

A decorative vertical bar on the left side of the slide, composed of a 5x5 grid of 25 colored squares. The colors include shades of blue, green, orange, yellow, pink, and brown. Several squares contain white line-art icons: a piano keyboard, a robotic arm, a microscope, a computer monitor with a play button, and a lightbulb.

Learning DigiShow

4

Common Operations

Robin Zhang and Labs 2025

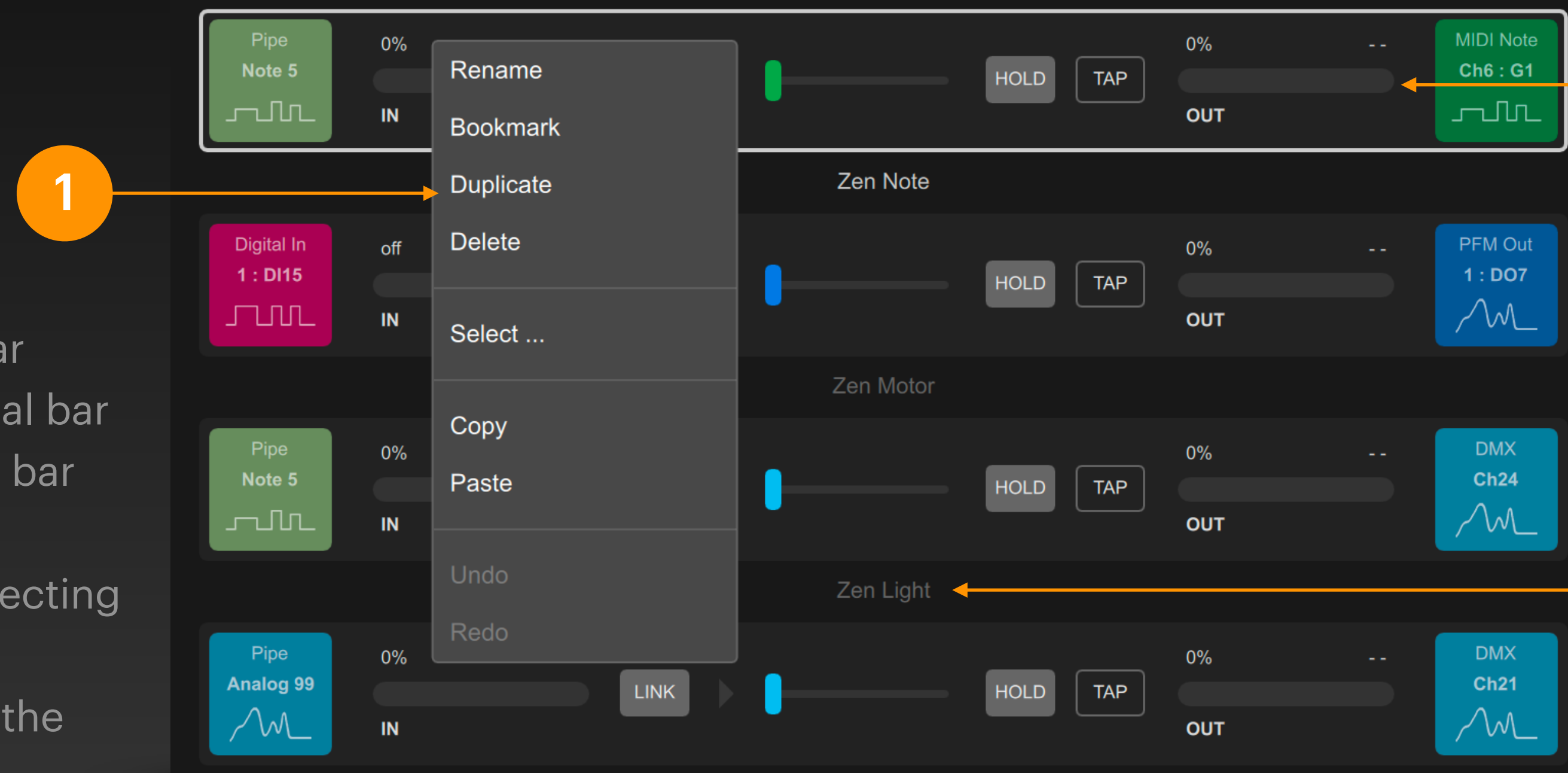
Management of Signal Link Table

Management of Signal Link Table

When the signal link table contains many signal bars, it is necessary to frequently organize the signal bars in the table, such as: moving, copying, renaming, classifying, etc.

Right-click on the signal bar (or long-press the left mouse button) to pop up a menu, select a menu item:

Rename to rename the signal bar
Bookmark to bookmark the signal bar
Duplicate to make a copy of the bar
Delete to delete the signal bar
Select to enter the mode for selecting multiple signal bars
Copy / Paste to copy and paste the signal bar



Use the mouse to drag any signal bar to move its position in the table

Double-click the name label below the signal bar to modify it directly

Multiple Signal Bar Selection

After entering the multi-select mode, you can copy, move, and delete signal bars in batches.



Right-click the signal bar and select "Select..." in the pop-up menu to enter the multi-select mode. A check box will appear on the left side of each signal bar, and a function button bar will appear at the bottom of the signal link table. Click one of the buttons:

Select All to check all signal bars in the table

Select None to uncheck any signal bar in the table

Copy to copy the checked signal bars, and then you can paste them to other locations in the table or to the signal link table in another project window

Duplicate to make copies of the checked signal bars

Delete to delete the checked signal bar

Move to move the checked signal bar to the position below the currently selected signal bar

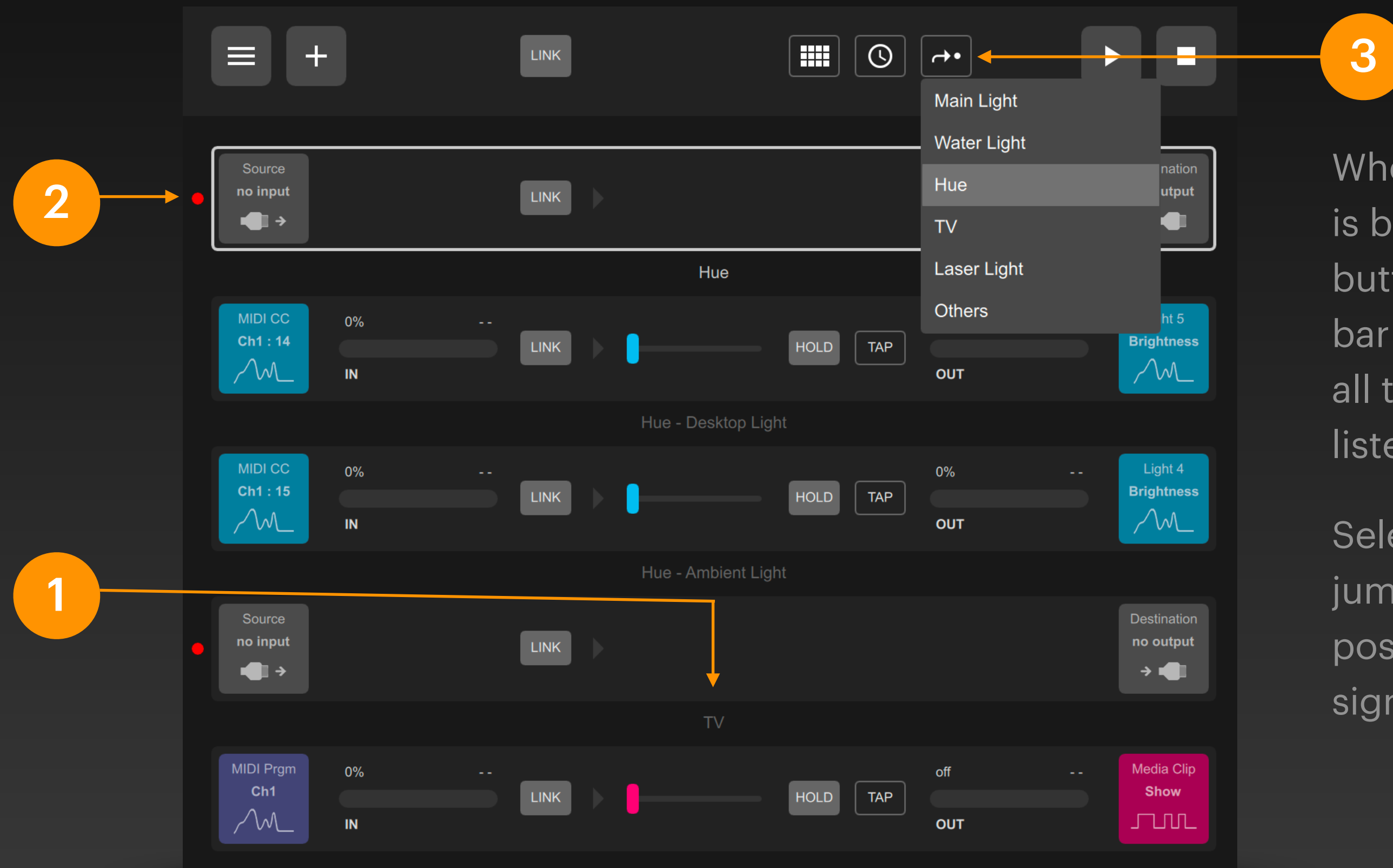
Click **X** button to exit the multi-select mode

