig Mic HD Overview

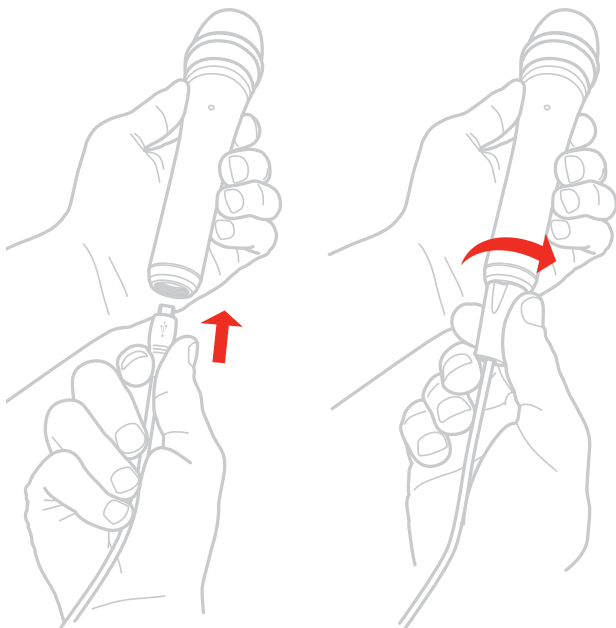


1. **High-quality electret cardioid capsule.**
2. **Status LED:** gives you important information about iRig Mic HD's operating status.
3. **Microphone Gain:** to increase the gain of iRig Mic HD turn the knob clockwise. To reduce the gain, turn the knob counterclockwise. The Status LED gives you information about the input signal level.
4. **Micro-USB port.**
5. **Cable Lock**

