nativeKONTROL
ME_Ohm64 User Manual

Version 1.0.5

CHANGES IN THIS VERSION

General Changes:

- Create Troubleshoot Log will now delete Live's Log.txt after generation.
- Live script transfer will now remove old Live scripts before transferring new versions.

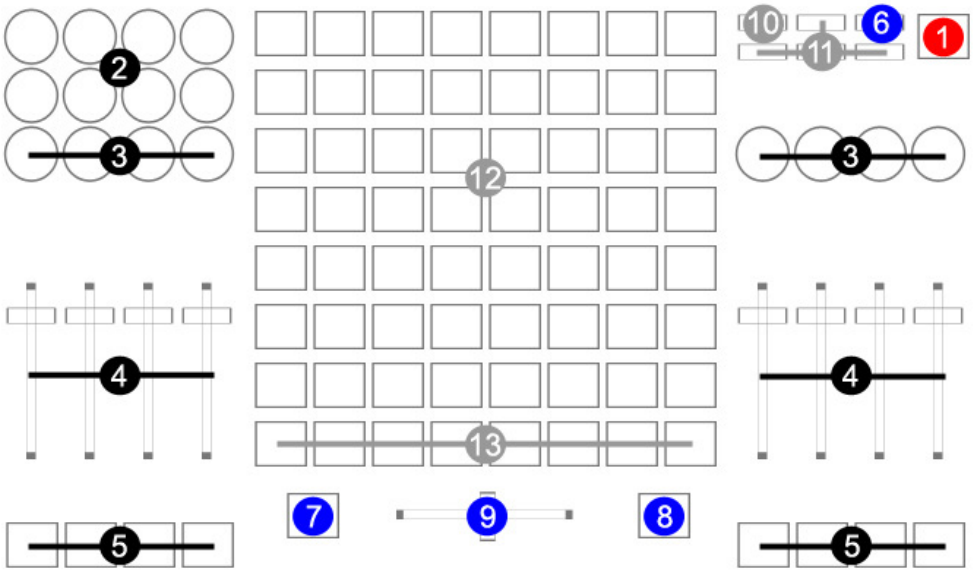
1 GENERAL CONCEPTS

ME_Ohm64 consists of two primary parts; the ME_Ohm64 application itself and the ME_Ohm64 MIDI Remote Script for Live. Both ME_Ohm64 and Live need to be running and set up correctly in order for ME_Ohm64 to do its job. Information on the settings you need to make in both ME_Ohm64 and in Live is provided in the Midi Preferences window, which you can access via View – *Show Midi Preferences*. The Ohm64 also needs to be connected/turned on.

In a nutshell, ME_Ohm64 allows you to create/edit presets that dictate the behavior of the Ohm64 as well as the operation of the associated ME_Ohm64 MIDI Remote Script. This allows you to create presets with different types of functionality (a performance preset, a studio preset, etc) that you can switch between on-the-fly. ME_Ohm64 keeps things as open as possible to allow you to create presets that fit your needs. It merely defines a General Layout, everything else is up to you.

1.1 General Layout

ME_Ohm64 separates the controls on the Ohm64 into groups of control types.



SHIFT BUTTON (1)
This is a button that is used to modify the behavior of other controls much like the Shift key on your computer's keyboard.

MIX CONTROLS (2 – 5)
These are groups of 8 controls, each of which can have 8 assignments that are accessed via Mix Mode selection. These controls are further separated into sub-groups.

- *ENCODERS (2 – 4)* – Groups of 8 encoders/faders/knobs.
- *BUTTONS (5)* – Groups of 8 buttons. These buttons also access some additional functionality when the Shift Button is pressed.

GLOBAL CONTROLS (6 – 9)
These are a group of a variable number of controls, each of which can have 2 assignments; a default assignment and a Shifted assignment that is accessed when the Shift Button is pressed. The controls are further separated into sub-groups.

- *BUTTONS (6 – 8)* – Group of variable number of buttons.
- *ENCODERS (9)* – Group of variable number of encoders/faders/knobs.

