



MVX2U GEN 2

MVX2U Gen 2 Digital Audio Interface

Online user manual for the MVX2U Gen 2 XLR to USB digital audio interface
Version: 0.2 (2026-C)

Table of Contents

MVX2U GEN 2 MVX2U Gen 2 Digital Audio Interface	3	Recording Tips	14
Important Product Information	3	Control your Levels	14
IMPORTANT SAFETY INSTRUCTIONS	3	Find the Sweet Spot	14
WARNING	4	Monitor Your Sound	14
Information to the user	4	How to Avoid Plosives When Recording	14
General Description	5	Limit Device Types	14
Features	5	Close Unused Apps	14
MVX2U Inputs and Outputs	5	Keep equipment connected during updates	14
LED Indicator Status	6	Mounting Instructions	14
Quick Setup	6	Troubleshooting	14
The MOTIV Mix Recording App	6	MOTIV Mix Troubleshooting	15
Features	7	MVX2U Troubleshooting	15
Quick Setup with MOTIV Mix	7	Additional Resources	16
Use MOTIV Mix in Compact or Full Mode	7	Firmware Update	16
MOTIV Mix Layout	8	Keep equipment connected during updates	16
Shure Virtual Audio (VAD)	9	Specifications	16
Using MOTIV Mix with your Mac and PC	10	Accessories	18
Your Recordings	12	Furnished Accessories	18
Soundcheck	12	Certifications	18
Enhance	13		

MVX2U GEN 2

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Important Product Information

IMPORTANT SAFETY INSTRUCTIONS

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Allow sufficient distances for adequate ventilation and install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as open flames, radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place any open flame sources on the product.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. 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, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
16. The MAINS plug or an appliance coupler shall remain readily operable.
17. The airborne noise of the Apparatus does not exceed 70dB (A).
18. Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
19. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.
21. Operate this product within its specified operating temperature range.

	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

WARNING

LISTENING TO AUDIO AT EXCESSIVE VOLUMES CAN CAUSE PERMANENT HEARING DAMAGE. USE AS LOW A VOLUME AS POSSIBLE. Over exposure to excessive sound levels can damage your ears resulting in permanent noise-induced hearing loss (NIHL). Please use the following guidelines established by the Occupational Safety Health Administration (OSHA) on maximum time exposure to sound pressure levels before hearing damage occurs.

90 dB SPL at 8 hours	95 dB SPL at 4 hours	100 dB SPL at 2 hours	105 dB SPL at 1 hour
110 dB SPL at ½ hour	115 dB SPL at 15 minutes	120 dB SPL Avoid or damage may occur	

Information to the user

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause interference with radio and television reception.

Notice: The FCC regulations provide that changes or modifications not expressly approved by Shure Incorporated could void your authority to operate this equipment.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Canada, ISED Notice

Notice: The Industry Canada regulations provide that changes or modifications not expressly approved by Shure Inc. could void your authority to operate this equipment.

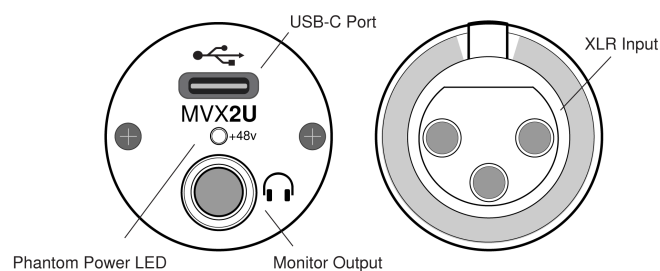
General Description

The Shure MVX2U Gen 2 Digital Audio Interface is a single-channel XLR to USB adapter for professional quality audio recording or streaming on desktop, tablet, or any USB-C mobile device using any XLR microphone. Compact and mobile-friendly, the MVX2U achieves exceptional definition and clarity in imperfect audio environments with built-in digital audio processing that includes Auto Level Mode, Real-time Denoiser, and Digital Popper Stopper. Provides up to 60 dB of gain and 48 V phantom power for dynamic and condenser XLR microphones.