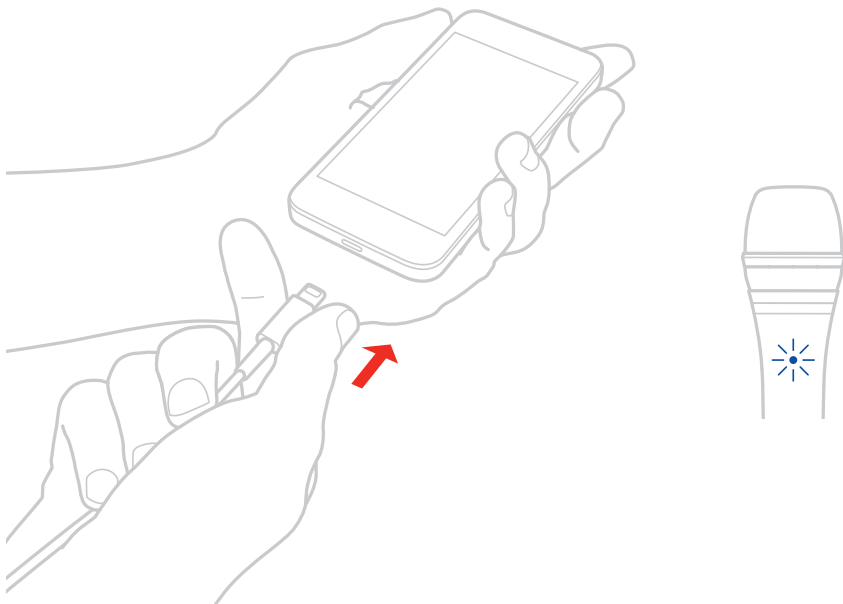
Installation and setup

iOS Devices

1. Connect the included Lightning cable to the Micro USB port on iRig Mic HD.



2. Connect the Lightning cable to the connector on your iOS device. The status LED on iRig Mic HD will turn dark blue.



3. Download your preferred audio processing or recording app like VocaLive, AmpliTube or iRig Recorder, and launch it.

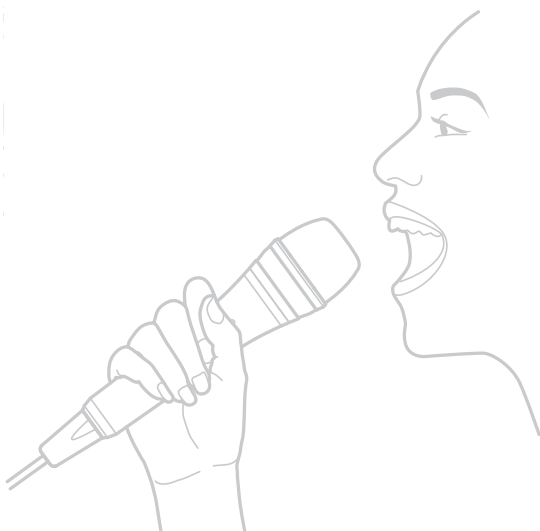


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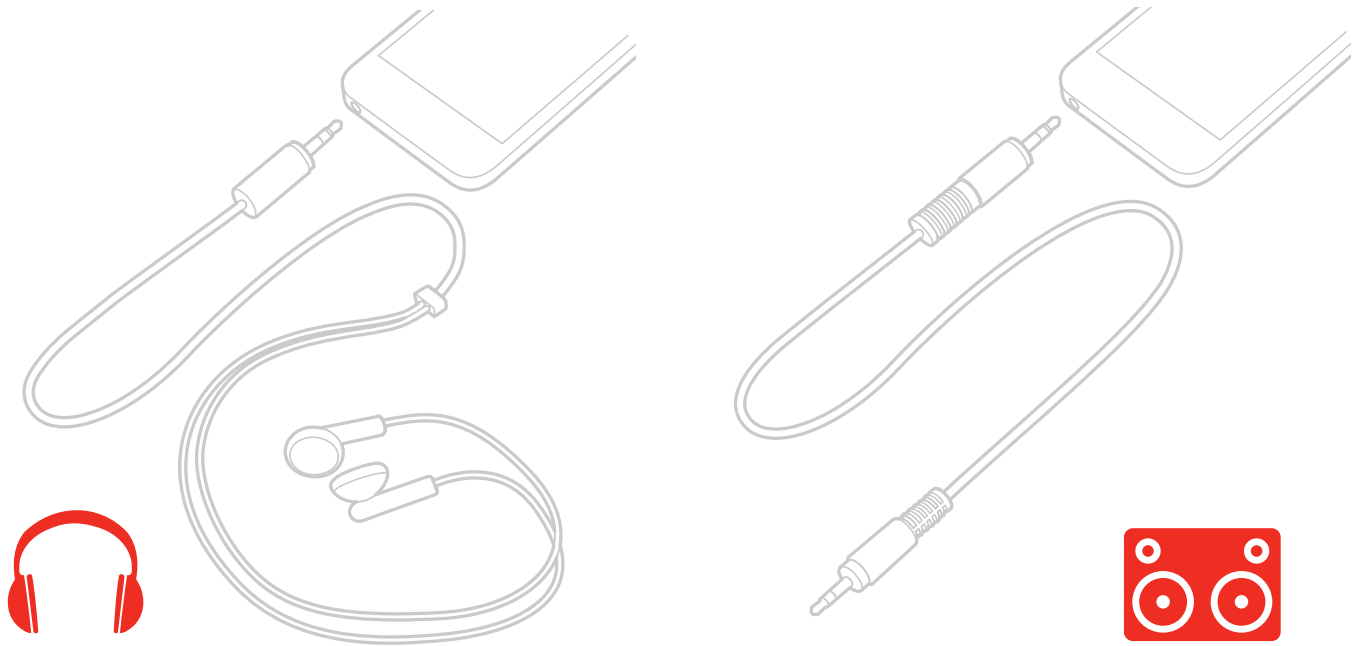
4. The status LED on iRig Mic HD will turn bright blue.



5. Start talking or singing into iRig Mic HD, then adjust the input level as required using the gain knob.



6. Connect your headphones, mixer or powered speakers to the iOS device headphone jack to monitor your recording.



WARNING: Permanent hearing loss may occur if earbuds or headphones are used at high volume. You can adapt over time to a higher volume of sound, which may sound normal but can be damaging to your hearing. Set your device volume to a safe level before that happens. If you experience ringing in your ears, reduce the volume or discontinue use of earbuds or headphones with your device.

Mac

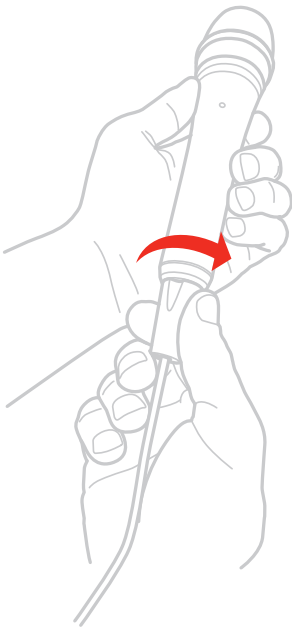
1. Connect the included Micro USB to USB cable to iRig Mic HD.
2. Connect the USB cable to a free USB port on your Mac, the status LED on iRig Mic HD will turn dark blue.
3. Launch any Core Audio-compatible application and select iRig Mic HD as the input device from the audio preferences. The status LED on iRig Mic HD will turn bright blue.
4. Start talking or singing into iRig Mic HD , and then adjust the input level as required using the gain knob.
5. Connect your headphones, mixer or powered speakers to the headphone jack on your Mac to monitoring your recording.

Cable Lock

You can use the included cable lock to make sure the Micro USB connector will never accidentally disconnect from iRig Mic HD.