OTHER CONTROLS (10 – 13)
These are controls that are not modified by ME_Ohm64. These controls have a fixed assignment.

1.1a Additional Mix Button Functions

When the Shift Button is pressed down, the Mix Buttons access some additional functions.

LOWER BUTTONS (5) – Select Mix Mode 1 – 8.

1.1b Other Control Functions

UPPER BUTTON 1 (10) – This button will toggle the function of the Main Matrix and Bottom Matrix Row between launching/stopping Clips and User Modes (see Special Functions below).

UPPER BUTTON 2/4/5/6 (11) – These buttons will move the Grid Selector (aka red ring) up/left/down/right respectively, which selects the 8 Tracks and Scenes to control, by an increment of 1. When the Shift Button is pressed down and User Modes are **not** selected, these will move the Grid Selector by an increment of 8 (Tracks) and 7 (Scenes).

MAIN MATRIX (12) – These can either be used for launching the Clips outlined by the Grid Selector or for playing instruments and/or MIDI mapping in User Modes (see Special Functions below).

BOTTOM MATRIX ROW (13) – These can either be used for stopping the Tracks outlined by the Grid Selector or for switching between User Modes (see Special Functions below).

1.1c Special Functions

When **Upper Button 1** is **Off**, the Main Matrix will be assigned to launching Clips. The LED feedback the Main Matrix provides works as follows:

Unlit – No clip loaded
Lit – Clip loaded, but not playing
Flash slow – Clip playing
Flash fast – Clip waiting to play

The Bottom Matrix Row will be assigned to stopping Tracks. Also, when the Shift Button is pressed, the Main Matrix will display the Session Overview, which allows you to quickly navigate your set.

When **Upper Button 1** is **On**, the Main Matrix can be used for playing instruments and/or MIDI mapping. There are eight User Modes (User 1 – 8) that you can select between via the Bottom Matrix Row. Each of these uses the same note layout, but each operates on a different channel (Channel 8 – 15).

NOTES ON LEDS:
When a button is not used for MIDI mapping, the LED state is static (unchanging). Pressing the button and/or sending out MIDI data from a MIDI Track in Live will not affect the LED state.

1.2 Creating/Editing a Preset

To edit the main assignments of Mix Controls, first choose the Mode to edit (Mode 1 – Mode 8) by using the MODE section in the Main Window. You can change the main assignment of a set of Mix Controls by right-clicking on the corresponding section in the Main Window and selecting a new function from the popup menu. If the assigned function is Editable, the editor for the Editable function will open. You can then use the sections in this editor for editing the Editable function.

To edit Global Control assignments, use View – *Show Global Controls Editor* to open the Global Controls Editor. Then, choose the Mode to edit (Default or Shifted) by using the GLOBAL MODE section in the Global Controls Editor. You can change the assignment of a Global Control by right-clicking on the corresponding section in the Global Controls Editor and selecting a new function from the popup menu.

While editing, you can test out the changes you've made by saving the preset (*CTRL/CMD + S*). If the preset contains unsaved changed, the title of the Main Window and other editor windows will contain an asterisks (*) to indicate that a save is needed.

Please keep in mind that, although each preset has 8 Mix Modes, you don't necessarily need to use all 8 Mix Modes or have different assignments in each Mix Mode. Likewise, although each Global Control can have a Default and Shifted assignment, you can set up Global Controls to perform the same function for Default and Shifted. The point here is that the presets you create can be as simple or complex as your needs require.

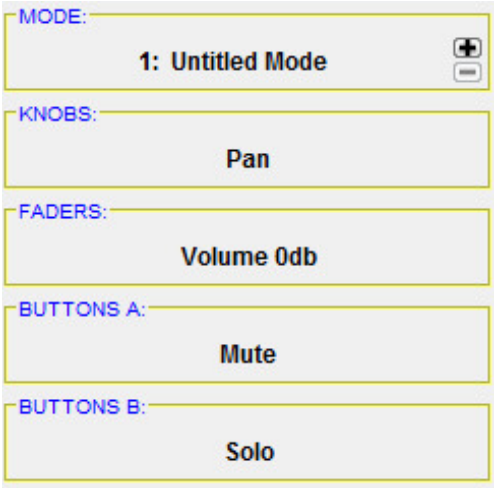
2 ME_OHM64 WINDOWS

This section describes each of ME_Ohm64's windows as well as the functions they provide.

