

RC-77-U

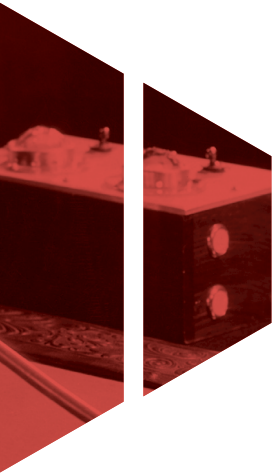
USB RETRO CONDENSER
MICROPHONE



POLSEEN™

PRODUCT
MANUAL





USB
CONDENSER
MICROPHONE
RC-77-U

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THANK YOU FOR CHOOSING POLSEN.

The Polsen RC-77-U is a large-diaphragm studio condenser USB microphone ideal for singers, songwriters, and podcasters who want to record high-quality sound directly to their computer. The stylish, retro look of the RC-77-U makes it an eye-catching addition to any studio.

This retro-styled microphone is Mac and PC compatible and connects directly to a computer's USB port. No drivers, power supply, or audio interface are necessary to begin recording. Launch your recording software, plug in the microphone, and you're ready to record. A headphone output provides low-latency volume adjustment, and a mute button gives you additional control.

In addition to the extreme ease of operation, the large 32 mm diaphragm delivers clean and natural sound. An integrated dual-stage grille minimizes pops and vocal plosives while protecting the capsule from corrosive moisture. The cardioid polar pattern focuses on the source in front of it while minimizing off-axis sound, and it makes the RC-77-U an excellent choice for recording vocals.



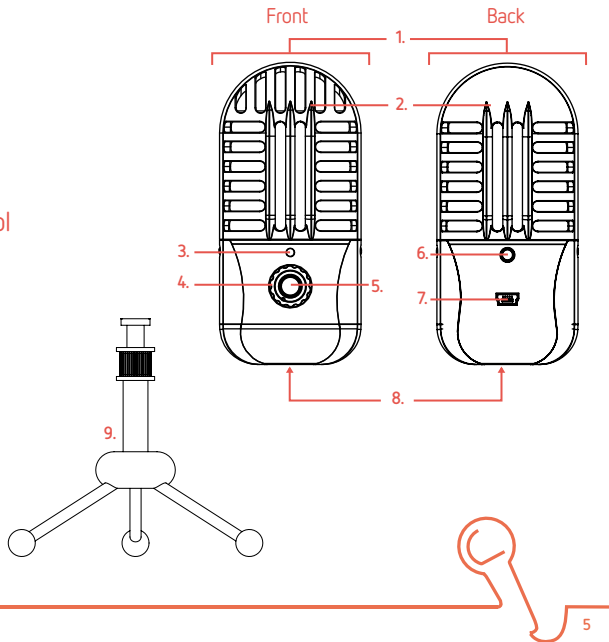
Among the benefits you'll enjoy:

- Studio condenser microphone ideal for singers, songwriters, and podcasters.
- Record directly to your computer. No drivers, power supply, or audio interface needed.
- Large, 32 mm diaphragm delivers clean and natural sound.
- Mac and PC compatible. Connects directly to your computer's USB port.
- Headphone output offers low-latency volume adjustment.
- Mute switch provides additional control when recording.
- Dual-stage grille minimizes pops and vocal plosives.
- Power, peak, and mute LED indicator lets you know your microphone's status at all times.
- Stylish, retro look makes a swell addition to any studio!



OVERVIEW

1. Microphone capsule
2. Grille
3. LED indicator
4. Headphone volume control
5. Microphone mute button
6. Headphone jack
7. USB Mini-B jack
8. Threaded 5/8" mount
9. Adjustable mic stand



PRECAUTIONS

- Please read and follow these instructions and keep this manual in a safe place.
- Exposure to high sound levels can cause permanent hearing loss. Avoid listening at high volumes for extended periods of time.
- Keep this product away from water and 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.
- To avoid damage to this product, be careful not to overtighten or improperly thread any of the threaded fittings.
- All images are for illustrative purposes only.

