



HamiltonBuhl® Portable Podcast Mixer Production System Manual



Model: PCASTM2

HamiltonBuhl® Portable Podcast Mixer Production System

Description

The HamiltonBuhl®/Maona Portable Podcast Mixer Production System (PCASTM2) features dual XLR microphone inputs with dedicated controls for two-person recording, a direct monitor switch, and two mute buttons to further improve user experience and streamline workflows. It supports Bluetooth, AUX-In, and music instruments for background music, and also includes eight programmable soundpads to enhance content creativity. Whether you're an experienced podcaster, streamer, musician, or content creator exploring the world of audio, this is your ultimate companion.

Product Features

- Dual XLR microphone input for two guests
- Instrument and AUX input to enrich your content
- +60dB Powerful microphone preamp
- Independent microphone and accompaniment volume control
- Side chain feature to emphasis vocal
- Advanced noise cancelling algorithm to reduce ambient noise
- Two analog and one USB outputs stream to multiple devices
- USB-C for easier connection with computer and charging
- Compatible with Windows and macOS
- Built-in Battery, up to 8 hours of off-grid operation

Applications

Recording, Podcasting, Streaming, and Gaming on computers, tablets, and smartphones. Compatible with mainstream recording and streaming software.

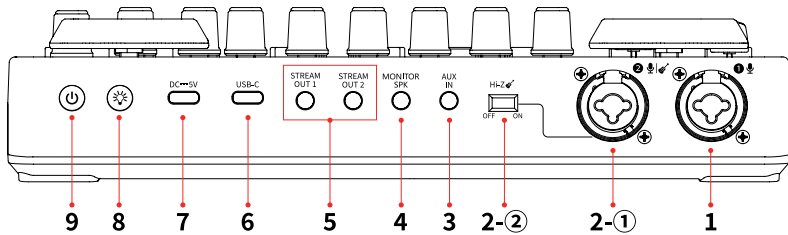
Specifications

- +48V Phantom power support for XLR condenser Microphone
- 12 levels auto-tone control more accurate vocal

Data Transmission	USB-C
Frequency Response	20Hz-20kHz
THD	THD<0.05% 1kHz
Headphone Output	20mW, 32Ω (1kHz, THD+N=1%)
Sample Rate	44.1kHz/48kHz, 16bit
Wireless Connection	Bluetooth 4.2

Battery Type	Li-Polymer
Battery Capacity	2000mAh
Charging Current	5V/2A
Charging Time	Approx. 3 hours
Battery Life	Appr. 8h (Highest keypads brightness)
Dimension	L24.5 x W15.7 x H5.5cm (button included)

Layout



1. XLR Input 1 (Microphone Input)

Input 1 accepts XLR or ¼" (6.35mm) plug microphone input.

Please turn on the corresponding 48V phantom power switch (13) for condenser microphones.

2. XLR Input 2 (Microphone and Instrument Input) and High-Z Switch

Input 2 accepts XLR microphone or ¼" (6.35mm) plug instrument input.

Please turn on the corresponding 48V phantom power switch (13) for condenser microphones or switch the High-Z switch to ON for instrument level devices.

3. AUX-In

Connect external audio sources for easy playback of background music during streaming and recording through an 3.5mm TRS to TRS audio cable.

4. 3.5mm Line Out

It can be used to connect to a powered speaker or other audio device. It requires a 3.5mm TRS to TRS cable.

5. 3.5mm TRRS Stream Out

This interface connects to a smartphone with a headphone jack for recording or streaming purposes. It requires a 3.5mm TRRS to TRRS cable.

6. USB-C Data

Supports data transfer with PC and mobile devices.

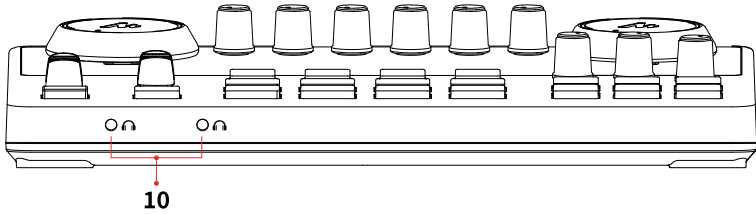
When connecting with a mobile device, It requires your mobile device to support the standard UAC (USB Audio Class) protocol. Additionally, certain smartphone models can be charged when this mixer is connected to an external power supply.