NOTE: *The screenshots shown in this section are an approximation of what each of ME_Ohm64's windows will look like. The windows you will actually see may differ somewhat.*

2.1 Main Window

This is the primary window you will interact with/see when using ME_Ohm64. This window provides info on the assigned functions of the current Mix Mode, allows you to edit these assignments and provides access to other parts of the application. Closing this window will close ME_Ohm64.



The **MODE** section indicates the current Mix Mode. You can select a different Mix Mode by either using the Plus/Minus buttons in this section or by right-clicking on the section and selecting a Mix Mode.

You can set the name for the current Mix Mode by right-clicking on this section and choosing *Edit Mode Name*.

You can copy the settings of the current Mix Mode to other modes or swap the settings of the current Mix Mode with another mode by right-clicking on this section and using the *Copy Mode To* or *Swap Mode With* menus.

The other sections of this window all work in the same way. Each section shows the assigned function of a set of Mix Controls for the current Mix Mode. You can change this assignment by right-clicking on a section and choosing a new function.

Some of the available functions are marked *(Editable)*. Functions of this sort have their own editor, which will be opened when you select the function. You can also re-open this editor by either holding down Shift and clicking on the section or by right-clicking on the section and selecting *Edit Assignment*.

NOTE: *The Main Window will not allow you to assign two sets of Mix Controls to the same function in the same Mix Mode. For example, in the screenshot, the Main Window would not allow you to assign FADERS to Pan because KNOBS are already assigned to Pan. The only exception to this rule is with the Button Key Strip (Editable) function and the None function. Multiple sets of Mix Controls can be assigned to these functions.*

2.1a File Menu

Open Preset – (*CTRL/CMD + O*) – Open a saved preset.

Recent Presets – Display a menu of recently opened/saved presets.

Save Preset – (*CTRL/CMD + S*) – Save the current preset.

Save Preset As – Save the current preset to a new file.

Clear Recent Preset List – Remove any/all files listed in the Recent Presets menu.

Export Preset To HTML – Export the current preset to an HTML file that contains tables that show all of the preset's assignments.

Transfer ME_Ohm64 Script To Live – Transfer the ME_Ohm64 script to Live. This option should be used when updating to a new version of ME_Ohm64 or when installing Live to a new location.

2.1b View Menu

Show Global Controls Editor – (*CTRL/CMD + G*) – Show the Global Controls Editor.

Show Midi Preferences – *(CTRL/CMD + P)* – Show the Midi Preferences window.

Show Advanced Options – Show the Advanced Options window.

Main Window: Show Info View – (*CTRL/CMD + F12*) – Set whether or not the Main Window will display information on assigned functions. When on, hovering your mouse cursor over a Mix Control section will display information about the current assignment.

Main Window: Use Horizontal Layout – Set whether or not the Main Window should use a horizontal layout. A vertical layout is used by default.

Main Window: Select Color – Select the color to use for the section borders in the Main Window and Strip Window.

Main Window: Show Close Confirmation – Set whether or not a confirmation dialog will be shown when an attempt is made to close the Main Window.

Main Window: Always On Top – Set whether or not the Main Window should stay on top of other windows.

Strip Window: Show – Set whether or not to show the Strip Window, which shows the Editable assignments of the current Mix Mode. When on, upon selecting a Mix Mode that contains Editable assignments, the Strip Window will be shown. Otherwise, the window will be closed.

Strip Window: Use Vertical Layout – Set whether or not the Strip Window should use a vertical layout. A horizontal layout is used by default.

2.1c Help Menu

Open User Manual – Open this manual.

