



UC4-B

PROFESSIONAL Multi-Pattern USB Microphone

USER'S GUIDE

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Thank you for choosing Senal.

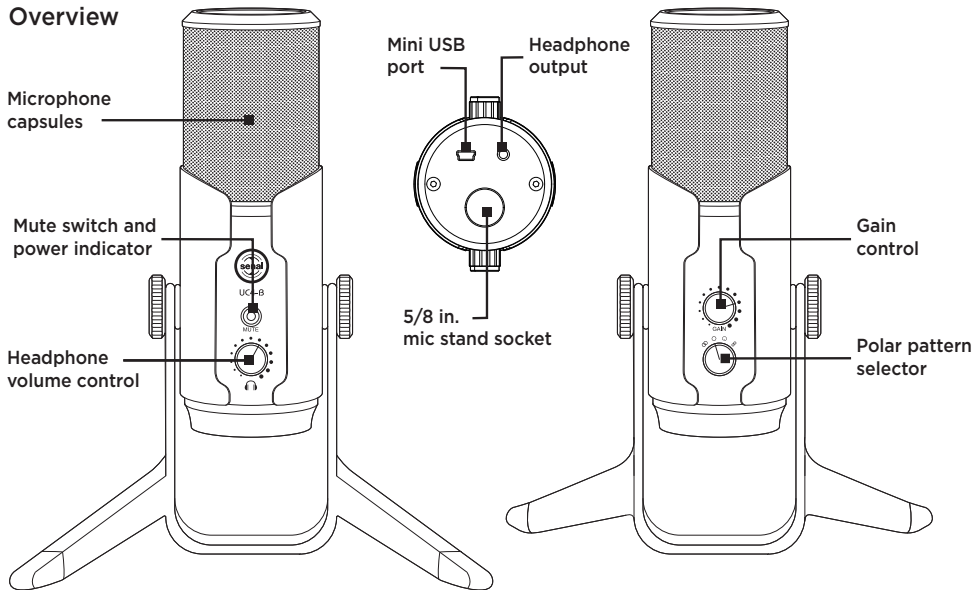
The UC4-B is the ideal microphone for so many different applications, it's impossible to list them all. Podcasts, voiceovers, instruments, rehearsals, and broadcasts are just some of the great uses for this versatile mic.

The UC4-B features an internal analog-to-digital converter that offers 16/24-bit depth and up to 192 kHz resolution for stunning, accurate, and robust sound. An innovative triple-capsule array allows you to record in stereo to capture ambient sound, or select between cardioid, bidirectional, or omnidirectional polar patterns. Whether you're recording a solo voice, instrument, interview, or meeting, the UC4-B has a setting to perfectly capture the sound. And the headphone output provides latency-free monitoring. The microphone connects directly to a USB port on your computer, so phantom power or an additional A/D converter isn't necessary. Plug-and-play connectivity and simple, intuitive controls will have you recording broadcast-quality sound in seconds.

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.
- Keep this product away from water and flammable gases or liquids.
- Do not attempt to disassemble or repair this product yourself. There are components inside that can produce a hazardous electric shock.
- 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.

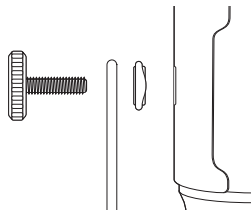
Overview



Assembling the UC4-B

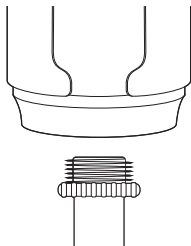
The mic stand's feet should extend out toward the front of the microphone. To save space on your desktop, the microphone can be mounted with the feet pointing toward the back.

1. Place the washers on either side of the microphone. The metal side should face out.
2. Place the microphone and washers into the desktop stand, and align the attachment holes.
3. Screw in the thumbscrews on both sides, and tighten until secure.



Mounting the UC4-B on a Microphone Stand

1. Remove the microphone from the desktop stand by unscrewing the thumbscrews.
2. If the microphone stand's threaded mount includes a locking washer, turn it clockwise until it's at the bottom of the threads.
3. Screw the UC4-B onto the mic stand.
4. Tighten the connection by rotating the locking washer counterclockwise until secure.



Windows Set-Up

Use the included USB cable to plug the UC4-B into your computer. Once the connection is made, the power indicator on the front of the microphone will glow green.

Your computer will automatically detect the UC4-B. If your computer is connected to the internet, it will download the appropriate driver.

To set the UC4-B as the default mic, follow these steps.

Windows 10

1. Go to the Control Panel, and open the Hardware and Sound control panel.
2. Click on Sound in the list of control panels.
3. Click on the Recording tab, and select the UC4-B microphone in the list.
4. Click on the Properties button at the bottom of the window.
5. In the Properties window, click on the Levels tab, and set the microphone level to 100% as a starting point. Once this is set, you can adjust the gain level with the gain control knob on the microphone. If the signal from the microphone is distorted or too loud, you can return to this window to decrease the volume.
6. Click OK to save the changes and exit.