To install the cable lock make sure the Micro USB connector is firmly attached to iRig Mic HD. Insert the cable lock and allow the cable to pass through the vertical slot, then tighten the cable lock by turning it clockwise towards the microphone body.

Once in place the cable lock will prevent accidental cable disconnections — now iRig Mic HD is ready for the stage!



iRig Mic HD status LED

The multicolor LED on iRig Mic HD gives you important information about the iRig Mic HD's operating status.

Each status is indicated by a different color:

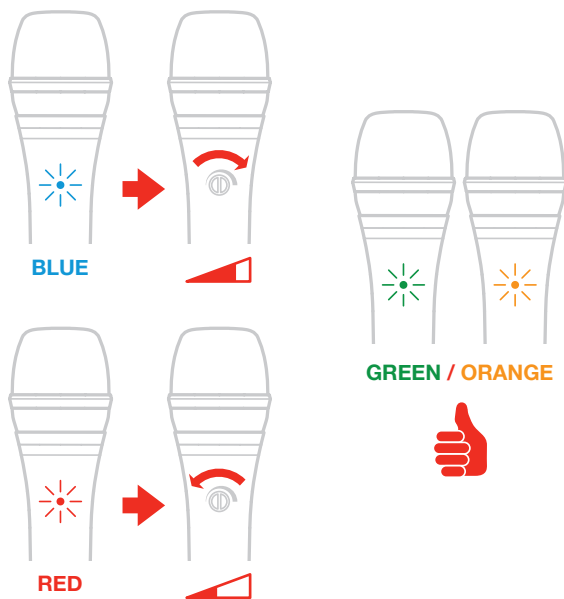
- LED is **off**: iRig Mic HD is not connected to any power source.
- LED is **dark blue**: iRig Mic HD is connected and in standby mode.
- LED is **bright blue**: iRig Mic HD is connected and active.
- LED is **green**: iRig Mic HD is active and the input signal is low.
- LED is **orange**: iRig Mic HD is active and the input signal is OK.
- LED is **red**: iRig Mic HD is active and the input signal is too high.



Setting optimal gain on iRig Mic HD

When talking or singing on iRig Mic HD check status LED.

- If the LED is alternating between BLUE and GREEN or is always BLUE or GREEN, you should increase the iRig Mic HD input gain by rotating the level control clockwise.
- If the LED is sometimes flashing RED you should decrease the iRig Mic HD input level by rotating the gain control counterclockwise.
- When your level setting is optimal, the LED should alternate between GREEN and ORANGE while you talk or sing.



Please note the iRig Mic HD gain control is intentionally slightly recessed to minimize the risk of accidental level changes during usage.

Usage Note

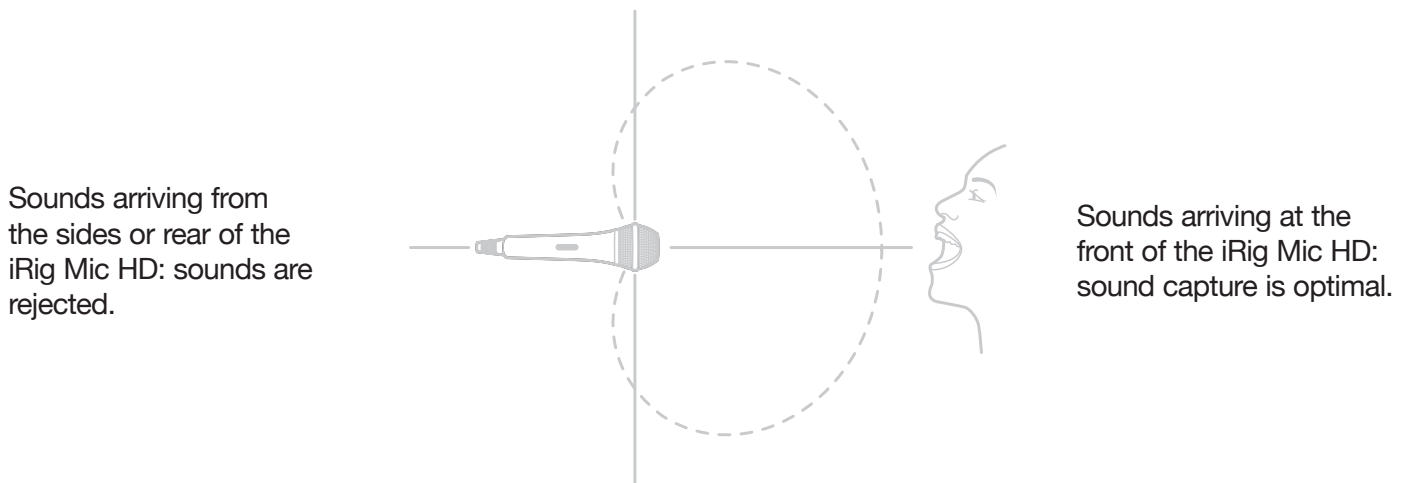
The frequency response of iRig Mic HD features a bump in the top end at about 8-12kHz. This bump adds definition and clarity, creating a strong presence in your recordings, much like listening to the recorded signal right next to your ear. The mid and lo-mid range of iRig Mic HD features a smooth and linear response that's very well suited for recording voices as well as acoustic instruments, giving an accurate recording of the sound source.