Signal Bar Bookmark

When a large number of signal bars need to be grouped and classified, we can use the bookmark function to achieve it flexibly.

Right-click the signal bar and select Bookmark in the pop-up menu. A small red dot will appear on the left end of the signal bar, indicating that the signal bar has been bookmarked.

Usually you can create some blank signal bars in the table to separate signal bars of different categories in the table, and add text labels by naming the signal bars.



When a signal bar in the table is bookmarked, this bookmark button will appear in the top bar of the window. Click it and all the bookmark items will be listed in the pop-up menu.

Select one of them to quickly jump to the corresponding position of the bookmark in the signal link table.

**Keyboard,
Sound Card and Screen**

Computer Built-in Interface

While the DigiShow software has the ability to communicate with external hardware devices for input and output, it also has built-in interfaces to support the computer's own keyboard, sound card and screen. Although these interfaces are not the key features of DigiShow, they are often used for testing and experiments.



Hot Key
Interface



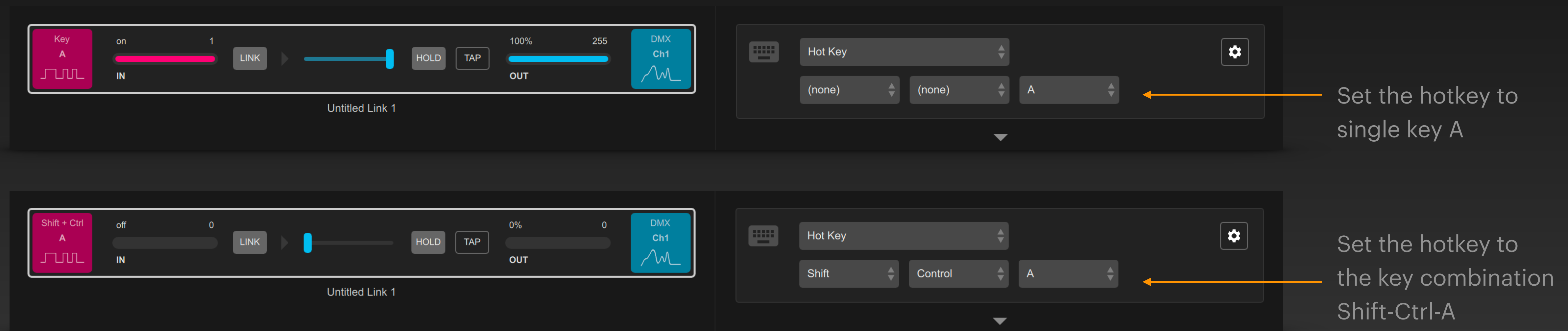
Audio Input
Interface



Screen Presentation
Interface

Hot Key - Signal Input

In any DigiShow project, the Hot Key interface can be used to receive the binary signal corresponding to the keyboard input. Set the input end of the signal bar to Hot Key. When the user presses the specified single key or shortcut keys on the keyboard, the state of the input signal end will turn ON, and the state will return to OFF after releasing the key.



The image displays two examples of the DigiShow software interface for configuring a Hot Key signal input. Each example consists of a signal bar on the left and a Hot Key configuration panel on the right.

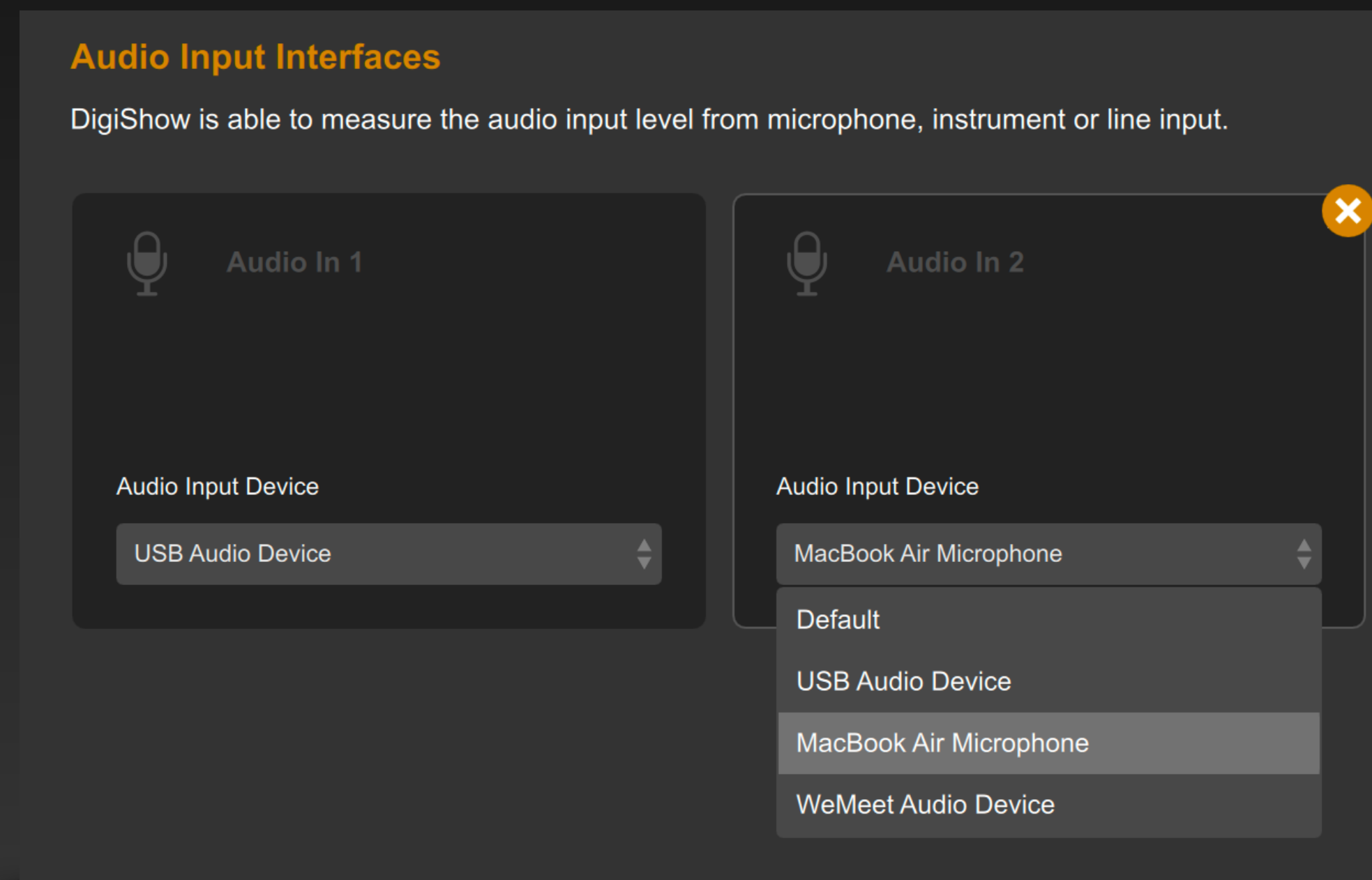
Top Example: The signal bar shows a pink 'Key A' button, a red 'on' indicator, and a blue 'DMX Ch1' output. The Hot Key panel shows a 'Hot Key' dropdown set to 'A'. An orange arrow points to the 'A' dropdown with the text: "Set the hotkey to single key A".