SETTING UP THE MICROPHONE

1. Screw the mic stand into the RC-77-U microphone, unfold the legs, and place the microphone on your desktop.
2. Loosen the locking collar to set the microphone to the desired height and securely tighten it so it remains in place.
3. Use the included USB cable to connect the microphone's Mini-B USB port to a powered USB port on your computer.

Note: When the microphone is receiving power, the LED on the front of the microphone will glow a constant blue.



SETTING THE AUDIO PREFERENCES IN YOUR COMPUTER

Windows 7/8

1. Go to the **Control Panel** and open the **Sound** window.
2. Click on the **Recording** tab (Fig. 1) and select **Polsen USB Mic**. If the **Polsen USB Mic** icon appears with a small circle with a downward pointing arrow, right-click on the device and select **Enable** from the drop-down menu.

Note: If the RC-77-U microphone does not appear in the **Recording** window, see the *Troubleshooting* section below.

3. Click on the **Set Default** button and then click on **OK** to make the RC-77-U as your default microphone. The microphone should appear with a green check mark next to it.
4. Test the microphone by speaking into it. If the meter next to the microphone registers your voice with green bars, your microphone is active, and the audio signal is reaching the computer.



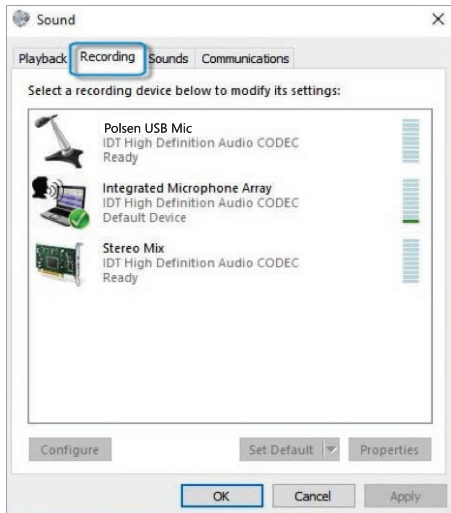


Fig. 1

Note: You will not be able to hear the output through microphone's headphone jack until you have launched your recording software.



Adjusting the Microphone Volume via the computer

To adjust the microphone's volume from the computer's Sound window, do the following:

1. Click on the **Recording** tab.
2. Select **Polsen USB Mic** and click on the **Properties** button. The microphone properties window will open.
3. Click on the **Levels** tab.
4. The **Mute** button should appear as a blue speaker. If the **Mute** button is on, click it to turn it off.
5. Use the microphone slider to adjust the level of the microphone.
6. Click **OK** to save the changes.

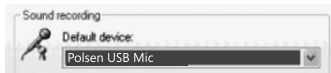
Ready



Windows XP

Your computer will automatically detect the RC-77-U, but it may not set it as the default sound device. To set the RC-77-U as the default follow these steps:

1. Go to the **Control Panel** and double-click on the **Sounds and Audio Devices** icon.
2. Click on the **Audio** tab. In the drop-down menu under **Sound playback**, select **Polsen USB Mic** as the default device.
3. In the drop-down menu under **Sound recording**, select **Polsen USB Mic** as the default device.
4. Click **OK** to save your changes and exit.



Note: You will not be able to hear the output through microphone's headphone jack until you have launched your recording software.



