

CLOCKAUDIO CUB-33

Conference USB Microphone



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IMPORTANT SAFETY INSTRUCTIONS



TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Only use attachments/accessories as specified by Clockaudio.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, if the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

LIMITED ONE YEAR WARRANTY

The equipment is warranted for one year from date of purchase from Clockaudio against defects in materials or workmanship.

This warranty does not cover equipment which has been abused or damaged by careless handling or shipping.

This warranty does not apply to used or demonstrator equipment.

Should any defect develop, Clockaudio will, at our option, repair or replace any defective parts without charge for either parts or labor. If Clockaudio cannot correct the defect in the equipment, it will be replaced at no charge with a new item. Clockaudio will pay for the cost of returning the replacement equipment to you.

This warranty applies only to items returned to Clockaudio, shipping costs prepaid, within one year from the date of purchase.



At the end of the life of this equipment, dispose of equipment according to local regulations.

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GETTING STARTED

The Clockaudio CUB-33 is a desktop microphone, preamp, and USB device all in one convenient package. Featuring the popular C3 capsule and our rugged C33/SR gooseneck, the CUB-33 provides high intelligibility audio for your video conferencing needs.

The configurable Touch LCD screen on the front of the CUB-33 allow quick access to MUTE functions, color coded so you always know if you are muted or live. Additionally, a built in VU meter shows the input level of your microphone, assuring you that your levels are perfect for video streaming.

FEATURE OVERVIEW

- High quality Clockaudio C3 cardioid microphone
- 24-bit/48Khz high quality digital conversion
- Plug and Play with PC and Mac
- USB bus power
- Touch LCD screen
- Compact design with positionable gooseneck

IN THE BOX

- CUB-33 Base Unit
- 6' USB cable
- Quick Start Card

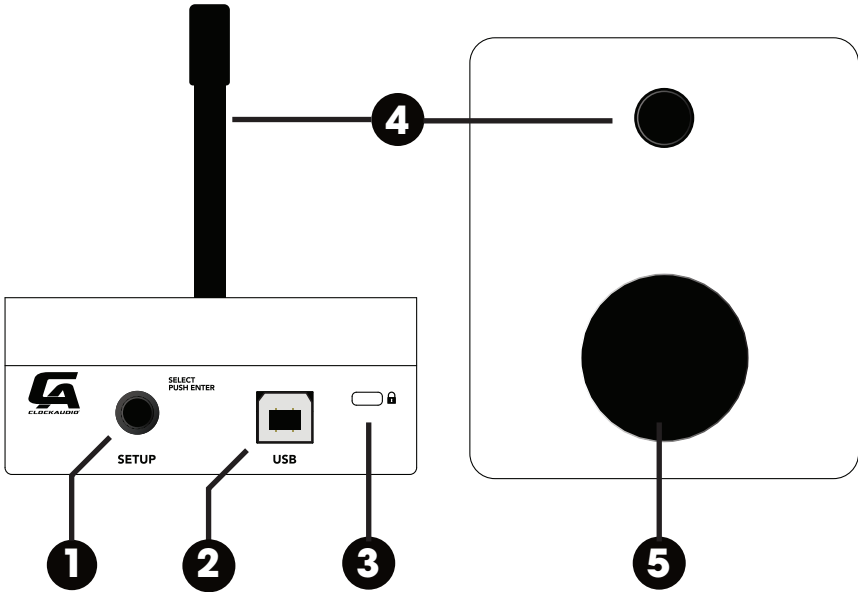


DIAGRAM OF FUNCTIONS

1. Rotary Knob/Setup Button
2. USB Port
USB streaming port (Type B) for connection to Windows or Mac PC (Type A). Also powers the CUB-33.
3. K-LOCK Slot
4. C33/SR Gooseneck with C3 microphone capsule
5. Touch LCD Screen

SETTING UP THE CUB-33

Setting up the CUB-33 is incredibly easy.