Note:

- (1) Android phones need to support the USB host (OTG) feature and have it enabled.
- (2) iPhones with a Lightning connector require a Lightning to USB Camera Adapter from Apple in order to connect to the unit.

7. DC=5V Interface

This interface only provides power and charging. When using a compatible mobile device, you can connect an external power supply to power both the mobile device and the mixer. Please use a power adapter rated at 5V=2A.



8. Backlight Switch

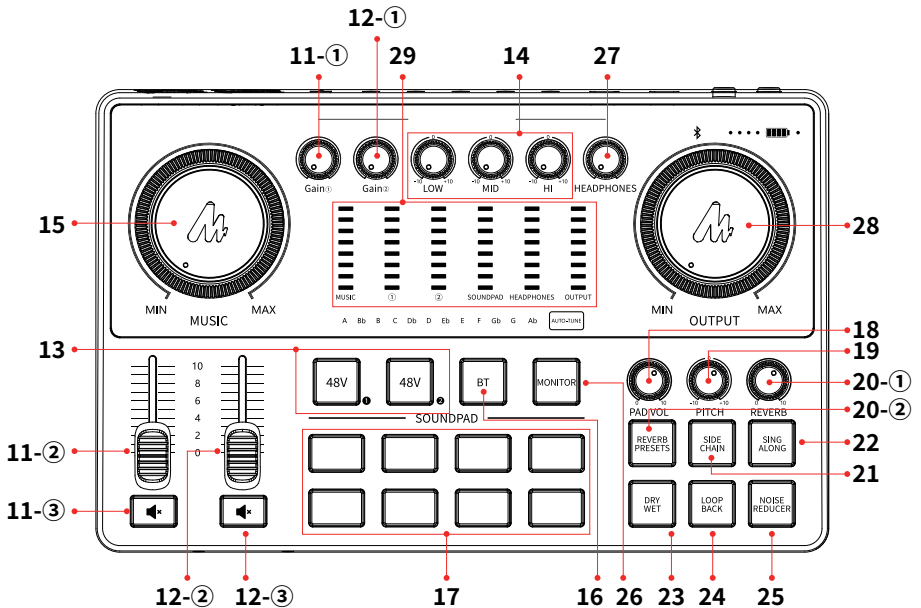
To turn on/off the button backlights, hold the power button for more than 1 second. When the light is off, function buttons remain functional.

9. Power On/Off

To turn on/off the device, hold the power button for 3 seconds.

10. 3.5mm Headphone Jacks

Connect your headphones or headsets with a 3.5mm TRS or TRRS plug. Please note that the microphone input of the headset is not supported. The two jacks are located on the front side of the device.



11/12. XLR Input Gain Knob ①, Fader ②, and Mute ③

First, rotate the gain knob to the left and right to control the input gain.

Then, slide the fader to control the volume level.

The Level Meter Display (29) indicates the signal level, with red indicating peaking, which may result in distorted audio.

Note:

1. Keeping the gain low will reduce the amount of environmental noise being recorded.
2. To achieve the best audio quality, please keep the level meter in the green and orange sections.

13. 48V Phantom Power Switches

Please push down the corresponding 48V switch for condenser microphones, as they typically require phantom power to function properly. It's important to note that turning on phantom power when it's not needed may cause damage to your microphone. If you're unsure about the type of microphone you have, it's best to contact the manufacturer for confirmation.

14. Equalizer

Equalizer adjusts the frequency response of the microphone and instrument inputs, allowing you to boost or cut specific frequencies to enhance or modify the sound.

15. Music Level

To control the level of audio input from 3.5mm AUX-In and Bluetooth sources, simply rotate the knob.

For more precise control, we recommend using only one type of input at a time.