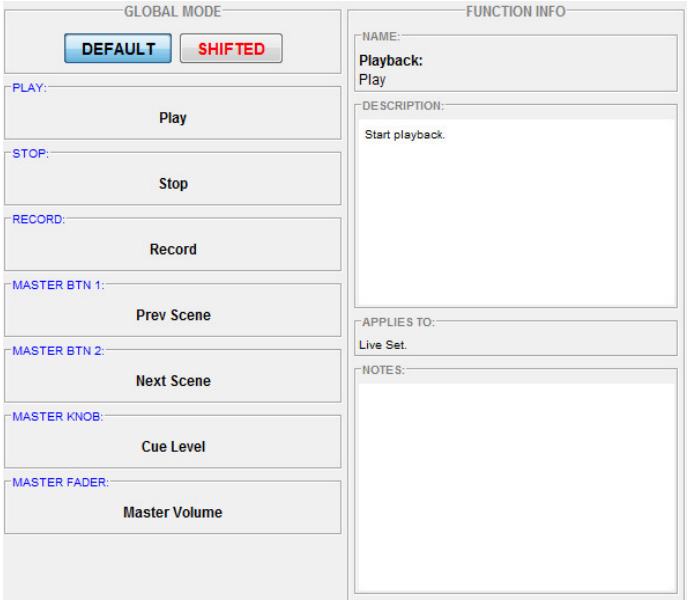
Export Function Reference To HTML – Export documentation for all of the Functions accessible in ME_Ohm64 to an HTML file.

Run Setup Assistant – Run the Setup Assistant utility, which provides information on the setup steps that need be completed in order to use ME_Ohm64.

Create Troubleshoot Log – Create a log file to assist in troubleshooting problems with ME_Ohm64.

2.2 Global Controls Editor

This window allows you to edit the assignments of Global Controls. You can access this window from the Main Window via View – *Show Global Controls Editor*.



The **GLOBAL MODE** section indicates the current Global Mode (either Default or Shifted). You can use the buttons in this section to select the Global Mode to edit.

The other sections on the left side of this window all work in the same way. Each section shows the assigned function of a Global Control for the current Global Mode. You can change this assignment by right-clicking on a section and choosing a new function.

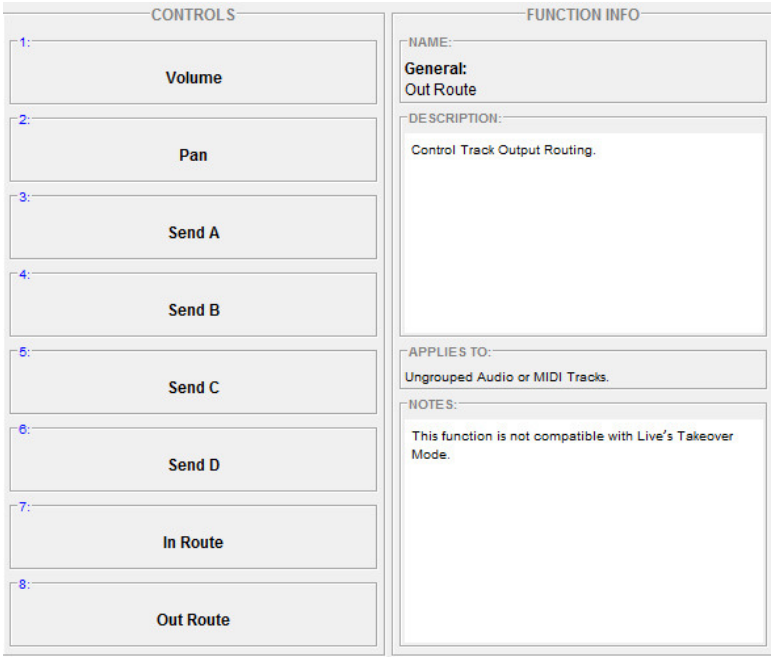
You can see information on assigned functions by hovering your mouse cursor over a Global Control section.

