

US-0B-55

OMNIDIRECTIONAL USB BOUNDARY MICROPHONE

WITH VOLUME CONTROL
AND HEADPHONE OUTPUT



PRODUCT
MANUAL



POLSEN®



THANK YOU FOR CHOOSING POLSEN.

The Polsen US-OB-55 Omnidirectional USB Boundary Microphone plugs into to your computer's USB port and allows you to sit comfortably without a large microphone or headset, and talk normally during videoconferences and calls. This easy-to-use microphone is a step up from your computer's internal microphone, and it will noticeably improve your audio quality during personal video meetings and conference calls. A headphone plug and touch-sensitive mic and speaker mute buttons let you manage the incoming and outgoing sound. The microphone runs off the power from your computer's USB port, and it supports plug and play, so no additional software is needed. The internal D/A converter boasts a 24-bit and 48 kHz sample rate for accurate, CD-quality sound.



PRECAUTIONS

- Please read and follow these instructions, and keep this manual in a safe place.
- Keep this product away from water and any flammable gases or liquids.
- Do not attempt to disassemble or repair this product.
- Handle this product with care.
- Clean this product with only a soft, dry cloth.
- Make sure that this product is intact and that there are no missing parts.
- All images are for illustrative purposes only.



OVERVIEW

1. Headphone output

Attach headphones or earphones with a 3.5 mm plug.

2. Microphone mute button

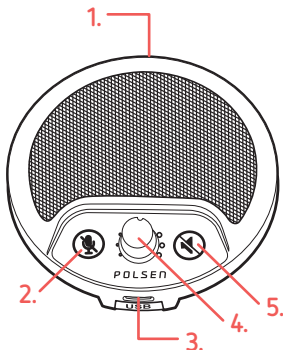
3. USB Type-C™ connector

Use the included USB cable to connect the microphone to a computer.

4. Volume knob

Adjusts the audio output volume and the microphone gain.

5. Audio Output mute button



OPERATING THE US-OB-55

Setting Up

Plug the USB cable into the microphone and an available USB port on your computer. The mute buttons will light up to indicate the microphone is receiving power.



Sound Settings

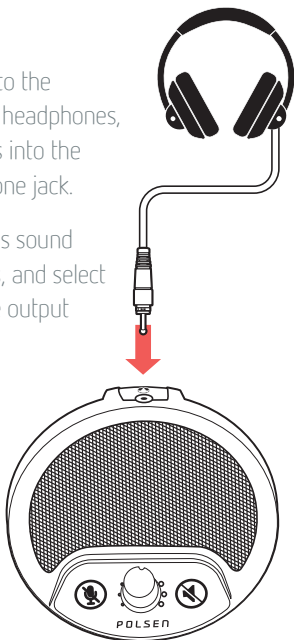
Open your computer's sound settings (Windows) or sound preferences (Mac), and select the US-OB-55 as the input device.



Using Headphones

If you want to listen to the incoming audio with headphones, plug the headphones into the US-OB-55's headphone jack.

Open your computer's sound settings/preferences, and select the US-OB-55 as the output device.



Microphone Mute Button

When the LED indicator is blue, the microphone is active. Tap the  button to mute the microphone. The LED will turn red. Tap the button again to unmute the microphone.

Audio Output Mute Button

When the LED indicator is blue, the audio from the headphone output is on. Tap the  button to mute audio output. The LED will turn red. Tap the button again to unmute the audio.

Adjusting the Microphone Gain

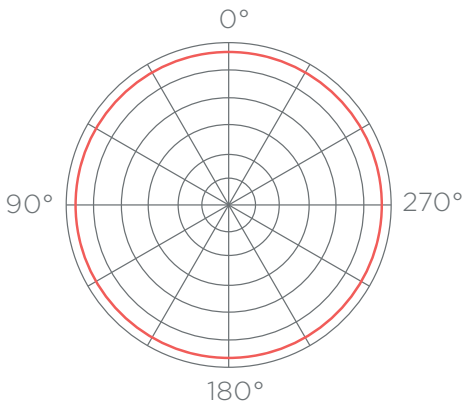
Turn the volume knob to adjust the input gain for the microphone.

Microphone Placement

The US-OB-55 features an omnidirectional polar pattern that uniformly picks up sound 360 degrees around the microphone. If several people are using the microphone, set it in the center of the table, and it will pick up all participants seated around it.



OMNIDIRECTIONAL POLAR PATTERN



TROUBLESHOOTING

Problem	Solution
The microphone is connected, but the other people in my conference can't hear me.	• Make sure that both USB connectors on the cable are fully inserted into the plugs on the microphone and computer. • Make sure the microphone's LED indicator is blue. If it's red, tap the mute button to unmute the microphone. • Go to your computer's system settings/preferences, and select the US-OB-55 as the input device.
There's no sound in my headphones.	• Make sure that both USB connectors on the cable are fully inserted into the plugs on the microphone and computer. • Make sure the speaker's LED indicator is blue. If it's red, tap the mute button to unmute the microphone.



SPECIFICATIONS

Transducer Condenser

Polar pattern Omnidirectional

Frequency response 20 Hz to 20 kHz

Sample rate 24-bit, 48 kHz(DAC)

Sensitivity -40 dB

Operating voltage 5 V

Power requirements 5 V, 500 mA (USB)

Signal to noise ratio ≥ 73 dB

Maximum SPL 120 dB (THD: 0.5% 1 kHz)

THD 0.5% @1 kHz

Dynamic range 95 dB

Output connector USB Type-C (USB 2.0)

Mute switch Yes

Housing material Base: Metal

Grille: ABS plastic

Dimensions Diameter: 3.3 in. (8.4 cm)

Height: 0.75 in. (1.9 cm)

Weight 7.1 oz. (201 g)

Cable length 6.6 ft. (2 m)

Cable connectors USB Type-C male, USB Standard-A male

Compatibility Windows, macOS



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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www.gradusgroup.com



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