16. Bluetooth Button

To enable or disable Bluetooth connectivity, long-press the Bluetooth button. When Bluetooth is in pairing mode, the backlight will flash. Once successfully connected, the backlight remains solid. Bluetooth is used for audio playback only.

17. Soundpads

This system provides users with eight custom sound effect buttons. Users can record their favorite songs, music, beats, and other sound clips into the device using the microphone, external audio accompaniment, or Bluetooth input for live broadcasting and recording purposes. Each button can record sound effects for approx. 20s.

Note: The mixer does not have preloaded custom sound effects and needs to be recorded by the user first.

17a. Erasing existing sound effects

Press and hold any of the previously recorded custom keys for more than 3 seconds. During this time, the LED indicator will turn on and flash quickly, indicating that it has entered the recording erasing state.

The light will go out when the erasing is completed.

17b. Sound effect recording

Regardless of whether there are special effects stored in the custom keys or not, the previously recorded special effects must be erased first. To do this, short press the corresponding custom key for erasing, and the light will flash slowly, indicating that it is in the recording state. The light will go out when the recording is completed. During the recording process, short press the corresponding custom key to stop the recording.

Note: Each custom key has limited storage space. When the memory of a specific custom key is full, the unit will automatically stop recording. At this point, the light will automatically go out.

17.c Playing custom sound:

Short press any of the previously recorded custom keys to start playing the recorded sound clips. The LED indicator will remain on until the playback is completed. During playback, you can short press to stop the playback.

18. Soundpads Level

Control the volume level of soundpads

19. Pitch Knob

Control the pitch effect. Keep the knob pointed to the midpoint to turn off the pitch effect.

20. Reverb Knob ① the Reverb Presets ②

The knob controls the strength of the pitch effect. Turn it all the way to the left to turn off the reverb. Alternatively you can use the reverb presets.

21. Sidechain

The SideChain features automatically lowers the volume of background music when you start to speak, highlighting your voice in streaming and podcasts.

22. Sing Along

This feature has two modes: Sing Along mode and Music Only mode. Short press once for Sing Along and short press for the second time to enter Music Only.

In Sing Along mode, the vocals will be removed from the music that is played through the USB-C and 3.5mm stream output. This allows you to sing along with the music without the original vocals. However, please note: in Sing Along mode, the vocals won't be removed in your headphones, so you'll still hear them.

In Music Only mode, the vocals will be removed not only from the USB-C and 3.5mm stream output but also from your headphones. This mode is for those who want to listen to the music without any vocals, creating a "music-only" experience. It's important to keep in mind that this feature may not work perfectly with all types of music. There may be certain songs or genres where the vocal removal may not be optimal.

23. Dry/Wet Recording

"Dry recording" refers to recording the sound without any added effects such as reverb or pitch correction. Only the raw, untreated sound will be recorded. On the other hand, "wet recording" includes the applied audio effects. By default, the device is set to wet recording.

24. Loopback

If the Loopback feature is enabled, the USB playback will be sent back to the USB connected device: if it is disabled, the USB playback can be heard through the headphones, but will not be recorded. Turning off this feature can avoid unwanted echoes.

25. Noise Reducer

Reduce background noise during recording by using this feature. Short press to activate low noise cancellation, press again for high noise cancellation, and press a third time to turn off noise cancellation. The LED indicator displays the current status.

26. Direct Monitoring Switch

You can easily control the monitoring feature by toggling it on or off. If you prefer not to hear the real-time monitoring of the microphone and instrument input, simply press the button to disable the direct monitoring feature.