1. Connect the CUB-33 to a Windows PC or Mac computer
2. Configure the CUB-33 with the Rotary Knob on the back
3. Setup the CUB-33 on the computer (if necessary)

CONFIGURING THE CUB-33

Press the Rotary Knob on the back of the CUB-33 until the setup menu appears (approximately 1.5 seconds). Turn the Rotary Knob to access each menu feature. PRESS the Rotary Knob to edit the selected item.

MICROPHONE GAIN

Set the gain of the microphone with this control. The default is 47dB. Turn the Rotary Knob to adjust the settings.



SCREEN BRIGHTNESS

Set the brightness of the touch LCD screen. Turn the Rotary Knob to select Low, Medium, or High brightness.



UNMUTE BUTTON COLOR

Select the color the touch LCD screen will display when the microphone is in normal, unmuted operation. Turn the Rotary Knob to select Blue, Red, or Green.



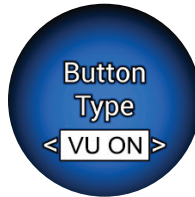
MUTE BUTTON COLOR

Select the color the touch LCD screen will display when the microphone is muted. Turn the Rotary Knob to select Blue, Red, or Green.



BUTTON TYPE

The CUB-33 has a built in VU meter for monitoring input levels. This meter can be displayed on the Touch LCD screen button. Turn the Rotary Knob to select VU ON or VU OFF.



BUTTON BEHAVIOR

This function determines how the LCD touch screen "button" will function. Turn the Rotary Knob to select LATCH or PTM mode.

- LATCH – In Latch mode, press the button to turn on the MUTE and press again to turn off MUTE.
- PTM – In PTM (Press to Mute) mode, the CUB-33 will only mute WHILE the button is being pressed.



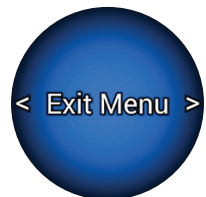
FIRMWARE VERSION

Displays the current firmware version.



EXIT MENU

To exit the setup menu, navigate to this screen and PRESS the Rotary Knob.

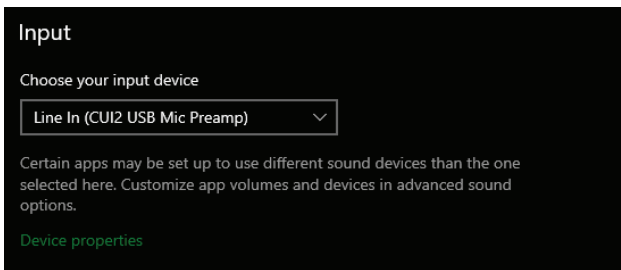


CONNECTING TO PC/MAC VIA USB

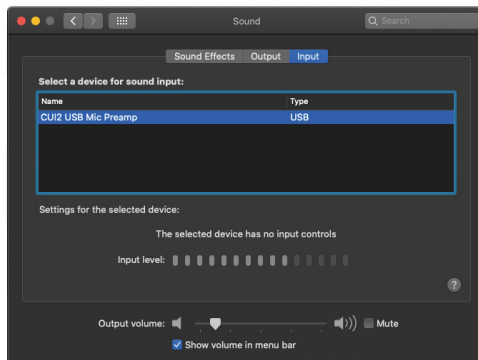
The CUB-33 is a plug and play USB interface. When connected to a Windows PC or Mac computer, the CUB-33 will show up as **CUI-2 USB Mic Preamp**, a single channel input device.

Launch Windows Sound panel (on a Windows PC) or Sound from System Preferences (on a Mac computer) to verify the CUB-33 has installed properly.

To adjust the gain of the microphone, use the gain Microphone Gain setting on the CUB-33 as described in the configuration setup section.



Windows



Mac OS

USE THE VU MODE TO SET GAIN

With the Button Mode set to VU ON, the LEDs will appear green when a signal is present, yellow when a signal is near clipping, and red when the signal is clipping.



In VU mode, speak into the microphone(s) at a slightly elevated speech level. Set the microphone preamp gain so the signal is mostly green with infrequent peaks into yellow during louder speech testing. You do not want to see any Red.