Features

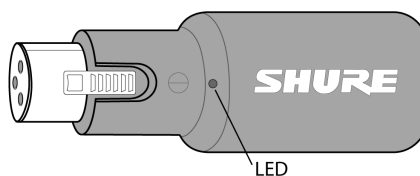
- Connect, Record, Create with any XLR Microphone on any Device
- Convenient Mobile Plug-and-Play Operation
- Durable, Versatile Design
 - USB connector allows XLR microphones to be used for digital recording
 - Rugged, all-metal construction for outstanding reliability
- Studio Quality Audio with DSP Features (Auto Level Mode, Digital Popper Stopper™, Real-time Denoiser)
- Zero Latency Monitoring
- USB-C Powered, no external power supply needed
- Compatible with Windows and Mac computers, iOS and Android Mobile Devices.

MVX2U Inputs and Outputs



- **USB-C port:** Use the included USB-C cable to send and receive audio from your computer or recording device.
- **Phantom Power LED:** LED indicates whether Phantom Power is on or off.
- **3.5mm monitor output:** Connect to headphones or earphones for zero-latency direct monitoring.
- **XLR input:** Connect your microphone directly to the MVX2U or with an XLR cable.

LED Indicator Status

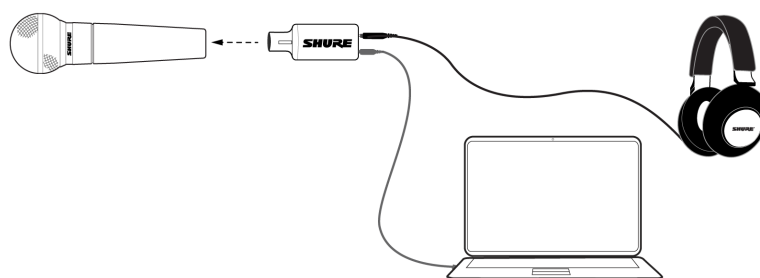


LED	Status
Green	USB connection is made
Amber	USB connection has failed
Amber Flashing	Firmware update is in progress
Red	MVX2U has been muted
Off	No connection

Note: Upon first connection, LED is amber and turns green once the device is ready.

Quick Setup

1. **Begin by connecting your audio equipment.** Plug your microphone into the MVX2U XLR connector directly or with an XLR cable.
2. **Connect the MVX2U to your computer with the USB-C cable.** The MVX2U LED will glow amber when the connection is made and then turn green when the mic is ready to use.
3. **Plug your headphones into the monitor output.**
4. **Check audio levels and adjust microphone settings as needed.** Adjust microphone for worry free recording.



The MOTIV Mix Recording App

Use the MVX2U with the Shure MOTIV Mix recording app for flexible control over microphone settings. MOTIV Mix allows you to record professional-quality audio with any microphone and provides up to 5 channels for recording, monitoring, mixing and streaming. It is ideal for close mic applications that require vocal intelligibility with a balanced tone. Customize your sound with DSP, gain control, compression, limiting, equalization and tone.

Features

- **Convenient Plug-and-Play Operation** Compatible with Windows and Mac computers.
- **Flexible Recording Control** The MOTIV Mix app manages up to 5 channels of audio for microphone settings, monitoring, recording and streaming.
 - Dark theme for low-light recording situations
 - Five band equalizer
 - Up to 8 hours of record time in 32-bit, 48kHz resolution
- **Virtual Audio Driver (VAD)** The Virtual Audio Driver (VAD) allows your computer to receive audio input from a variety of sources, like audio from music apps such as Apple Music and Spotify.

Quick Setup with MOTIV Mix

1. **Use the USB-C cable to connect a MOTIV device or microphone to your computer.**

The LED panel on the MOTIV device will pulse when the connection is made.

2. **Download the MOTIV Mix application at <http://www.shure.com/MOTIVMix>.**

Your computer may request permission to use the external device the first time the app is opened.