Bottom Example: The signal bar shows a pink 'Shift + Ctrl A' button, a grey 'off' indicator, and a blue 'DMX Ch1' output. The Hot Key panel shows a 'Hot Key' dropdown set to 'Shift + Ctrl + A'. An orange arrow points to the 'Shift + Ctrl + A' dropdown with the text: "Set the hotkey to the key combination Shift-Ctrl-A".

Once DigiShow is started, hotkey response has the **highest priority** of the operating system. No matter which foreground application you are using on your computer, DigiShow will preempt the keystrokes received.

Audio Input - Interface Configuration

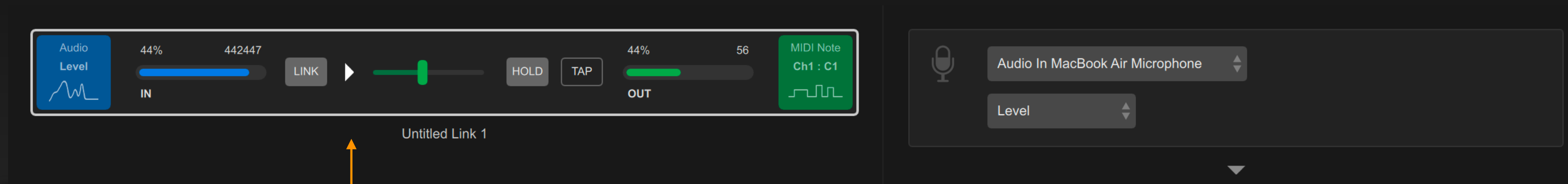
Audio input can come from the computer's built-in microphone or a microphone (or pickup, line input, etc.) connected via an external USB sound card. Users can add audio input interfaces to the current project in the Audio section of the Interface Manager.



DigiShow can support multiple audio inputs at the same time, such as connecting multiple patch microphones through multiple USB sound cards to simultaneously receive vibration trigger signals from different sources.

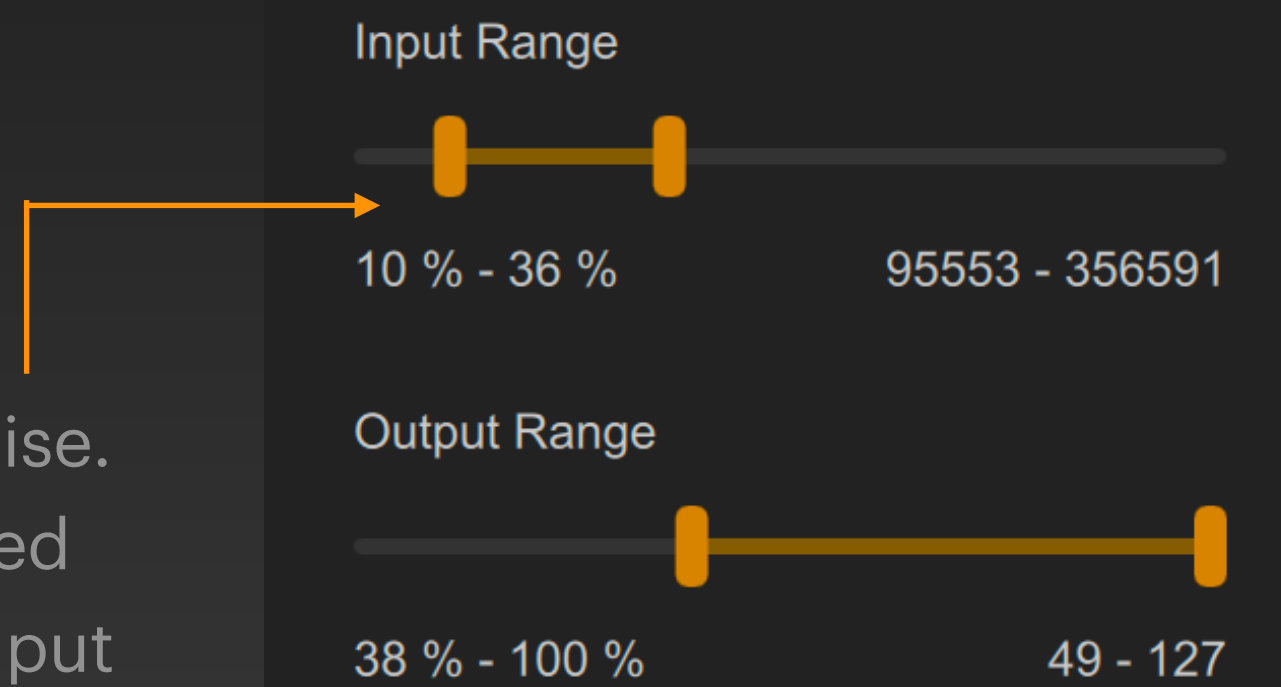
Audio Input - Signal Input

In the signal link table, set the input end of the signal bar to Audio Input. When the computer recognizes the level change of the audio input, the analog value of the input signal end will change.



In this example, we map the level changes of the audio input into MIDI Note signals.

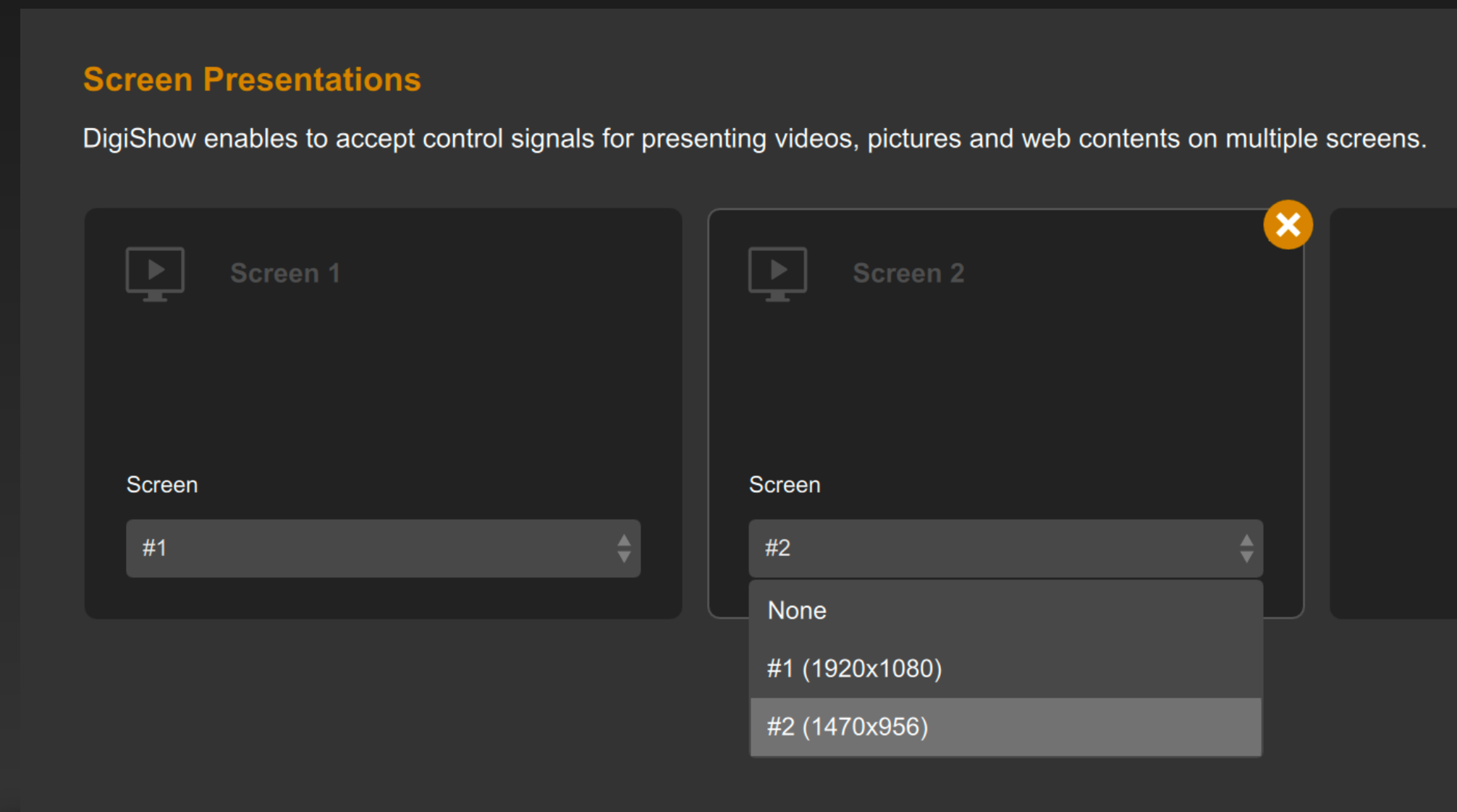
Audio input signals usually have some background noise. By setting the input lower limit, the noise can be filtered out. That is, only signal fluctuations that exceed the input lower limit will trigger the conversion into Note.