NOTE: *The editor will not allow you to assign two Global Controls to the same function in the same Global Mode. For example, in the screenshot, the editor would not allow you to assign MASTER FADER to Cue Level because MASTER KNOB is already assigned to Cue Level.*

2.3 Track Strip Editor

This window allows you to edit the Track Strip (Editable) function. The Track Strip (Editable) function controls parameters on the selected Track. This editor allows you to choose which parameters should be controlled.

To access this window, you first need to assign a set of Mix Controls to Track Strip (Editable) in the Main Window.



All of the sections on the left side of this window work in the same way. Each section shows the assigned function of a Mix Control in the Track Strip for the current Mix Mode. You can change this assignment by right-clicking on a section and choosing a new function.

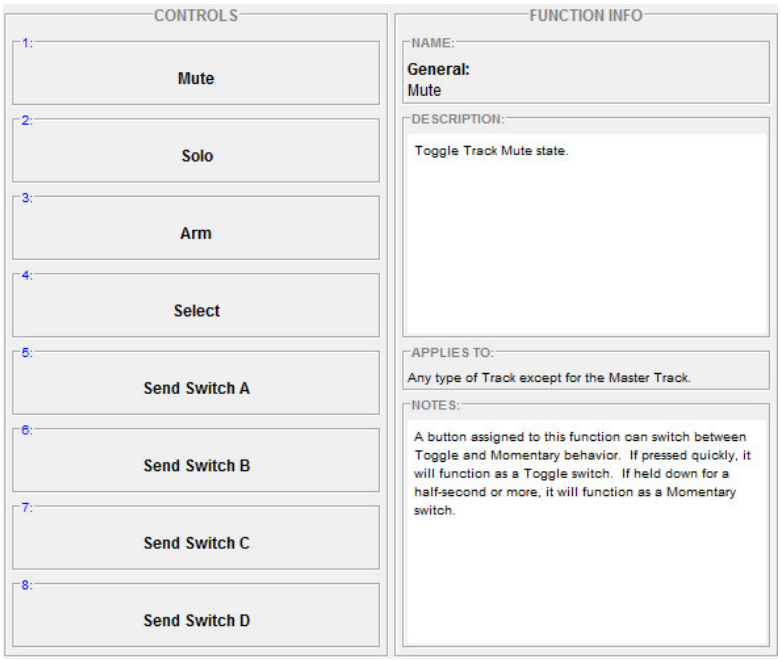
You can see information on assigned functions by hovering your mouse cursor over a Mix Control section.

NOTE: *The editor will not allow you to assign two Mix Controls to the same function. For example, in the screenshot, the editor would not allow you to assign 1 to Pan because 2 is already assigned to Pan.*

2.4 Global Strip Editor

This window allows you to edit the Global Strip (Editable) function. The Global Strip (Editable) function controls global parameters and also parameters of the selected Track. This editor allows you to choose which parameters should be controlled.

To access this window, you first need to assign a set of Mix Controls to Global Strip (Editable) in the Main Window.



All of the sections on the left side of this window work in the same way. Each section shows the assigned function of a Mix Control in the Global Strip for the current Mix Mode. You can change this assignment by right-clicking on a section and choosing a new function.

You can see information on assigned functions by hovering your mouse cursor over a Mix Control section.

NOTE: *The editor will not allow you to assign two Mix Controls to the same function. For example, in the screenshot, the editor would not allow you to assign 1 to Solo because 2 is already assigned to Solo.*

2.5 Key Strip Editor

This window allows you to edit the Key Strip (Editable) function. The Key Strip (Editable) function sends keystrokes. This editor allows you to choose which keystrokes should be sent.

To access this window, you first need to assign a set of Mix Buttons to Key Strip (Editable) in the Main Window.