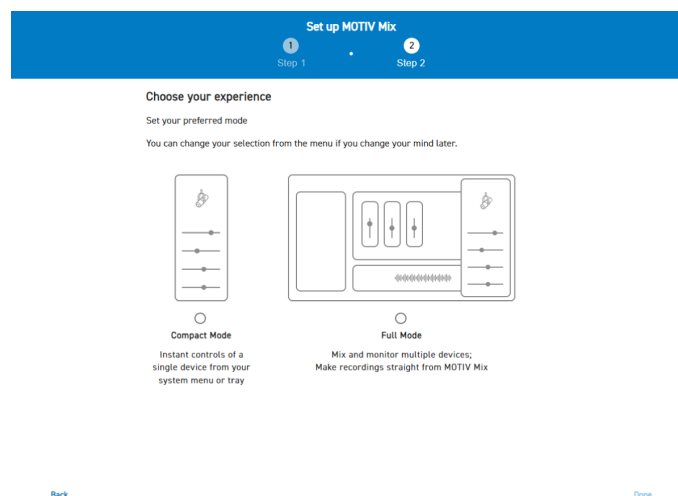
3. **Select your microphone from the Sources panel.**

Access customized controls for your MOTIV microphone via the settings gear icon  in MOTIV Mix.

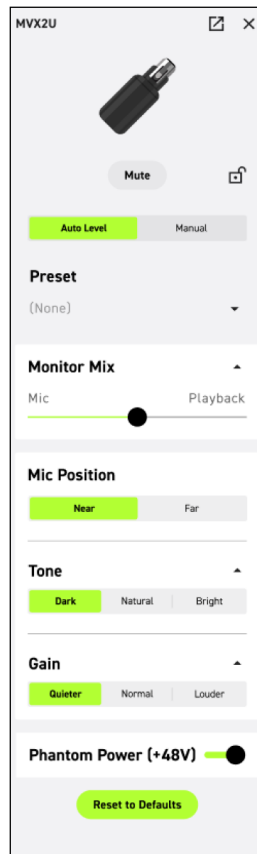
Note: Choose whether MOTIV Mix launches during PC startup. Find this setting in Preferences > General or use the Task Manager to add MOTIV Mix.

Use MOTIV Mix in Compact or Full Mode

When you first open the application, you have the option of using it in Compact Mode or Full Mode. Full mode uses the full screen to access all of the features of MOTIV Mix as a multi-track recorder and mixer.



Compact mode allows you to use MOTIV Mix as a way to adjust single mic settings while taking up less screen space.



Users can also easily switch between Compact and Full modes by going to Windows menu option while in Full mode, or by clicking the (box w/arrow) icon while in Compact mode.

MOTIV Mix Layout

MOTIV Mix is divided into three main sections.



The Sources column where all available audio sources are listed.



Drag and drop your audio sources into the Mixer to control levels of individual sources as well as the monitor and main volume levels.



The Recorder displays file information, a recording timeline and the Start/Stop record button.

Shure Virtual Audio (VAD)

The Shure Virtual Audio Driver creates a virtual audio device within the operating system that can be used to send and receive audio from a variety of sources into and out of MOTIV Mix. For example, route audio to this virtual sound card from the OS itself or from music apps such as Apple Music and Spotify into a VAD channel to use in your live stream or podcast. This audio can then be mixed with audio from connected external sources, like USB microphones, USB interfaces and audio devices and then output to external speakers or a DAW or recording system. The VAD allows the mixing and routing of internal and external signals into and out of MOTIV Mix for mixing control across all audio sources.

Windows (virtual USB audio device):

1. In the Sources panel, tap MOTIV Mix to add the Virtual Audio Device input channel to the mixer.
2. Tap the Settings cog at the bottom right of this channel.
3. In the panel that appears, tap Open Sound Settings to open Windows Sound Settings.
4. In Windows Sound Settings, find the app audio source that you will use to route audio into MOTIV Mix. Assign the app output to MOTIV Mix Input from the drop down menu.

Audio from your selected app should be audible in MOTIV Mix.

Sending all computer audio to a MOTIV Mix input: Assign MOTIV Mix Input as your computer's audio output device. Windows Start menu > Settings > System > Sound > Output or tap the speaker icon in the taskbar and select MOTIV Mix Input. In MOTIV Mix, add the Virtual Audio Device (MOTIV Mix under Sources) to your Mixer.

