

HH-IC

HANDHELD
CONDENSER
MICROPHONE
FOR IOS®/ANDROID DEVICES



POLSEN™

PRODUCT
MANUAL

THANK YOU FOR CHOOSING POLSEN.

The Polsen HH-IC microphone is a handheld, condenser microphone designed for recording high-quality audio on a mobile device. It is an ideal tool for the singer, instrumentalist, or songwriter on the go, but it is also perfect for journalists and podcasters conducting interviews or gathering audio in the field.

The HH-IC plugs directly into a 3.5 mm input jack of iOS® devices, most Mac® computers, and many Android devices (see compatibility requirements) to create professional-quality recordings anywhere. It works seamlessly with GarageBand® and many other recording apps. The 3.5 mm output allows for direct, real-time monitoring when used with software like GarageBand® that offer monitoring capability. With the appropriate cable, the headphone output of the HH-IC can also connect to a PA system, mixing console, or speakers.

At the heart of the HH-IC is the 16 mm back electret capsule that provides distinctly clear and accurate sound that is far superior to the built-in microphones of mobile devices like smartphones and tablets. Its cardioid polar pattern is ideal for recording vocals and acoustic instruments. The two-level switch with high-gain and low-gain settings makes the HH-IC capable of recording in a wide range of sound pressure conditions.

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The HH-IC's plug-and-play capability means that setup is as simple as connecting the microphone to a device and plugging headphones into the output jack. Singers will love the weight and shape of this premium handheld microphone. For hands-free operation, a desktop mic stand and a mic clip are included leaving the operator free to control the recording software. Its durable metal body will withstand the rigors of use on the road, making it an ideal tool for the mobile musician.

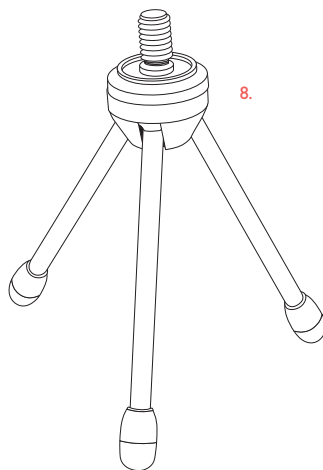
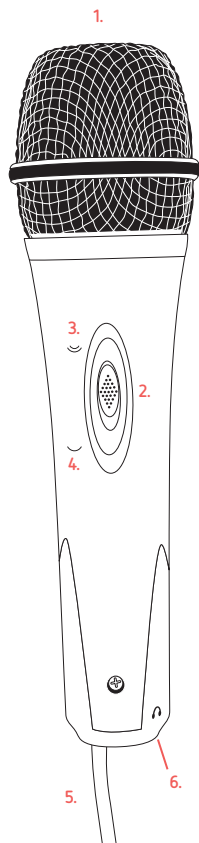
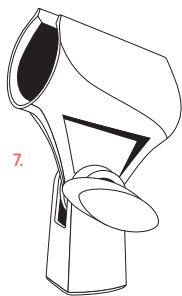
Among the benefits you'll enjoy:

- Condenser microphone that provides high-quality recording.
- Plugs directly into a 3.5 mm input jack of iOS® devices, Mac® computers, and many Android devices (see compatibility requirements).
- 3.5mm output jack for real-time monitoring through select apps with monitoring capability
- High-gain and low-gain settings for varying sound pressure conditions.
- Cardioid polar pattern ideal for recording vocals and acoustic instruments.
- Works with GarageBand® and can be used with a wide variety of apps.
- Integrated Windscreen



OVERVIEW

1. Microphone grille and integrated windscreen
2. Gain-control switch
3. High gain
4. Low gain
5. Mic cable
6. Headphone output jack
7. Adjustable mic clip
8. Desktop mic stand



PRECAUTIONS ⚠

- Please read and follow these instructions, and keep this manual in a safe place.
- Keep this product away from water and all flammable gasses or liquids.
- Do not attempt to disassemble or repair this product.
- Make sure that this product is intact and that there are no missing parts.
- All photos are for illustrative purposes only.



COMPATIBILITY REQUIREMENTS

iOS® Devices

All of the following devices must run OS 4.3 or later

- iPhone®: 3Gs, 4, 4S, 5, 5C, 5S
- iPod touch® 3rd generation, 4th generation, 5th generation
- iPad®: 2, 3rd generation, 4th generation, Air, Mini , Mini 2nd generation

Android Devices

The HH-IC microphone is only compatible with CTIA/AHJ compliant Android devices and with apps that accept audio from the external mic input.