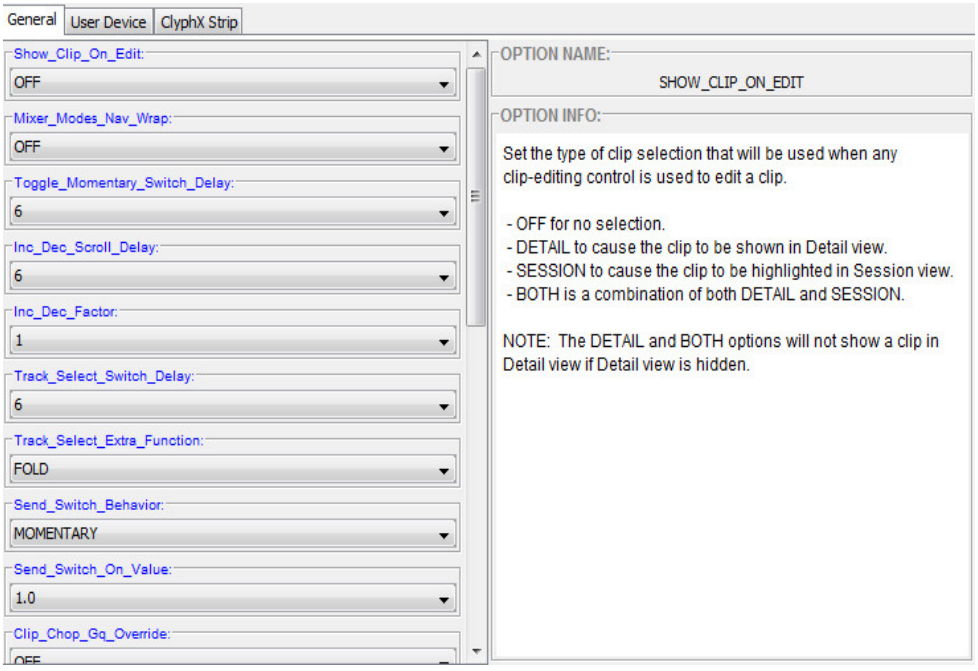
All of the sections in this window work in the same way. Each section shows the assigned keystroke function of a Mix Button in the Key Strip for the current Mix Mode.

Each keystroke function has a Main Key assignment, which is the main keystroke that the function will send. You can change this assignment by right-clicking on a Main Key section and choosing a new keystroke.

Each keystroke function also has Modifier Key assignments, which allow you to add/remove modifier keys to the Main Key in order to create keystroke combinations.

2.6 Advanced Options

This window allows you to modify some of the behaviors of the ME_Ohm64 MIDI Remote Script. The options available in this window are global settings that apply to all presets. You can access this window from the Main Window via View – *Show Advanced Options*.



The **General** tab provides general options.

The **User Device** tab provides options related to the User Device functions.

The **ClyphX Strip** tab provides options related to the ClyphX Strip function.

The window may also contain an additional tab with options specific to the Ohm64.

NOTE: *If Live is running, you will need to close and then re-open it in order for changes you make in Advanced Options to take effect.*

3 MIDI MAPPING

When using the default Live settings as described in the Midi Preferences window, it is not possible for other controllers/MIDI devices to conflict with the Ohm64 as the Ohm64 has a direct line of communication with Live. However, the default settings also prevent you from remapping controls via MIDI mapping.

In order to allow for MIDI mapping, you will need to turn on the Remote switches for *ME_Ohm64 Input* and *Output*.

3.1 General Notes

- If you'd like to remap Global Controls in Shifted Mode, press down the Shift Button before entering MIDI mapping mode. Once you've entered MIDI mapping mode, you can release the Shift Button.

- When a control is remapped via MIDI mapping, it still retains its function mapping. For example, if Mix Encoders are assigned to Volume and are remapped, the Main Window will still reflect that the Mix Encoders are assigned to Volume.

- Additional Mix Button Functions that apply to Mix Encoders do not apply to MIDI mapping. For example, if Mix Encoders are assigned to Volume and are remapped, any associated increase/decrease or reset functions will continue to apply to Volume.

- Unless otherwise noted, you should only remap Mix Controls and Global Controls. You should NOT remap Other Controls.