Mac (Core Audio virtual device): Open System Preferences > Sound > Output and select MOTIV Mix. This will route all computer audio to the MOTIV Mix Virtual Audio Driver. If it isn't already in your Mix window, add the Virtual Audio Device (shown as MOTIV Mix under Sources) to your Mixer.

Note: If you find that you need to remove the Virtual Audio Driver, use the Uninstaller. Once the driver is uninstalled from the system, be sure to restart your computer before launching MOTIV Mix again to complete the process.

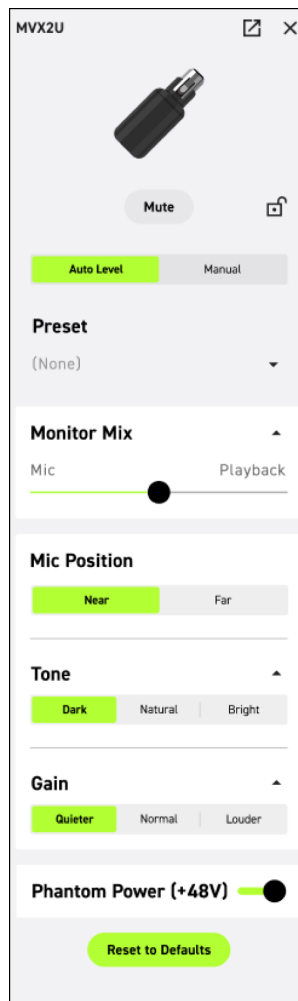
Using MOTIV Mix with your Mac and PC

MOTIV Mix comes with an audio driver and is compatible with most Mac or PCs. The software retains its last settings as configured.

Note: USB-A cable is not included.

Auto Level Mic Setup in MOTIV Mix

MOTIV Mix enables you to change your mic settings to match your application. Auto Level mode automatically adjusts gain in the moment for clear, quality output. For more detailed control of your sound, use Manual mode to customize settings.



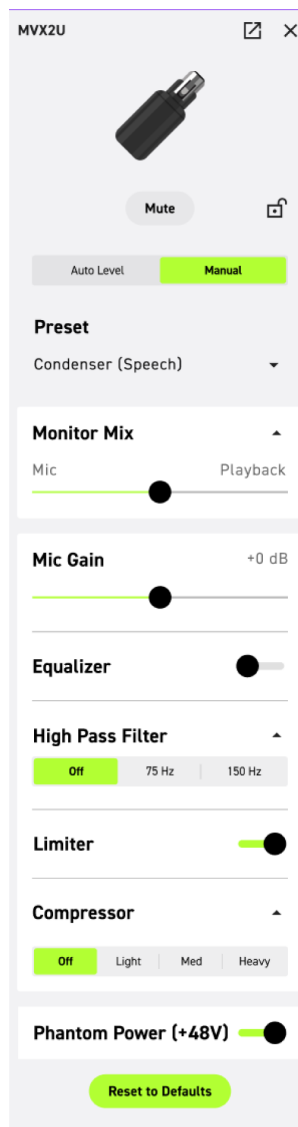
- **Mute/Unmute** Mute and unmute the mic in MOTIV Mix.
- **Mute Lock** Select the lock icon to lock or unlock the microphone mute status. While locked, the microphone will remain muted or unmuted. When Mute Lock is enabled, the mute button will flash red three times when touched.

Mute Lock doesn't persist through a power cycle and will turn off when the app restarts or mic is unplugged and plugged back in.

- **Monitor Mix** Move the sliders to adjust the levels of mic and playback sound sources when monitoring sound in headphones connected to the device.
- **Mic Position** Select the distance, Near or Far, from the sound source to the microphone.

- **Tone** Adjust the tonal qualities of your audio by selecting Dark, Natural or Bright tone. Tone controls a variety of settings to quickly dial in the sound that works best for your voice.
- **Gain** Auto level mode automatically adjusts gain applied to the microphone. Manual mode gives full control over the microphone gain. Use the slider to adjust microphone gain in Manual mode.
- **Phantom Power (+48V)** Toggle on phantom power when using a condenser microphone.
- **Reset to Defaults** Select Reset to Defaults to reset your device to factory settings. This will remove all changes you have made to the device.