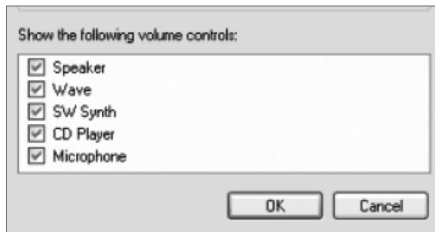
Adjusting the Microphone Volume via the computer

To adjust the microphone's volume from the computer's **Sounds and Audio Devices Properties** window, do the following:

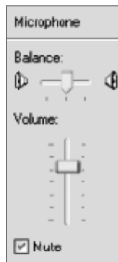
1. Go to the **Control Panel** and then double-click on the **Sounds and Audio Devices** icon.
2. Click on the **Volume** tab. Under **Device volume**, click on the **Advanced...** button to display the **Speaker** window.
3. If the **Microphone** volume adjustment column appears on the right side of the window, skip to step 7.
4. If the **Microphone** volume adjustment column does not appear on the right side of the window, click **Options** in the menu bar, and then select **Properties**.
5. In the **Mixer** device drop-down menu, make sure **Polson USB Mic** is selected. Under **Adjust volume for**, make sure the recording button is selected.



7. Under **Show the following volume controls**, click the checkbox next to **Microphone** to select it. Click **OK** to confirm your selection. The **Microphone** volume adjustment column should appear on the right side of the window.



8. To adjust the microphone volume, click and drag the slider up or down. Make sure the volume is not muted. If the **Mute** box is checked, click on it to remove the check. You can close the window when you are done adjusting the volume.



Mac OS X

Your computer will automatically detect the RC-77-U, but it may not set it as the default sound device. To set the RC-77-U as the default, follow these steps:

1. Go to **System Preferences** and select **Sound**. (Fig. 1)
2. Click on the **Input** tab and then click on **Polsen USB Mic** to select it as the default sound input device. (Fig. 2)
3. Click on the **Output** tab and then click on **Polsen USB Mic** to select it as the default sound output device. (Fig. 3)

From the **Sound** window, you can adjust the computer's input and output volumes, adjust the stereo balance, and elect to show the volume in the menu bar.

Note: You will not be able to hear the output through microphone's headphone jack until you have launched your recording software.





Fig. 1

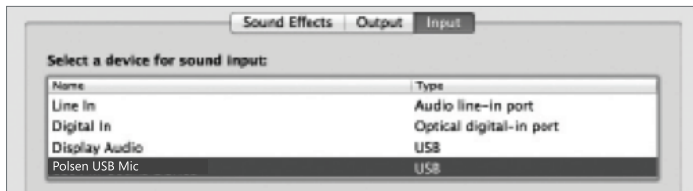


Fig. 2

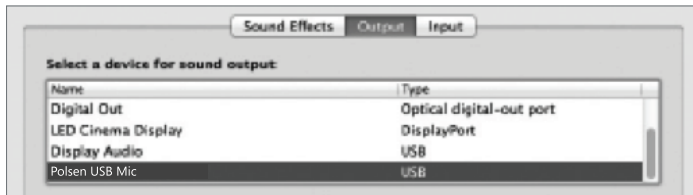


Fig. 3

POSITIONING THE MICROPHONE

The RC-77-U employs a cardioid pickup pattern design to capture sound mostly in front of the microphone.

You will usually want to position microphone so the button on the front is pointed directly at the sound source. However, it's important to experiment with microphone placement and positioning to find the best solution for your specific recording.

RECORDING WITH THE RC-77-U

1. Launch your recording software and select the RC-77-U for the input and output.
2. Create a new mono track and enable record mode.
3. Turn the headphone volume control down on the microphone.
4. If the mic input level needs to be adjusted, access the **Microphone Volume** slider window (Windows 7/8, page 10; Windows XP, page 12) or in the Input tab of **Sound Preferences** (Mac, page 14).
5. Talk, sing, or play into the microphone while turning the microphone's headphone volume control up to a comfortable listening level.



RECORDING WITH THE RC-77-U (continued)

Note: The LED indicator glows red to indicate clipping. If you see the LED indicator turn red, do one or both of the following:

- Move the microphone further away from the sound source.
- Turn down the microphone input level by following the procedures in step 4 on page 17.

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

To mute the microphone, press the mute button. The LED will glow a constant amber.

Note: The mute button mutes both the microphone and the headphones. You will not be able to listen to playback when the mute button is engaged.