When the value of the audio input analog signal is between the input lower and upper limits, the output Note velocity will correspond to the value range defined in the output lower and upper limits.

Screen Presentation - Interface Configuration

The screen presentation interface provided by DigiShow allows you to dynamically display media content such as pictures, videos, and web pages on the computer screen through control commands. Users can add a screen presentation interface to the current project in the Screen section of the Interface Manager.

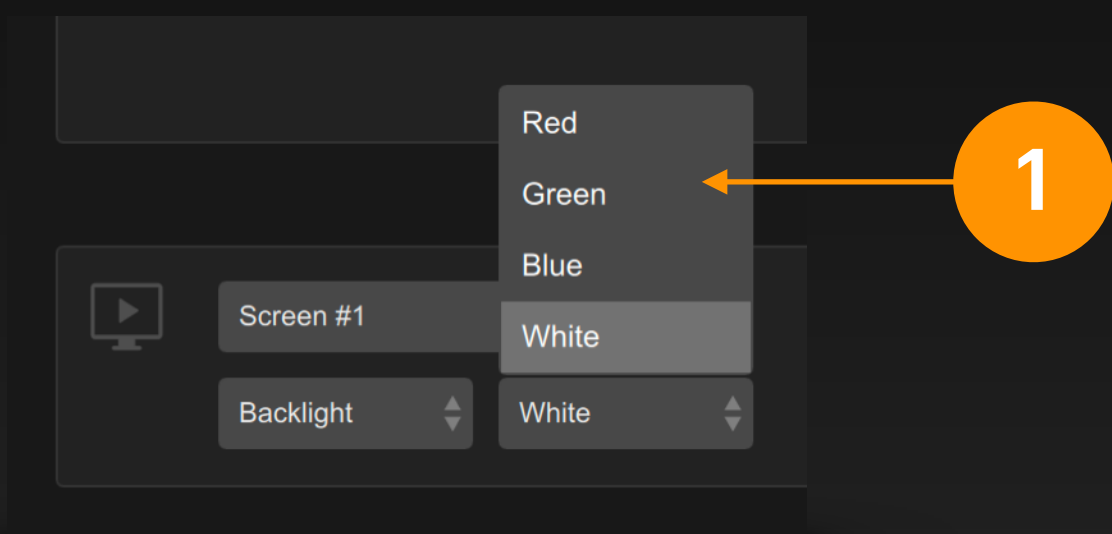


Each screen presentation interface can be assigned to a different screen

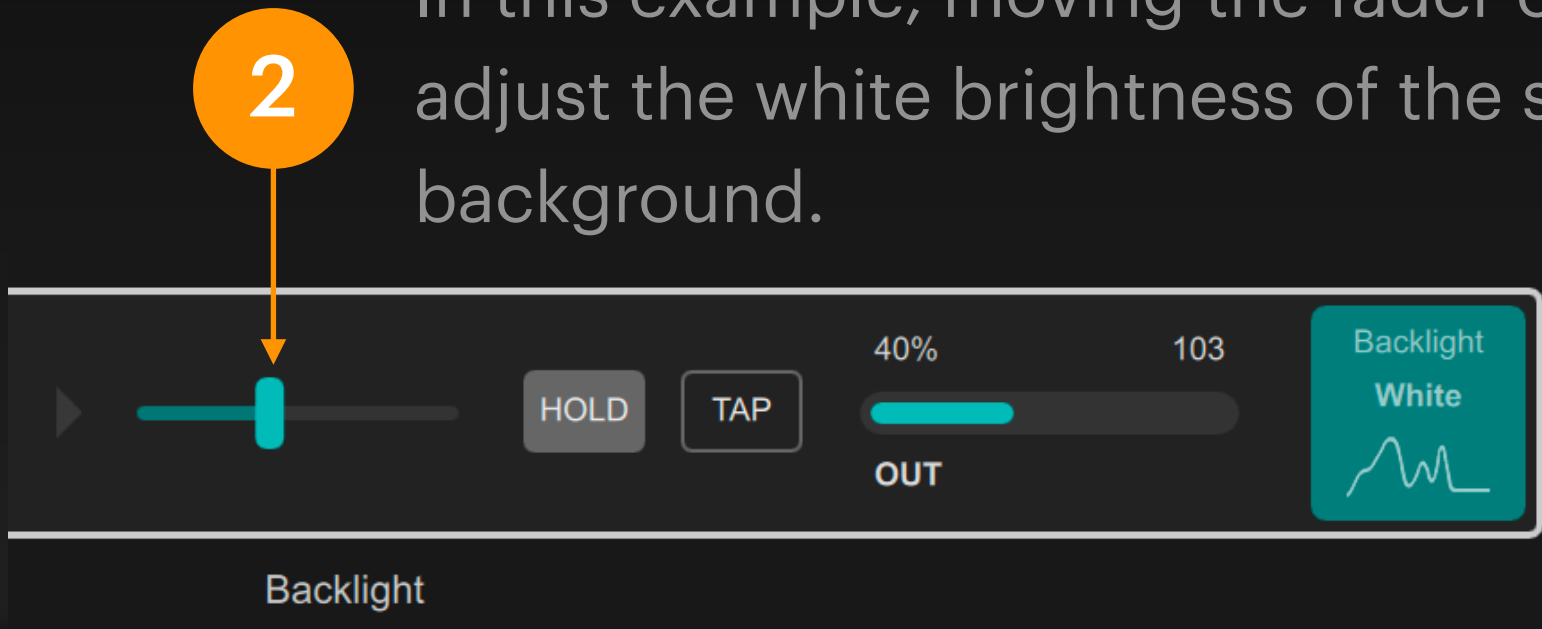
DigiShow can support multiple screens at the same time, such as playing synchronized video images or dynamic web content through multiple projectors at the same time.