Manual Mic Setup in MOTIV Mix



- **Mute/Unmute** Mute and unmute the mic in MOTIV Mix.
- **Mute Lock** Select the lock icon to lock or unlock the microphone mute status. While locked, the microphone will remain muted or unmuted. When Mute Lock is enabled, the mute button will flash red three times when touched.

Mute Lock doesn't persist through a power cycle and will turn off when the app restarts or mic is unplugged and plugged back in.

- **Preset**
- **Monitor Mix** Move the sliders to adjust the levels of mic and playback sound sources when monitoring sound in headphones connected to the device.

- **Mic Position** Select the distance, Near or Far, from the sound source to the microphone.
- **Tone** Adjust the tonal qualities of your audio by selecting Dark, Natural or Bright tone. Tone controls a variety of settings to quickly dial in the sound that works best for your voice.
- **Mic Gain** Manual mode gives full control over the microphone gain. Use the slider to adjust the volume level.
- **Equalizer**
- **High Pass Filter** Reduce unwanted low-frequency rumbling noise with a high pass filter at 75 Hz or 150 Hz.
- **Limiter**
- **Compressor**
- **Phantom Power (+48V)** Toggle on phantom power when using a condenser microphone.
- **Reset to Defaults** Select Reset to Defaults to reset your device to factory settings. This will remove all changes you have made to the device.

Your Recordings

When the recording is finished, the Recordings Saved confirmation will display the file location.

- Tap Show in Folder to open the default location of the recording folder. Or go to “Recorder Settings” for location information. Recordings are sorted by time and date.
- Access the recordings by using the date and time folder. If Main output only is selected in save preferences, there will be one main recording. If Main output + all individual sources is selected, the individual source recordings will appear with the main recording.

Save Preferences

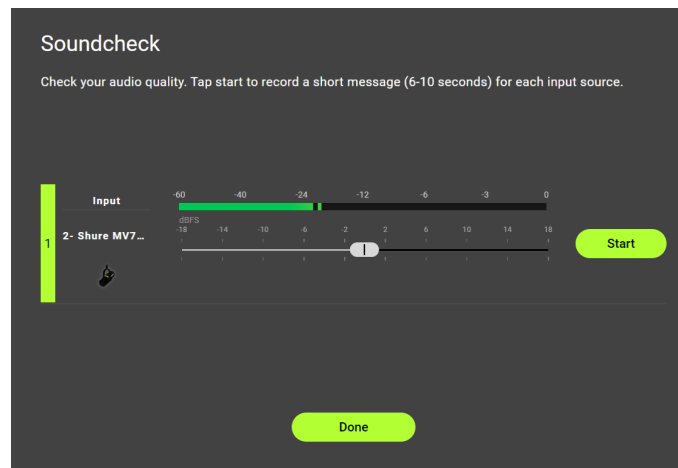
MOTIV Mix will always save your main mix as a single recording, but you have the option to also save individual input sources as separate recordings.

1. **Main Output:** This will save the complete recording in a stereo file. This will save more space by saving a single file.
2. **Main Output plus individual tracks:** This is ideal when you have lots of memory available to save multiple files or when you might need to edit or process one track differently than the other.

You can always access your recording settings by going to the menu bar and selecting MOTIV Mix > Settings... > Recording settings. From here you can select how you are going to save files; Main output only or Main output and all individual sources. Use the save option that best suits your needs.

Soundcheck

The Soundcheck feature allows you to check your audio levels before you start recording. You will record about 10 seconds of audio and Soundcheck will give feedback and make suggestions to help with volume, distance and environmental noise. You then have the opportunity to make fixes to your recording settings and improve the quality of your recording. Ensure that you are using Soundcheck in Manual mode so that you can make adjustments, if needed.