27. Headphones Level

28. Output Level

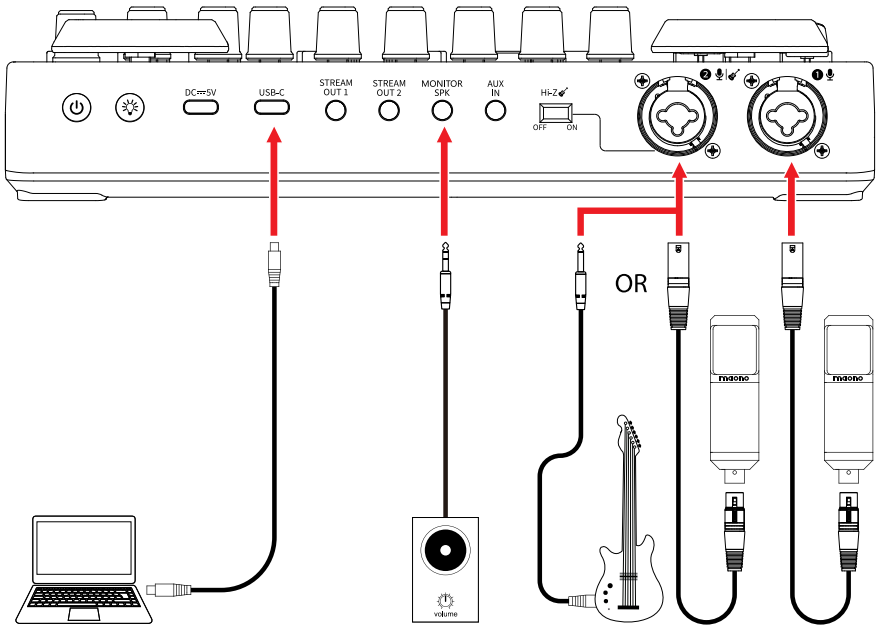
Controls the level of USB-C (6) and 3.5mm TRRS (5) outputs.

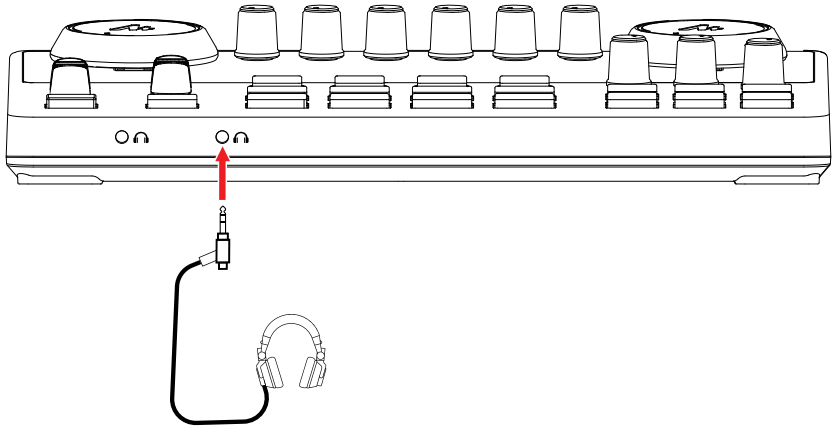
29. Level Meter Display

The level meter display indicates the signal level. To achieve the best audio quality, keep the level meters of XLR input 1 and 2 in the green and orange sections. If the level meter turns red, it means peaking, which may result in distorted audio.

Setup Guide

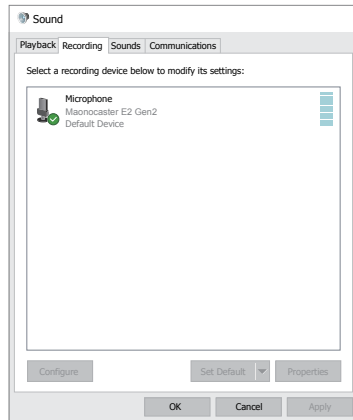
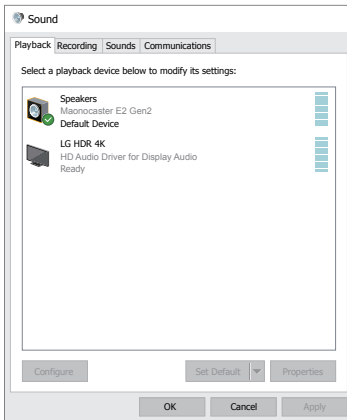
1. PC Connection