Screen Presentation Signal Output

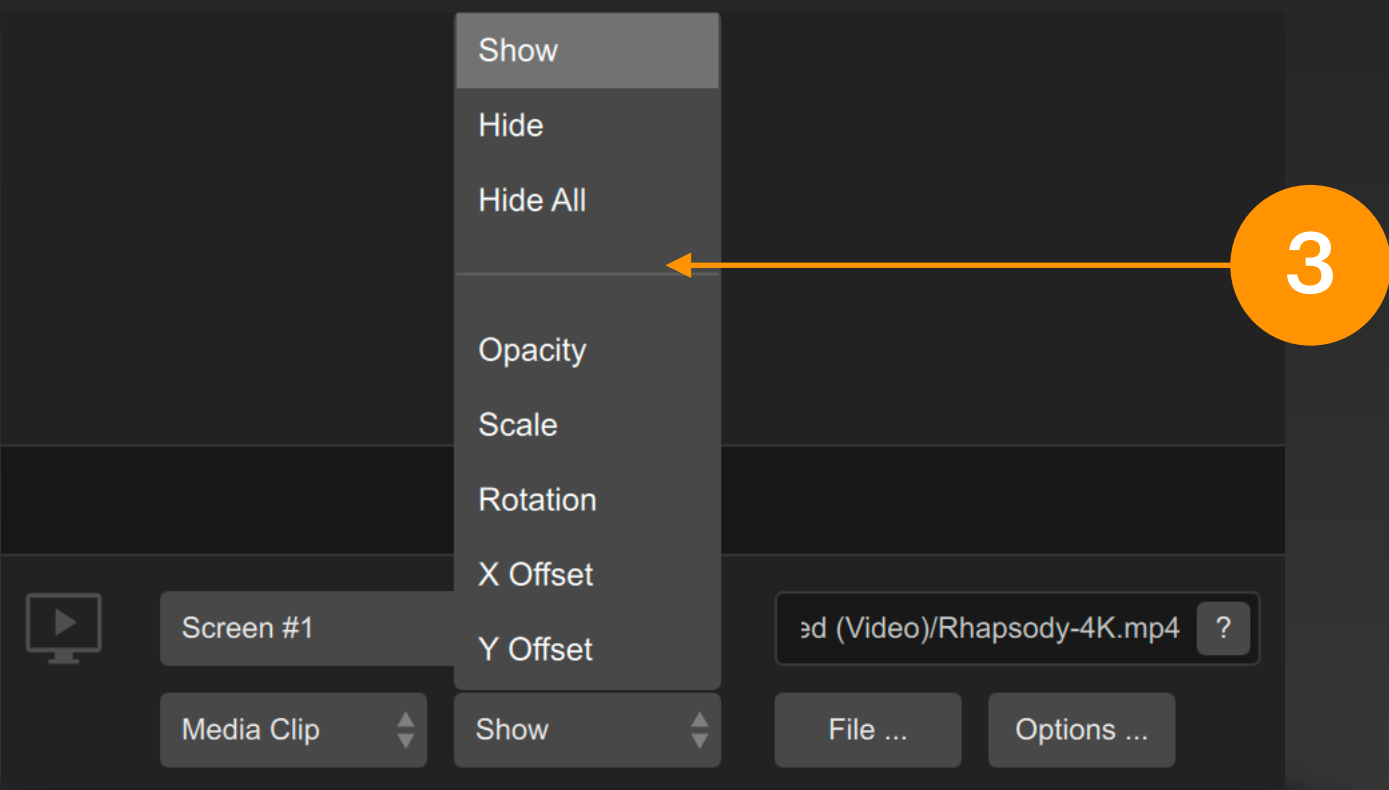
In the signal link table, set the output end of the signal bar to Screen. We can achieve dynamic adjustment of screen parameters and flexible display of media content by connecting a series of control channels.



When the signal bar output is set to Screen interface and **Backlight** mode, you can select four analog channels of red, green, blue and white to adjust the background color of the screen.



In this example, moving the fader can adjust the white brightness of the screen background.



After the signal bar output is set to **Media Clip** mode, you can click the File... button to select a media file for screen display, or directly enter the address of a dynamic web page for screen display in the text box. Then you can select control channels such as Show or Hide to connect to binary type signal output; you can also select control channels such as Opacity, Scale, etc. to connect to analog type signal output.



In this example, click TAP to play the specified media clip on the screen.

Screen Presentation Signal Output

Opacity
Scale
Rotation
X Offset
Y Offset

Fade In

These parameters are used to set various display properties of media clips when they appear on the screen.

Run Java Script

For web page type media materials, you can enter a line of JS script program in this text box, and the script program will be automatically executed after the page is loaded and displayed on the screen.

After selecting **Media Clip** mode and Show control, you can click the Options... button to set optional parameters for the media clip to be displayed in the pop-up panel.

Media clip display options

The screenshot shows the 'Media Clip Display Options' panel. It is divided into three sections: 'Media Clip Display Options', 'Options for Video Clip Only', and 'Options for Web Clip Only'. The 'Media Clip Display Options' section includes checkboxes for 'Show Alone' and 'Repeat', and sliders for 'Fade In', 'Opacity', 'Scale', 'Rotation', 'X Offset', and 'Y Offset'. The 'Options for Video Clip Only' section includes sliders for 'Volume', 'Speed', and 'Position'. The 'Options for Web Clip Only' section includes a text box for 'Run Java Script' and a 'Defaults' button. At the bottom of the panel are buttons for 'Show', 'File ...', 'Options ...', and 'Apply'. Numbered callouts point to specific elements: 1 points to the 'Options ...' button, 2 points to the 'Show Alone' checkbox, 3 points to the 'Opacity' slider, 4 points to the 'Repeat' checkbox, 5 points to the 'Run Java Script' text box, and 6 points to the 'Apply' button.

Show Alone

Only the specified media clip is displayed on the screen, that is, once the clip is displayed, any other media clips that have appeared on the screen before will be hidden.

Repeat

For video media, you can specify whether to play in a loop.

Volume (video playback volume)

Speed (video playback speed)

Position (video playback position)