1. Tap the Soundcheck button in the upper right corner of the MOTIV Mix app.
2. The Soundcheck window displays an input meter and gain control. When you are ready, tap Start and a countdown to record will begin. Speak into the microphone.
3. Press the Play button to hear your recorded audio or Retry to begin again. The button will show a red status bar displaying remaining record time.
4. MOTIV Mix will make gain suggestions based on the recording levels.
5. Make adjustments as needed. Retry the test to ensure a strong signal.
6. You are ready to start recording. Tap Done to exit Soundcheck and return to the main record window.

Enhance

Enhance is a quick way to make recordings sound better and more suitable for sharing post-recording. By selecting one of the three levels, (low, medium, or high), you can automatically control loudness, and adjust compression and eq to improve the quality of your recordings.

Low	Best suited for speech recordings
Medium	Best suited for quiet musical content
High	Best suited for loud or amplified musical content

Using Enhance to Improve your Recordings

Go to the Library and right-click on your recorded file. Select Enhance and preview the changes made by the different enhance levels and normalization.

1. Place the playhead (red bar) where you would like the preview to start.
2. Tap Low, Medium and High to hear how your file changes with different enhance levels.
3. Select the level that sounds best and then Save. You can save the file or rename it to create a new file.

Note: Every time the file is changed, you will need to apply Enhance again to process the changed file.

How Does Enhance Work?

By selecting one of the three enhance levels (low, medium, high), a series of post production processing algorithms are applied that are responsive to your material. The amount of processing depends on the level that you have selected. Loudness, compression, soft and hard limiting are applied to all levels. Automatic equalization is applied to the medium and heavy enhance levels. Preview the levels and select the one that sounds the most natural sounding. Save the file with a new name or preserve the original track and create a new enhanced file with a new name.

Tip: Start by applying enhance to a single track. It will be faster to process each file individually. Also, different tracks will have different levels and tones. By processing one file at a time, you can be sure that enhance is getting the best sound out of each track.

Recording Tips

Control your Levels

To ensure consistent volume levels, determine the microphone placement that works best for you and maintain that distance. Record several practice tests to determine the spot where your voice sounds best and background sounds are minimized.

Find the Sweet Spot

Keep the microphone as close as possible (6 - 12 inches) to your mouth to avoid picking up unwanted room reflections and re-verberation.

The point where the mic sounds best is often called the sweet spot. This is usually around 6 - 12 inches (15 - 30 cm) from your mouth.

Monitor Your Sound

To hear your audio with no latency, plug headphones into the headphone output on your MVX2U.

How to Avoid Plosives When Recording

Limit Device Types

For best results, record using devices of the same type. For example, using all USB mics is preferred to mixing USB mics, built-in mics and bluetooth devices in the same recording session.

Close Unused Apps

Limit the number of applications that are open while recording. Keeping multiple audio related applications open while recording in MOTIV Mix may result in recordings that are not in sync. We recommend having only MOTIV Mix open when recording for best results.

Keep equipment connected during updates

Keep the MOTIV device connected to your mobile device when updating to ensure that there are no update issues.

Mounting Instructions

The MVX2U interface fits into a standard A25D mic clip. So you can place it anywhere that you can put a standing or tabletop mic stand.

Troubleshooting

MOTIV Mix Troubleshooting

Issue	Solution
Microphone is plugged in, but not detected.	Unplug and reconnect the cable so that the app recognizes the microphone. You'll know that the connection is made when you see the desktop application display the correct microphone settings.
You hear no audio even though the desktop application is displaying the correct microphone.	Check the Monitor Mix blend. Move the Monitor Mix slider to the center to hear the audio going into the mic and the audio being played back at the same time.
Audio is distorted	If you are using a device with Auto Level Mode, Select Auto Level Mode to allow the software to control audio settings. Audio distortion usually comes from overloading the microphone which causes clipping. Lower your mic gain for the best sound recording.
"Device is in use by another application" error	Ensure that MOTIV App has been closed and uninstalled or that the Shure Update Utility is not running in the background. If the problem persists, try restarting your PC.
Audio sounds higher or lower pitch than normal.	Your microphone and computer have a sample rate mismatch. To adjust your computer sample rate settings, go to the Shure FAQ topic for information on correcting sample rate mismatch. MOTIV Mix sample rate is 48 kHz. Note: Windows update 10 v2004 (April 2020) solves this problem.
Miscellaneous issues	It may be useful to reset the app to restore functionality. Perform a hard reset by unplugging and re-plugging the microphone.
General troubleshooting	Quit and re-start the app. Reboot the computer. Check for firmware update. Tap the three dots in the top right corner and select About MOTIV > Check for Update

Note: We recommend completely uninstalling the MOTIV Desktop App before installing MOTIV Mix for the best experience. And contact Shure Service and Repair if you continue to experience any issues.