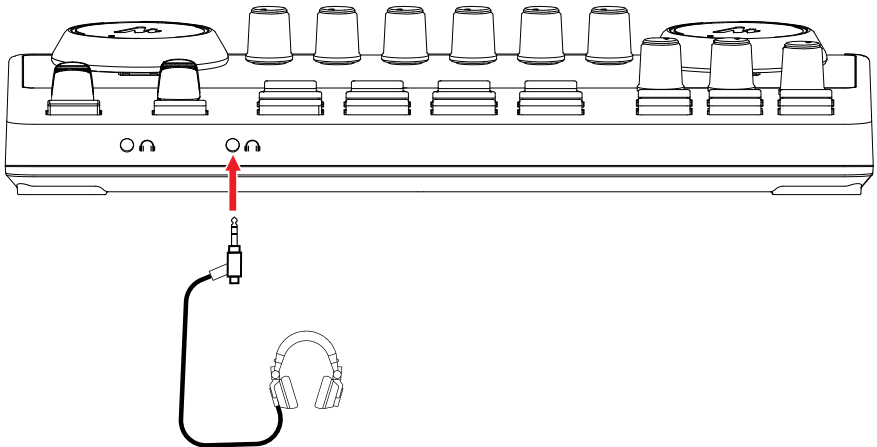
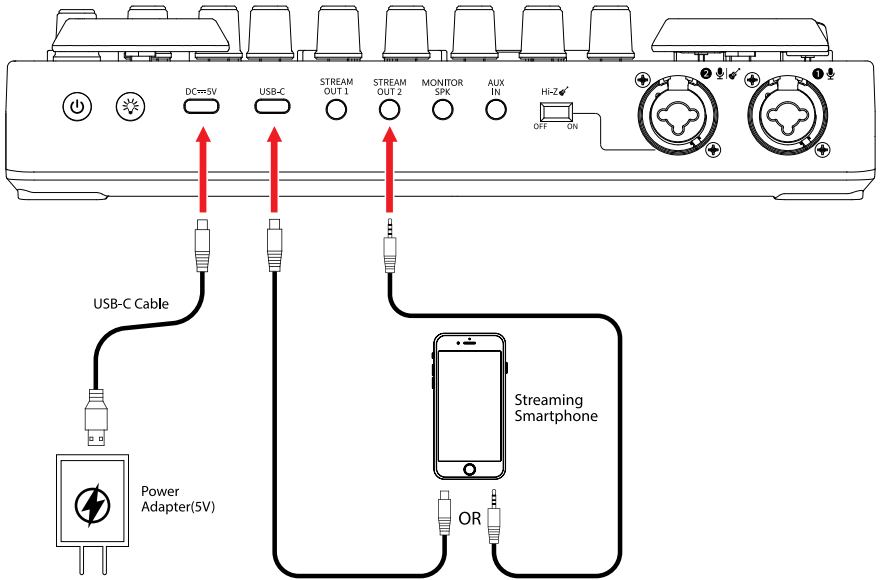


1. Connect your microphones, headphones, and any other required devices as shown in the above diagram.
2. Use the provided USB-C data cable to connect the mixer to your computer. Once connected, the computer will automatically detect the device and install the necessary driver.
3. Access the sound settings on your Windows or macOS computer. Set the "Maonocaster E2 Gen2" as the default output and input device.
4. Check the settings or preferences of your streaming or recording software. Confirm that "Maonocaster E2 Gen2" is selected as the default audio input and output device.

Tip: Connecting your Gaming PC's audio output to AUX port with a 3.5mm TRS cable then connecting your Streaming PC with USB-C will allow a Dual PC streaming setup.



2. Smartphone or Tablet Connection



1. Connect your microphones, headphones, and any other required devices as shown in the diagram on the previous page.
2. Use the provided USB-C to USB-C data cable or a 3.5mm TRRS to TRRS cable to connect the mixer to your smartphone or tablet.
3. Connect an external power adapter rated at 5V=2A if you need continuous power.

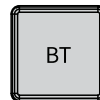
Note:

1. If your phone has no 3.5mm headphone jack, it is essential to use the official USB-C to headphone adapter provided by your phone's manufacturer.
2. To connect the unit via USB, your mobile device needs to support the standard UAC (USB Audio Class) protocol. Android phones must support and enable the USB host feature. iPhones with a Lightning connector need Apple's Lightning to USB Camera Adapter to connect to the mixer.
3. Select smartphone models can be charged when the mixer is connected to an external power adapter.
4. You can record or stream to two smartphones if you utilize both USB-C output and 3.5mm TRRS output.