Signal Flow

iRig Mic HD employs only quality electronic components. It's diaphragm (the mic capsule) converts sound into electrical energy which is then amplified as accurately as possible and with minimal coloration. This analog signal is then passed off to the microphone's digital conversion circuitry which converts the analog signal into digital data that can be understood by computers or iPads/iPhones. All these features make iRig Mic HD the ideal microphone for recording vocals, podcasts and acoustic instruments on-the-go or in the studio.

Cardioid unidirectional pickup pattern

iRig Mic HD has a cardioid (unidirectional) pickup pattern. This design means that it primarily picks up sounds arriving in front of the microphone as opposed to from the sides or behind, this minimizes the risk of feedback. This makes it ideal for capturing singing, vocals, speech, instruments and interviews.



TIP: The built-in microphone of your mobile device is great for general recordings thanks to its “omnidirectional” pickup pattern. This means that sounds coming from all directions are captured almost equally. For this reason the iRig Mic HD is a great choice when increased clarity and isolation from unwanted sound is required.

Proximity effect

iRig Mic HD is unidirectional, therefore it changes its response to low frequencies depending on the distance from the sound source.

If you want more warmth and bass (fuller, bigger voices, for example), speak or sing very close to the microphone, just a few inches or even less.

If you are searching for a lighter and brighter sound, speak or sing at a further distance from the microphone, greater than 10 inches/25 centimeters.

This rule not only applies to vocals, the microphone will also respond this way with all instruments and sound sources.

Recording Applications

Vocals and speech

iRig Mic HD is a great microphone for recording voice and speech — like interviews. As said, the proximity effect allows you to model the sound of your recording. The closer you get to the mic, the more warmth and bass you'll get. For a “big” vocal sound with maximum presence, get the vocalist within one to three inches of the capsule (microphone head). The internal built-in windscreen helps avoid plosives at this close range. For a lighter sound, place iRig Mic HD further from the vocalist.



The acoustic environment play a key role in the success of a good recording. A room with carpet and curtains will cause much less reverberation in your vocals, making the recording sound more dry this allows your recording to be more easily manipulated during the mixing process. By contrast, a room with glass surfaces, marble, wood floors or tile will yield natural reverb, which may be pleasing to the ear but difficult to remove at a later time, and make your recording more difficult to mix.

Use iRig Mic HD to record speech and interviews on-the-go with incredible sound quality.



Acoustic instruments

Thanks to its features and its high-quality components, iRig Mic HD can also be used for recording acoustic instruments with studio-quality sound. For example, place iRig Mic HD so that it's facing the neck of an acoustic guitar— right where the neck joins the body (usually around the 12th or 14th frets) — for a balanced sound with plenty of sparkling high-end. Place the microphone in front of the soundhole to capture a blend of low-end. Or, for more high-end detail, place the microphone farther from the guitar either at the same neck position or above the instrument near the guitarist's head. Experiment with different positions and reach the sound you want.



An all around microphone

What do you want to record with your iRig Mic HD? Thanks to its wide gain range it is possible to record an extremely broad range of instruments: guitar amplifiers, drums, wind instruments — you name it, iRig Mic HD is a true all-around microphone.

Troubleshooting

I have connected iRig Mic HD to my iOS device, but it is not recognized and none of my audio apps work with it.

Remember to always connect the 30-pin or Lightning cable to the iRig Mic HD **before** connecting it to the iOS device.

Sound is distorted.

Check that the input level on iRig Mic 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.

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

In order for iRig Mic 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 30-pin or Lightning dock connector.

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

Specifications

Microphone Type: condenser, electret

Polar Pattern: cardioid

Interface Type: USB digital microphone with a built-in low-noise, high-definition preamp.

Frequency Response: 40 Hz - 18 kHz, -3dB

Maximum Sound Pressure: 134 dB

Distortion: 3% THD at 134 dB, 1 kHz

Windscreen: built-in

Sensitivity: adjustable over a 40 dB range

Built-in low profile gain control

Built-in multicolor LED for status and audio level indication

Connector Type: standard Micro-USB

Power and Connection: works with iOS and Mac/PC computer

Size: 185mm/7.28" x 48mm/1.89"

Cables length: 1.5m/59

Warranty

Please visit:

www.ikmultimedia.com/warranty

for the complete warranty policy.

Support and more info

www.ikmultimedia.com/support

www.irigmichd.com

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