3.2 Notes on Conflicts

Once you've turned on Remote switches for ME_Ohm64, this will open up the potential for conflicts with other controllers/MIDI devices whose Remote switches are turned on. Review the following notes for help with avoiding these conflicts.

- The Ohm64 operates on MIDI channel 16 by default. This exposes MIDI messages on channel 16 to the MIDI mapping system and so other controllers should not use channel 16 for MIDI mapping.

- The controls in each Mix and Global Mode are internally translated. For example, the controls in Mix Mode 1 will be translated to MIDI channel 1, Mix Mode 7 will be translated to MIDI channel 7, etc. This allows the controls in each mode to be mapped independently of other modes. However, it also exposes MIDI messages on channels 1 – 8 to the MIDI mapping system and thus makes conflicts more likely.

- The Advanced Options window includes MIDI Mapping Accommodation options. These options allow you to choose which Mix and Global Modes should be translated, which will limit the number of MIDI channels that are exposed to the MIDI mapping system. For example, if you only every use Mix Mode 3 for MIDI mapping, you can turn accommodation off for every other Mix Mode. This will make it so only channel 3 (in addition to channel 16 of course) is exposed to the MIDI mapping system (instead of channels 1 – 8). By default, accommodation is turned on for all modes.

4 TROUBLESHOOTING

This section covers errors/problems that you may run into when using/setting up ME_Ohm64. If you've tried the resolutions listed here and you're still receiving errors/having problems, please send an email to Support with as much info on the problem as possible. Also, please include a troubleshooting log with your email. You can create a troubleshooting log via Help – *Create Troubleshoot Log*.

4.1 ME_Ohm64 Error Messages

This section covers error messages you may receive when starting, setting up and/or using ME_Ohm64.

Error Opening MIDI Port – This error is typically due to the MIDI port being in use by another application. To resolve this, please close all applications including ME_Ohm64 and then re-launch ME_Ohm64.

Insufficient MIDI Ports Error – This error indicates that the number of detected MIDI ports is too few. To resolve this, first close ME_Ohm64 and then verify the following before re-launching ME_Ohm64 again:

- Ensure that the Ohm64 is connected/turned on.
- Ensure that you've enabled some virtual MIDI ports to use with ME_Ohm64. If you need help with this, run the Setup Assistant via Help – *Run Setup Assistant*.

User Directory Error – This error indicates that there was a problem creating a user directory, which is used to store global settings and such. The typical cause for this error is related to permissions and/or environment variables. To resolve this, first close ME_Ohm64 and then create the user directory manually as follows:

> In your User folder, create a folder named *nativeKONTROL*. Within the nativeKONTROL folder, you should create another folder named *ME_Ohm64*.

Fatal Error – This error indicates that files needed for ME_Ohm64 to run are missing. Please reinstall ME_Ohm64 to recover from this error.

4.2 Other Problems

This section covers other problems related to ME_Ohm64 that you may encounter.

1. Correct settings have been made for the Ohm64 in ME_Ohm64, but the Ohm64's status is still listed as OFFLINE.
To resolve this, please close all applications including ME_Ohm64 and then re-launch ME_Ohm64.

2. Correct settings have been made for Live in ME_Ohm64, but Live's status is still listed as OFFLINE.
To resolve this, please restart ME_Ohm64.

3. ME_Ohm64 is not listed in Live's Control Surface list.
To resolve this, first close Live and then transfer the ME_Ohm64 script to Live via File – *Transfer ME_Ohm64 Script to Live* .

4. When multiple tracks are selected and Track I/O settings are changed, control LEDs and/or displays related to controlling Track I/O do not update properly. Only control LEDs/displays related to the track the change was made from are updated properly.
This is a Live bug that affects all Control Surfaces that provide feedback regarding Track I/O states. ME_Ohm64 has no control over this unfortunately. If you'd like to see this fixed, please contact Ableton.

5 SUPPORT

Email:
support@nativekontrol.com

Forum:
Beatwise Network

Videos:
Stray's YouTube Channel