Partial list of compatible Android devices:

- Google®: Nexus S, Nexus7
- HTC Desire® HD, HTC One® X
- Samsung Galaxy S®: II, III, 4
- Samsung Galaxy W®
- Samsung Galaxy Note®: Note, Note 2, Note 3
- Samsung Galaxy Tab®: Tab, Tab 2, Tab 3, Tab 7 plus, Tab 10.1
- Samsung Galaxy Nexus®

Macintosh™ Computers

- Mac® computers 2008 and later (excluding Mac Pro)

RECORDING WITH THE HH-IC

1. Connect the mic cable to the 3.5 mm headphone jack of an iOS® or Android device, or Mac® computer. (See compatibility requirements.)
2. Connect headphones to the 3.5 mm headphone output jack at the base of the microphone.
3. The headphone jack of the HH-IC can also be connected to a PA system, speakers or a mixing console with the proper cable.
4. Launch the recording app on your device.
5. Make sure the target track is in record mode and that the monitoring feature is enabled.

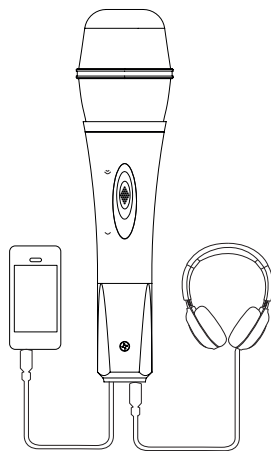
Note: If the software does not offer real time monitoring, you will only be able to hear audio on playback.

6. Select the high- or low-gain setting on the gain control switch.

If the recording app includes a level meter, select the gain setting that doesn't overload the meter.

If the app doesn't have a level meter, you should make a test recording to determine the best recording level and position for the microphone.

Note: For the best results, it's recommended to always do a test recording.



PLAYBACK

1. Playback can be monitored through the headphone output jack.



TROUBLESHOOTING

Problem	Solution
No sound is being recorded	<p>Make sure the mic cable from the HH-IC is completely inserted into the headphone jack of the recording device.</p> <p>Make sure the recording app or software is properly configured to receive input.</p>
Recorded sound is too soft	<p>Select the high-gain setting on the gain control switch.</p> <p>Move the microphone closer to the sound source.</p> <p>Raise the input level on the audio recording app.</p>
Recorded sound is too loud and distorts.	<p>Select the low-gain setting on the gain control switch.</p> <p>Move the microphone further away from the sound source.</p> <p>Lower the input level on the audio recording app.</p>
No sound in the headphones.	<p>Make sure the 3.5 mm headphone plug is completely inserted into the headphone output jack at the base of the HH-IC.</p> <p>Make sure your audio recording app or software provides real-time monitoring, and that it is enabled.</p> <p>If using an Android device, make sure it is CTIA/AHJ compliant.</p>

Problem	Solution
No sound when monitoring a recording.	<p>Make sure the monitoring feature of the recording app or software is enabled.</p> <p>If Android device is CTIA/AHJ compatible, try using a different application to record.</p>
No sound during playback.	<p>Make sure the headphones are completely connected to the headphone output jack of the HH-IC.</p> <p>Make sure the settings in the audio recording app are correct.</p> <p>If using an Android device, make sure it is CTIA/AHJ compliant.</p>



SPECIFICATIONS

ELEMENT 16 mm back electret diaphragm capsule condenser mic

POLAR PATTERN Cardioid

FREQUENCY RESPONSE 20 Hz - 20 KHz

SENSITIVITY -40db+/-2db, 0db=1v/Pa (1 KHz @ 1Pa)

MAXIMUM SOUND PRESSURE 120 dB

WINDSCREEN Built-in

CABLE CONNECTOR 1/8" (3.5 mm) plug

CABLE LENGTH 6' (1.8 m)

SYSTEM REQUIREMENTS

iOS® 4.3 or later

ANDROID Must be compliant with CTIA/AHJ wiring standard

MAC® COMPUTERS 2008 or later (excluding Mac Pro)

LENGTH (EXCLUDING CABLE) 7" (17.8 cm)

WEIGHT 0.8 lb. (0.36 kg)



iOS® is a registered trademark of Cisco. Mac® is a registered trademark of Apple. GarageBand® is a registered trademark of Apple. iPhone® is a registered trademark of Apple. iPod touch® is a registered trademark of Apple. iPad® is a registered trademark of Apple. Mac Pro is used by Apple. iPhone 3Gs, iPhone 4, iPhone 4S, iPhone 5, iPhone 5C, iPhone 5S are used by Apple. iPod touch 3rd generation, iPod touch 4th generation, iPod touch 5th generation are used by Apple. iPad 2, iPad 3rd generation, iPad 4th generation, iPad Air, iPad Mini, iPad Mini 2nd generation are used by Apple.

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ONE-YEAR LIMITED WARRANTY

This POLSEN product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function..

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

To obtain warranty coverage, contact the Polsen Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Polsen, along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit www.polsenaudio.com or call Customer Service at 212-594-2353.

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