Tip: To avoid an accidental burst of high volume, make sure to turn the headphone volume down before plugging in your headphones.



SPECIFICATIONS

POLAR PATTERN Cardioid

CAPSULE 32 mm large-diaphragm condenser

FREQUENCY RESPONSE 20 Hz to 20 kHz

MAX SPL 120 dB

SAMPLE RATE 44.1/48 kHz

BIT DEPTH 16 bit

POWER REQUIREMENTS 5 V 70 mA (idle),
100 mA (peak)

CONTROLS Headphone volume, mic mute
switch

OUTPUT 1/8" (3.5 mm) TRS

HEADPHONE IMPEDANCE 16 Ω

HEADPHONE OUTPUT 85 mW @ 16 Ω

THD 0.001% unloaded, 0.004% @ 32 Ω

HEADPHONE FREQUENCY RESPONSE 20 Hz
to 20 kHz

SNR 96 dB (A)

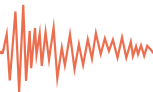
HEIGHT RANGE 9.5"-11.3" (24.1-28.7 cm)

WEIGHT 1.2 lb. (544 g)




TROUBLESHOOTING

Problem	Solution
The microphone is not receiving power (the LED is not glowing a constant blue).	<p>Make sure both ends of the USB cable are completely plugged into the USB ports on the computer and microphone.</p> <p>Make sure the Standard-A (larger) USB port is powered.</p>
The microphone is receiving power but not recording.	<p>Make sure the RC-77-U microphone is selected as the input and output in the sound preferences on your computer, and the microphone volume is high enough to deliver a strong signal to your audio software.</p> <p>Make sure the target track is in record mode.</p> <p>Make sure the mute button is not enabled.</p>



Problem	Solution
There is no sound coming from the headphones.	<p>Make sure the headphones are plugged into the microphone's headphone jack on the back of the microphone.</p> <p>Turn up the microphone's volume control knob.</p> <p>Make sure that the mute button is not enabled.</p> <p>Make sure that playback mode is enabled on the track or that the track is not muted.</p> <p>Make sure RC-77U is selected as the output device in your computer's sound preferences.</p>
The sound is distorted.	<p>Turn down the microphone volume in the system preferences.</p> <p>Move the microphone away from the sound source.</p>

TROUBLESHOOTING

Problem	Solution
The mic stand needs to be reassembled.	<p data-bbox="338 234 1040 270">Insert the shaft through the narrow end of the nut. (Fig. 1)</p> <p data-bbox="338 285 787 322">Fit the washer onto the shaft. (Fig. 2)</p> <p data-bbox="338 337 1369 373">Place the shaft into the threaded mount of the mic stand and tighten the nut. (Fig. 3)</p> <p data-bbox="338 389 1090 425">Set the shaft to the desired height and tighten the nut. (Fig. 4)</p> <div data-bbox="338 441 1403 638"></div> <p data-bbox="338 648 402 684">Fig. 1</p> <p data-bbox="613 648 677 684">Fig. 2</p> <p data-bbox="886 648 949 684">Fig. 3</p> <p data-bbox="1158 648 1221 684">Fig. 4</p>

Problem	Solution
When setting the audio preferences in Window 8, the microphone does not appear in the Sound window under the Recording tab.	<p>Right-click in an empty area of the Sound window.</p> <p>In the pop-up window, click on Show Disabled Devices and Show Disconnected Devices to select them.</p> <p>If Polsen USB Mic appears but is listed as “Currently unavailable” or “Not plugged in, unplug it and then reconnect it.</p>
After going through the steps above, Polsen USB Mic still doesn't appear in the list in the Sound window.	<p>Make sure the port that the microphone is connected to is a powered USB port and that the LED indicator on the front of the microphone glows a constant blue.</p> <p>Try a different port on your computer.</p>



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.

Product warranty provided by the Gradus Group.
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