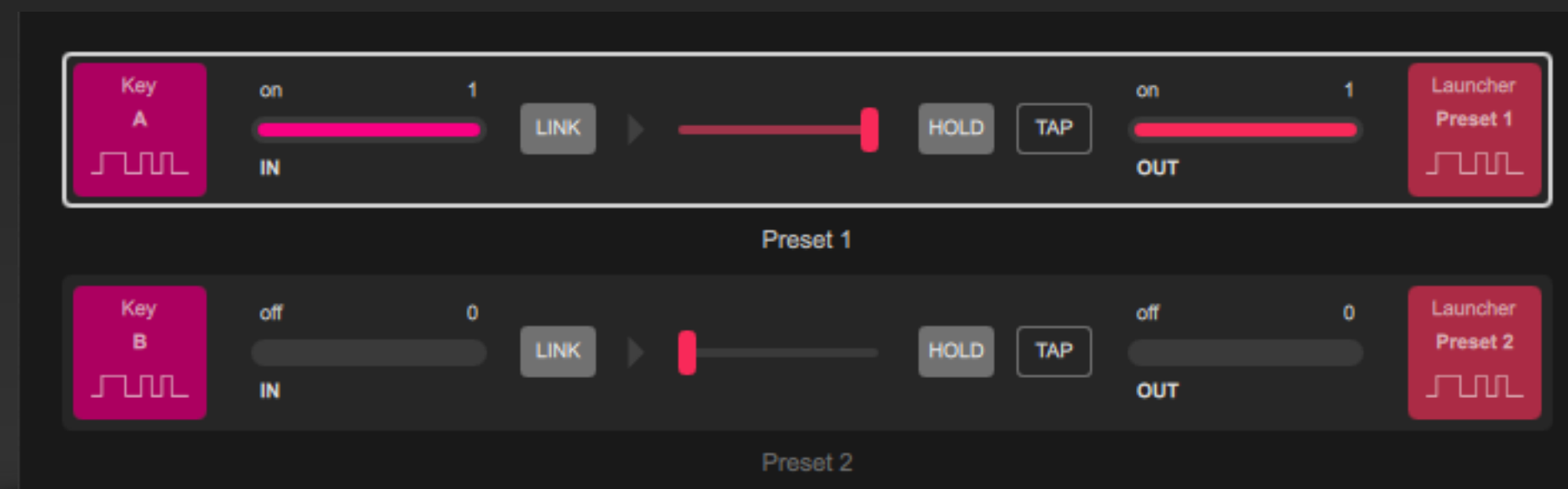
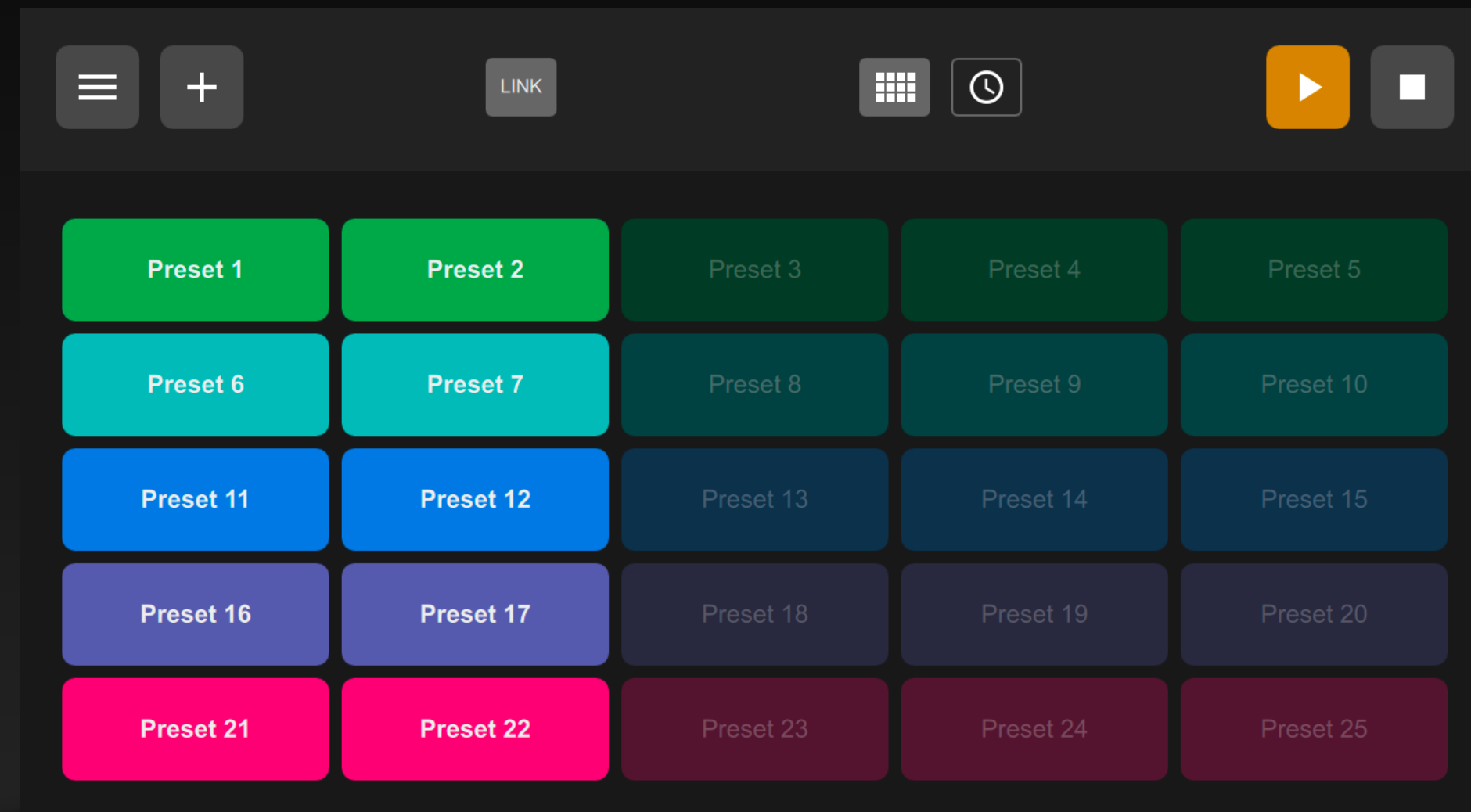
These parameters are used to set various playback properties of video-type media clips when they appear on the screen.

After finishing modifying the options, click anywhere outside the options panel to close the panel. Also click the Apply button at this time.

Preset Launcher

Preset Launcher

The user can memorize the **signal output values** and **LINK status** of each signal bar into the selected Preset. Each Preset corresponds to a button in the Preset Launcher. When the button is clicked, the signal output values and LINK status memorized in the Preset will be restored immediately.



The preset launcher also provides a signal interface that can be connected to the output of the signal bar and use other linked signals to trigger the launch of a specific preset.

Create Preset

In the Preset Launcher panel, select a Preset button, right-click (or long-press the left mouse button), and select Create Preset from the pop-up menu.

2 Click this button in the top bar to display the Preset Launcher panel

3

1

The image shows a software interface for creating and managing presets. At the top, there is a dark bar with several icons: a hamburger menu, a plus sign, a 'LINK' button, a 3x3 grid icon (highlighted by callout 2), a clock icon, a play button, and a stop button. Below this bar is a grid of 25 preset buttons, labeled 'Preset 1' through 'Preset 25', arranged in five rows and five columns. A context menu is open over 'Preset 6' (highlighted by callout 3), showing options: 'Create Preset', 'Rename', 'Set Color', and 'Delete'. Below the grid is a section titled 'Signal Link Table' containing three rows of controls. Each row has a 'MIDI CC' input section (labeled 'Ch1 : 1', 'Ch1 : 2', 'Ch1 : 3'), a 'LINK' button, a slider, a 'HOLD' button, a 'TAP' button, and a 'DMX' output section (labeled 'Ch1', 'Ch2', 'Ch3'). The first row is for 'Light R' with a DMX range of 0% to 255. The second row is for 'Light G' with a DMX range of 50% to 128. The third row is for 'Light B' with a DMX range of 0% to 0. Callout 1 points to the DMX output section of the 'Light R' row.

Create several signal bars in the signal link table. In this example, there are three signal bars Light R, Light G, and Light B, which are used to control the red, green, and blue dimming channels of the full-color light.

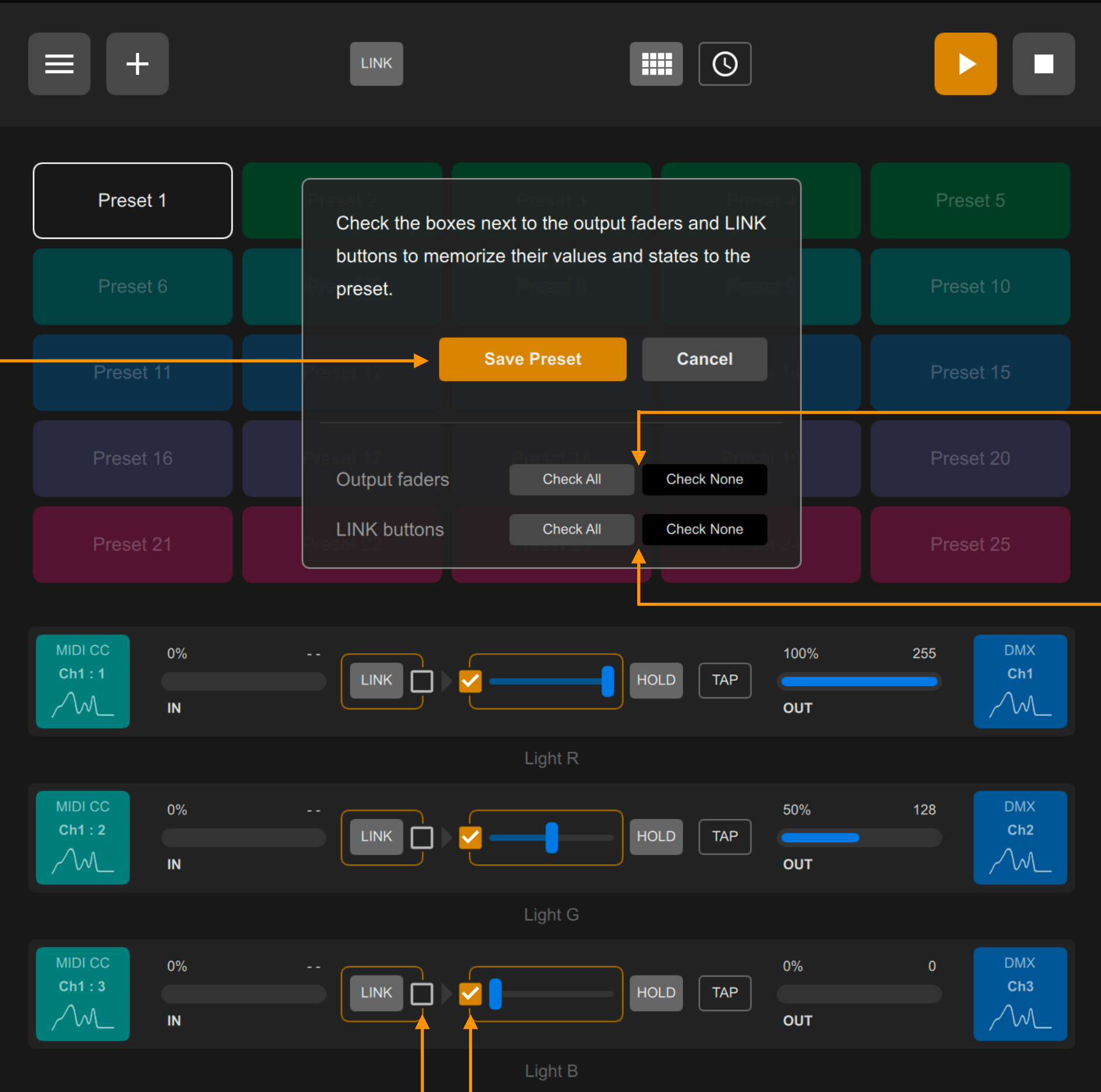
Create Preset

Click the Save Preset button to save the selected items in Preset 1.