Windows XP

1. Go to the Control Panel, and double-click on the Sounds and Audio Devices icon. Then click on the Sound icon.
2. Click on the Audio tab. Select the UC4-B microphone as the default device in both the Sound playback and Sound recording drop-down menus.
3. Click OK to save the changes and exit.

Windows 7

1. Go to the Control Panel, and select the Hardware and Sound icon. Then click on the Sound icon.
2. In the Sound Preferences window, select the UC4-B microphone under the Playback and Recording tabs.
3. After you have selected the UC4-B under the Recording tab, click on the Properties button.
4. In the Microphone Properties window, click on the Levels tab, and set your microphone volume to 100%. Once this is set, you can adjust the gain level with the gain control knob on the microphone.
5. Click on the Advanced tab. Select a sample rate from 44.1 to 192 kHz, and a bit rate of 16 or 24 for your recording. Click OK to set your selections, and exit the Control Panel.

Mac OS Set-Up

1. Use the included USB cable to plug the UC4-B into your computer. Once the connection is made, the power indicator on the front of the microphone will glow green.
2. Open the System Preferences window, and double-click on the Sound icon.
3. In the Sound preferences window, select the UC4-B microphone under the input and output tabs.
4. In the Input screen, set the input and output volumes to 100%. Once this is set, you can adjust the gain level with the gain control knob on the microphone.
5. Close the Sound Preferences, and quit system preferences.
6. Access your recording software to select the sample rate and bit depth for your recording.

Recording with the UC4-B

Gain Control

Use the gain control knob to adjust the UC4-B's input gain.

Higher gain is usually preferable when recording quiet subjects, and lower gain is preferable for loud subjects, although your needs will depend upon your specific scenario.

Monitoring with Your Headphones

Plug your headphones directly into the UC4-B's headphone jack on the bottom of the microphone, and use the volume control on the front of the microphone to adjust the headphone volume.

Monitoring via the microphone's headphone output prevents the latency that often occurs when monitoring through a computer's headphone jack.

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

Mute Button

Press the mute button to stop transmitting signal. The power indicator will glow red when the microphone is muted.

Press the mute button again to unmute the microphone. The power indicator will glow green.

Selecting a Polar Pattern

The polar-pattern selector on the back of the microphone allows you to select one of four patterns: stereo, cardioid, bidirectional, and omnidirectional.

The Senal logo is on the front of the microphone.

Stereo

The dual capsules in the microphone are deployed in an XY pattern for a wide stereo spread and a realistic sonic image. Stereo mode is perfect when you're recording a musical ensemble, dialog, or general ambiance.

Point the microphone directly at the sound source so equal signal will be recorded on both channels. If you prefer to change the stereo balance of your sound to favor one channel, reposition the microphone to the left or right.

Cardioid

Cardioid mode captures sound that's directly in front of the microphone while rejecting off-axis sound. A cardioid polar pattern delivers a present and rich sound without the atmosphere or ambiance you hear in other polar patterns.

The cardioid polar pattern is best for recording voiceovers, vocals, podcasts, or if you're in a noisy environment.

Bidirectional

Bidirectional mode captures sound directly in front of and directly behind the microphone while it rejects sound from the sides. The bidirectional polar pattern is a time- and space-saver because you can record two subjects with a single microphone.

Bidirectional polar pattern is best for recording interviews, conversations, or vocal duets. It will deliver a natural sound that would ordinarily require two microphones.

Omnidirectional

In omnidirectional mode, the microphone picks up sound in a 360° pattern. Sounds are equally clear and loud no matter with direction they come from. Omnidirectional polar pattern also picks up the most ambiance and room noise, so the omnidirectional setting is usually most effective in rooms with adequate acoustic treatment.

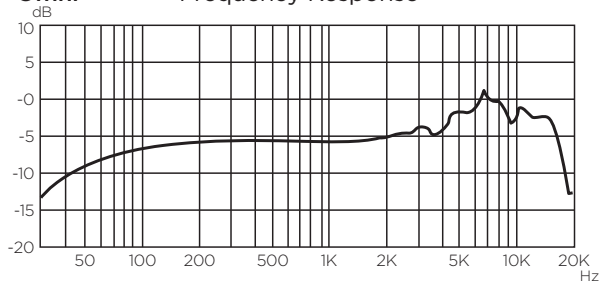
The omnidirectional polar pattern is best when recording a large meeting or conversation, band rehearsal, or multiple people sitting around a conference table.