3. Bluetooth Connection

This mixer supports Bluetooth music playback. Please follow these steps to connect and play music:

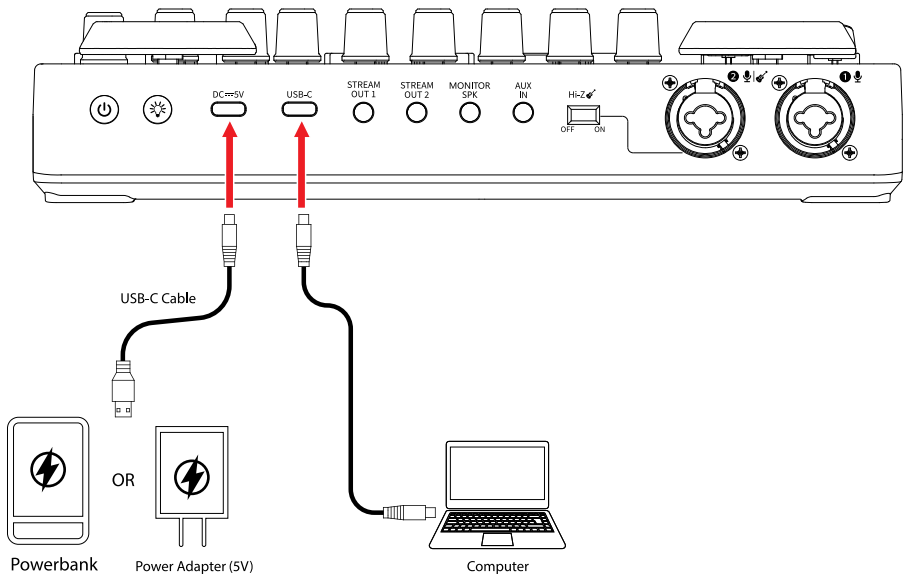
1. Turn on the unit. The background light of the Bluetooth button will start flashing.
2. On your phone, go to the Bluetooth menu and search for devices. Look for the Bluetooth device named "Maonocaster E2 Gen 2" and select it to establish a connection.
3. Once your phone is connected to the mixer, the Bluetooth light will stop flashing.
4. Play your desired music on your phone.
5. Open your favorite app to begin recording or streaming.



Notes: The Bluetooth feature is solely for music playback and cannot be used for other purposes.

4. Charging

1. Before using the device for the first time, please ensure it is fully charged.
2. To power and charge the device, use a USB-C cable to connect the DC=5V port to a power adapter rated at 5V=2A or a power bank.
3. It is important to stop charging once the battery is full to prevent overcharging.
4. If you are not using the device frequently, it is recommended to charge it at least every three months to maintain battery health.



Troubleshooting

Cannot boot

- Check if the podcast console has power, please charge it and then turn it on.
- You need to long press the power button for more than three seconds to turn it on.

No sound from accompaniment music

- Check whether the external audio source is connected to the accompaniment interface of the podcast console.
- Check whether the accompaniment volume control knob on the right is turned on.
- Check the volume of the accompaniment device.

No sound from headphones

- Please check whether the headphone cable is inserted into the correct interface. It should be inserted to the "headset" or "sound" interface.
- Please check whether the "monitor fader" of the sound card upwards. You can gradually increase the volume by sliding it up.

No sound from the microphone

- Please check whether the microphone is correctly connected to the microphone interface. If not, please try again.
- Please check whether the microphone knob on the left is turned on. Turn the knob clockwise to increase the microphone volume slowly.

PRODUCT REGISTRATION

Visit www.HamiltonBuhl.com

1. Click on Customer Care
2. Click on Product Registration
3. Please fill out all fields marked with * to register your product.



WARRANTY

Warranty begins the date item ships from our warehouse. All products have a one year warranty from original date of shipment, unless otherwise noted. Warranty covers defects due to material or manufacturing workmanship issues only.



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