In this example, the output of the three dimming channels of the three signal bars Light R, Light G, and Light B are memorized in the preset.

These checkboxes are used to mark the LINK states that need to be memorized.

These checkboxes are used to mark output signal values that need to be memorized.



5

Click the Check All / Check None button in the pop-up box to quickly check in batches

Check All Check all signal output items

Check None Do not check any signal output items

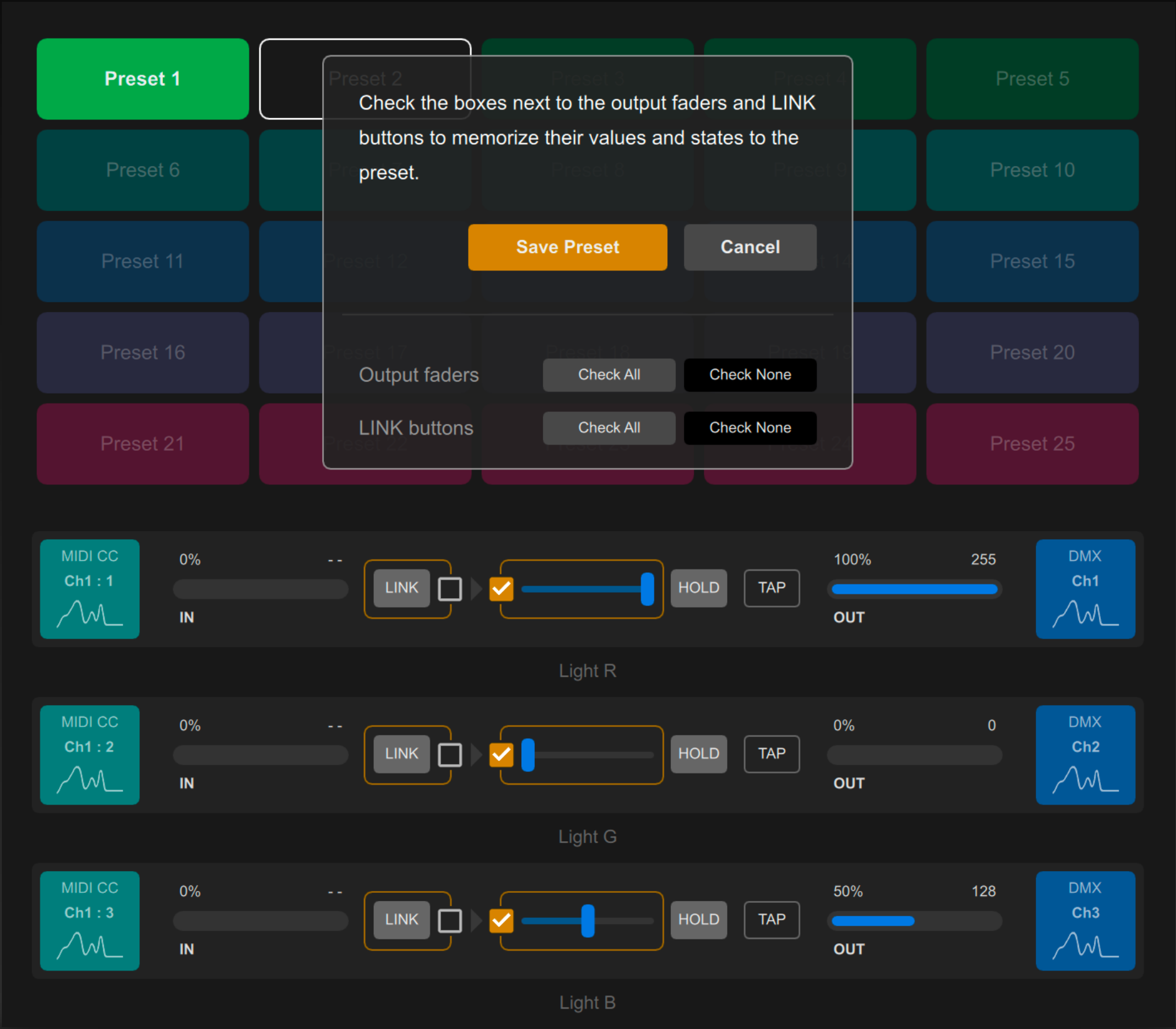
Check All Check all LINK items

Check None Do not check any LINK items

4

Please check the items in the signal bar that you want to memorize into the Preset

Create Preset



7

After modifying the output signal value in each signal bar, use the same method to memorize this output signal value to another preset named Preset 2.

Click the right mouse button (or long press the left mouse button) and select Rename or Set Color in the pop-up menu to rename or change the color of the Preset button.