Troubleshooting

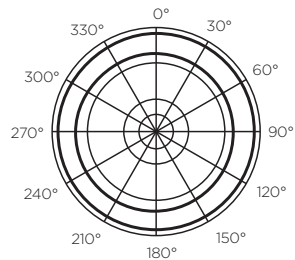
Problem	Solution
The microphone does not turn on.	Make sure the USB cable is completely plugged into the computer's and the UC4-B's USB ports.
I don't hear anything in the headphones, or the headphones are too quiet.	<p>Make sure the headphones are completely plugged into the headphone jack on the bottom of the microphone.</p> <p>If the power indicator glows red, the mute button is engaged. Press the mute button to unmute the microphone. The power indicator will glow green.</p> <p>Turn up the headphone volume on the front of the microphone.</p> <p>Turn up the master volume on your computer.</p> <p>If your headphones have a built-in volume control, turn it up.</p>
The sound is distorted.	<p>Turn down the UC4-B's gain control.</p> <p>Move the microphone farther away from the sound source.</p>

Omni

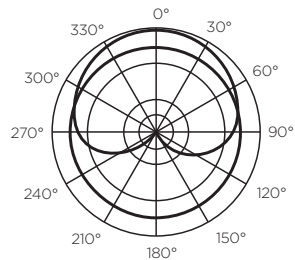
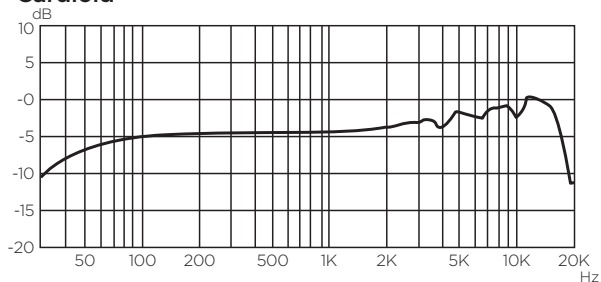
Frequency Response



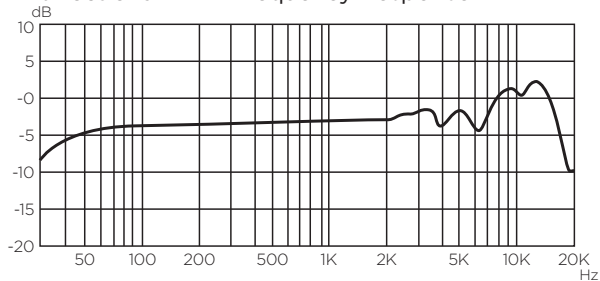
Polar Pattern



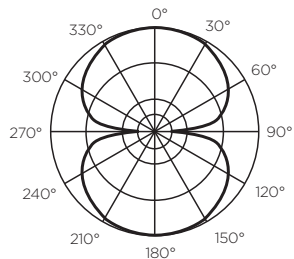
Cardioid



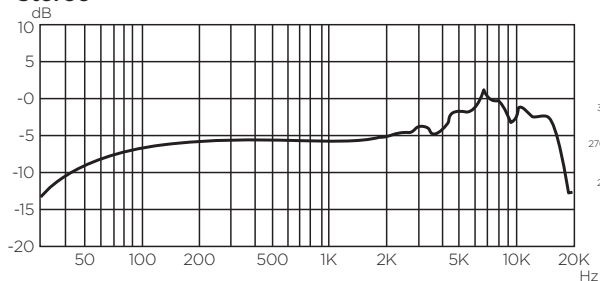
Bidirectional Frequency Response



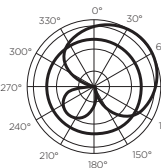
Polar Pattern



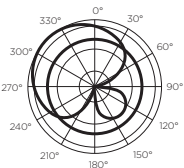
Stereo



L Channel



R Channel



Analog Performance

Transducer	Condenser (x3)
Capsule Diaphragm	16 mm (x3)
Polar Pattern	Stereo, cardioid, bidirectional, omnidirectional
Pattern Selection	Switchable
Frequency Response	20 Hz to 20 kHz
Sensitivity	5.6 mV (1 V/Pa @ 1 kHz)
Maximum SPL	120 dB (THD: 0.5% 1 kHz)
Output Impedance	32 Ω
Power Output	100 mW

Digital Performance

Bit Depth	16 or 24 bit
Sample Rate	44.1 to 192 kHz
Operating System Support	Windows 7 or later, OSX 10.9 or later
Available Port	USB

General Specifications

Output Connector	Mini USB
Operating Current Consumption	500 mA
Operating Voltage	5 V
Data Transmission Speed	USB 2.0
Controls	Headphone volume knob Gain knob Polar-pattern selector Mute switch
USB Cable Length	7.5 ft. (2.3 m)
Length	7.1 in. (18.1 cm)
Diameter	2.4 in. (6.1 cm)
Weight	2.5 lb. (1.13 kg) with stand

One-Year Limited Warranty

This Senal 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 Senal Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Senal 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.senalsound.com or call Customer Service at 212-594-2353.

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www.gradusgroup.com

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