Once the gain is set properly, exit the setup menu.

VERIFY STREAMING AND GAIN LEVELS VIA USB

After you have adjusted the gain on the CUB-33, verify that it is passing the signal to a Windows or Mac PC. Connect the CUB-33 to a Windows or Mac PC.

Launch Windows Sound panel (on a Windows PC) or Sound from System Preferences (on a Mac computer). Verify that the input level is satisfactory.

USING THE CUB-33

The CUB-33 is simple to use. Once you start your videoconferencing software, ensure that the CUI-2 Microphone is selected as the Microphone or input source.

When the microphone icon on the CUB-33 Touch LCD screen shows green (or whatever you have selected as the UNMUTED COLOR in the Setup), the microphone is transmitting.

Press the microphone icon “button” on the Touch LCD screen to mute audio. This will MUTE the CUB-33 on the device itself and no audio will be sent to your software.

If you are using Zoom, the CUB-33 will send a message to the software and your audio will be muted BOTH from the device AND in the software.



Default UNMUTED color. The CUB-33 is passing audio to your software.



Default MUTED color. The CUB-33 is NOT passing audio to your software.

MICROPHONE PLACEMENT

Optimizing the position of your microphone is key to reducing unwanted room noise for videoconferencing and voice conferences. Lower noise will improve intelligibility and sound quality. In a home office installation, consideration must be made for noise such as:

- AC unit
- Natural room reverb
- Computer fan noise
- Mechanical keyboard noise
- Dog barking
- Kids playing/screaming

Please keep the directionality of your microphone in mind when placing the microphone on your desk.

Another factor to keep in mind with noise is proximity: the closer to the noise source you are, the louder it will be. The CUB-33 gooseneck will help to aim the microphone toward you while rejecting keyboard noise.

Optimal microphone placement is around 12-18 inches from your mouth. If you place the microphone further you will pick up more room reflections, and room noise. Mics placed closer than 12 inches may distort.

While there are amazing digital noise suppression features in your favorite conferencing software (Zoom, Teams, etc.) or third party noise suppression software (RTX Voice) to filter out noise digitally, the best results will be found by reducing your noise at the source with the help of optimized microphone positioning techniques.

Please note that the CUB-33 microphone should be kept at least 2 inches away from other objects to maintain rear noise rejection. Any directional microphone placed closer than 2 inches from a surface will become omnidirectional and lose its rear noise rejection.

APPLICATION EXAMPLES

The CUB-33 is an ideal videoconferencing microphone. Use it with any videoconferencing software that allows for a USB microphone.



Gooseneck positioned in front of mouth for voice calls.



Gooseneck positioned to be out of screen view for easy video conference viewing.

SPECIFICATIONS

MICROPHONE & AUDIO SPECIFICATIONS	
Gain	Variable (0-50dB)
EIN	-123dBu
System THD+N	0.005% at any gain, input signal 3dB below maximum
Frequency Response	50Hz - 18kHz
Polar Pattern	Cardioid
Sensitivity	-37dB +/- 3dB at 1 KHz (0dB=1 V/Pa)
GENERAL SPECIFICATIONS	
Gooseneck Length	300mm (11.8")
Gooseneck Type	Condenser (back electret)
Power Consumption (USB type B)	2W
Application	Designed to be used with a computer with available USB port for videoconferencing and Live broadcast
Finish	Satin Black
Packaged Weight	1.34kg (2.95lbs)
Unit Weight	0.75kg (1.65 lbs)
Max Product Dimensions (Includes Mic)	Length: 15.1cm (5.95") Width: 9.7cm (3.80") Height: 34.3cm (13.50")
Max Product Dimensions (Excludes Mic)	Length: 15.1cm (5.95") Width: 9.7cm (3.80") Height: 13cm (1.70")
Packaged Dimensions	Length: 40.5cm (15.95") Width: 22.5cm (8.80") Height: 13cm (5.30")
Shaft Diameter	8mm (.31in)

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