MVX2U Troubleshooting

Issue	Solution
Audio is distorted	Audio distortion usually comes from overloading the microphone which causes clipping. Lower your mic gain for the best sound recording. Check that the all cables are correctly and completely connected. If listening through headphones, check the connection or try using a different pair.

Issue	Solution
General troubleshooting	Disconnect and reconnect the MVX2U. Quit and re-start the app. Reboot the computer.

Note: Contact Shure Service and Repair if you continue to experience any issues.

Additional Resources

- [Shure Knowledge Base FAQs](#)
- [Training from the Shure Audio Institute](#)
- [Microphone Techniques for Recording](#)
- [Houses of Worship Systems Guide](#)
- [Shure Performance & Production YouTube channel](#)
- [Shure Creators YouTube channel](#)

Download Shure Software

- [Software and firmware archive](#)

Firmware Update

Take advantage of additional features and design enhancements by updating the firmware when prompted. A notification will appear when a firmware update is available. You have the option to download the update immediately or at a later time.

To access firmware update at a later time, select **Help > Check for Update**. If the available firmware package is newer than the current version, you can install the firmware. Contact Shure Service and Repair if you experience any issues.

Keep equipment connected during updates

Keep the MOTIV device connected to your mobile device when updating to ensure that there are no update issues.

Specifications

Frequency Response

20 Hz to 20,000 Hz

Input Impedance

(@ 1 kHz)

5.8 kΩ

Maximum Input Level

7 dBV

Digital Noise Floor (20 Hz to 20 kHz, A-Weighted)

-105 dBFS

Minimum MIC GAIN setting

0 dB

Maximum MIC GAIN setting

60 dB

Adjustable Gain Range

(0.5 dB/step)

0 dB to 60 dB

Headphone Output

3.5 mm (1/8 inch) 20 mW @ 32Ω

Weight

100g (3.5 oz.)

MFi Certified

Yes

Housing

All metal construction

Power Requirements

Powered through USB connector

Phantom Power Supply

48V, 7 mA

Max. Current Draw through USB

160 mA

Operational Temperature Range

-5 to 40°C (23 to 104°F)

Storage Temperature Range

-29 to 74°C (-20 to 165°F)

Bit Depth	Sampling Rate
24 kHz	44.1 kHz
16 kHz	44.1 kHz
24 kHz	48 kHz
16 kHz	48 kHz

Accessories

Furnished Accessories

1 m USB-C to USB-C cable	95D52640
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Certifications

Conforms to electrical safety requirements based on IEC/EN 62368-1.

CE Notice

Hereby, Shure Incorporated declares that this product with CE Marking has been determined to be in compliance with European Union requirements.

The full text of the EU declaration of conformity is available at the following site: <https://www.shure.com/en-EU/support/declarations-of-conformity>.

UKCA Notice

Hereby, Shure Incorporated declares that this product with UKCA Marking has been determined to be in compliance with UK-CA requirements.

The full text of the UK declaration of conformity is available at the following site: <https://www.shure.com/en-GB/support/declarations-of-conformity>.

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

Waste Electrical and Electronic Equipment (WEEE) Directive



In the European Union and the United Kingdom, this label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

Please consider the environment, electric products and packaging are part of regional recycling schemes and do not belong to regular household waste.

Registration, Evaluation, Authorization of Chemicals (REACH) Directive

REACH (Registration, Evaluation, Authorization of Chemicals) is the European Union (EU) and the United Kingdom (UK) chemical substances regulatory framework. Information on substances of very high concern contained in Shure products in a concentration above 0.1% weight over weight (w/w) is available upon request.