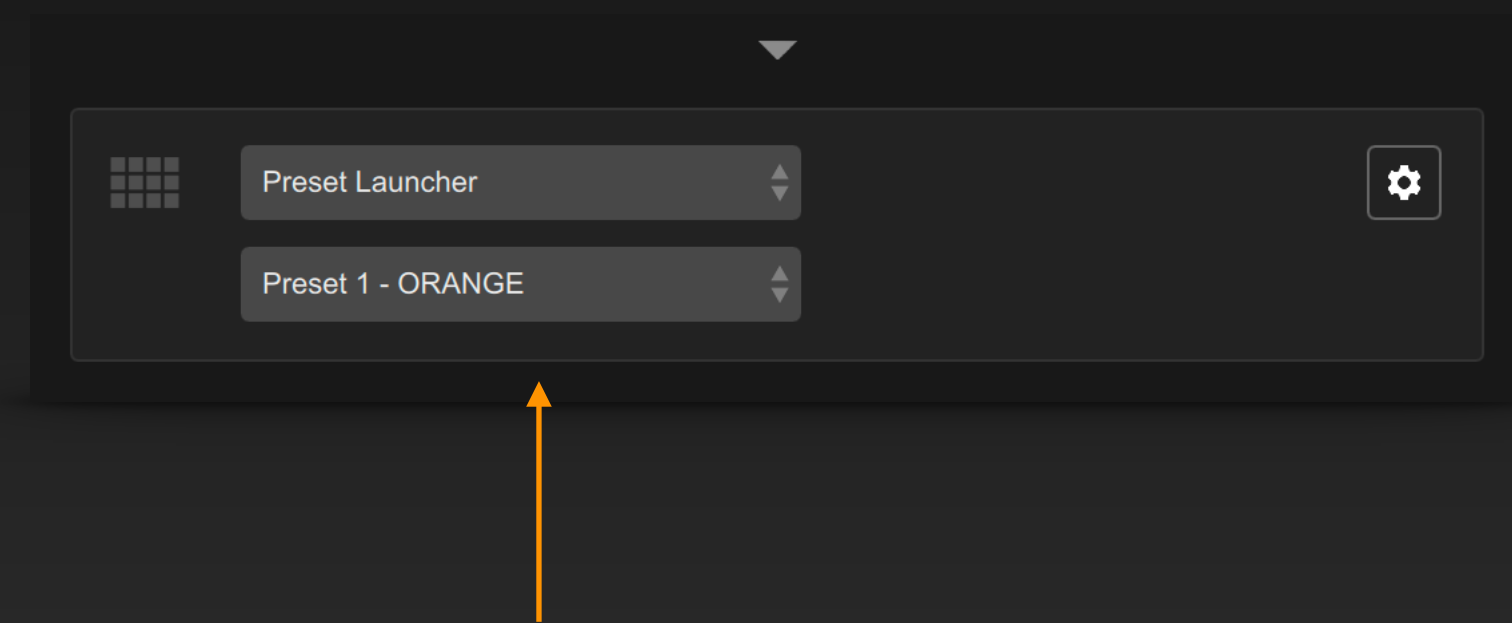


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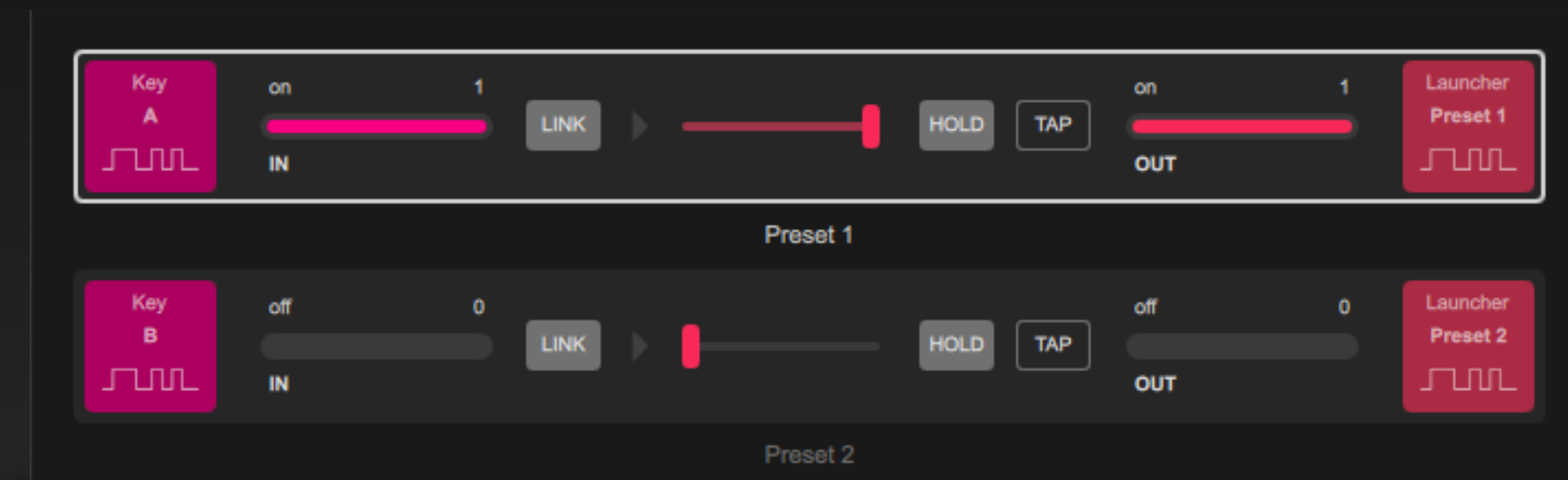
For easier identification, you can change the name and button color for Preset 1 and Preset 2. Click the button to restore the memorized signal output.

Preset Launcher Interface

The Preset you created not only appears on the button in the Preset Launcher panel, but also appears in the signal channel of the Preset Launcher interface.



Select the Preset Launcher interface at the output end of the signal bar, and the presets you created before will be listed as a group of control channels. Select one of them, and it will be mapped to a binary output signal to trigger the start of this preset.



In this example, press key A on the keyboard to activate Preset 1, and press key B on the keyboard to activate Preset 2.

In this way, the signal bar with Preset Launcher output can also be referenced by other Presets to achieve more complex multi-level triggering.

Beat Maker

Beat Maker

Beat Maker can be used to generate time-based beat signals in DigiShow software. Beats can be used as signal input to trigger various dynamic signal outputs.

The image shows the Beat Maker panel in DigiShow software. The panel is dark gray with various controls. At the top, there is a top bar with several icons. Below this, the main panel contains a 'Run' section with an 'ON' button, a 'BPM' section with a display showing '120' and minus/plus buttons, a 'Tap' button, a 'Beats' section with a display showing '4' and minus/plus buttons, a 'Sound' section with an 'OFF' button, and a 'Link' section with an 'OFF' button and a help icon. Numbered callouts point to these controls: 1 points to a clock icon in the top bar; 2 points to the 'ON' button; 3 points to the BPM display; 4 points to the 'Tap' button; 5 points to the beats per loop display; 6 points to the 'Sound' button; and 7 points to the 'Link' button.

1 Click this button in the top bar to display the Beat Maker panel

2 Click this button to ON, enable the Beat Maker

3 Display and adjust the BPM (beats per minute) speed of the generated beats

4 You can follow the beat of the music and click the Tap button several times to automatically calculate the BPM.

5 Display and adjust the number of beats per loop

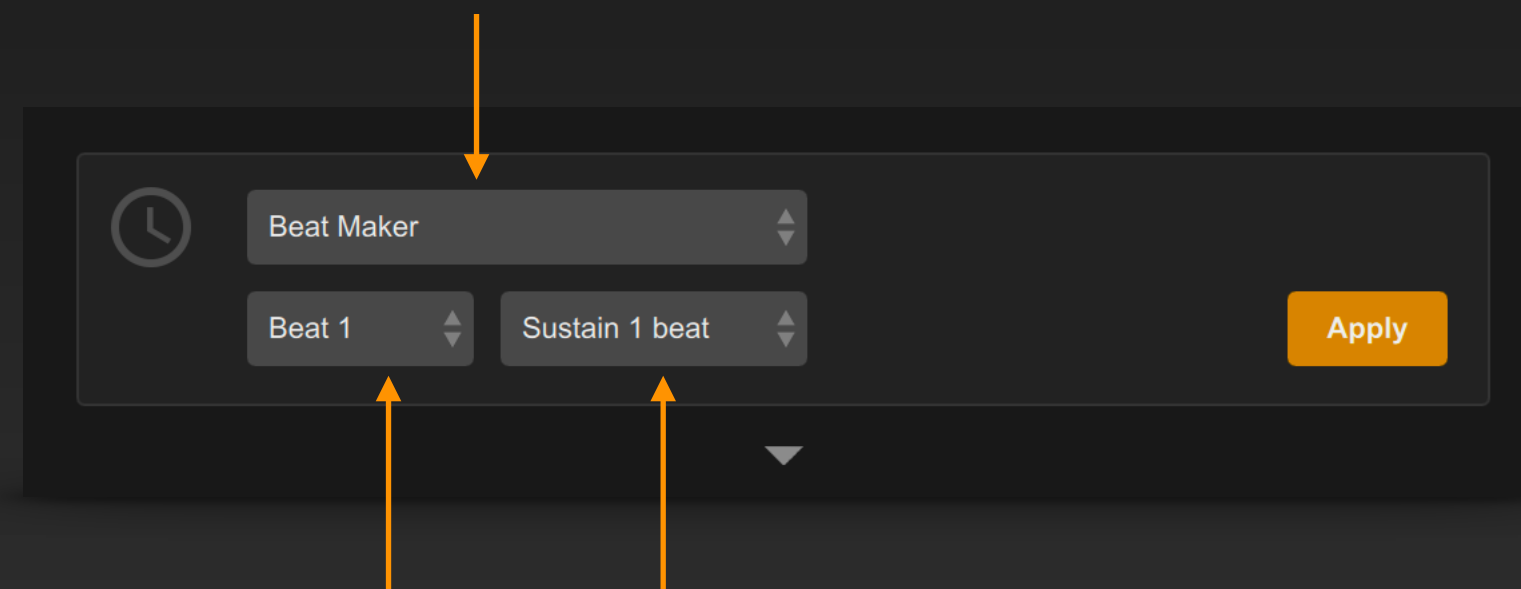
6 Click this button to ON, it will beep when beating.

7 When this button is turned ON, the Beat Maker will keep the beat in sync with Ableton Live and any external software or hardware that supports Ableton Link.

Beat Maker Interface

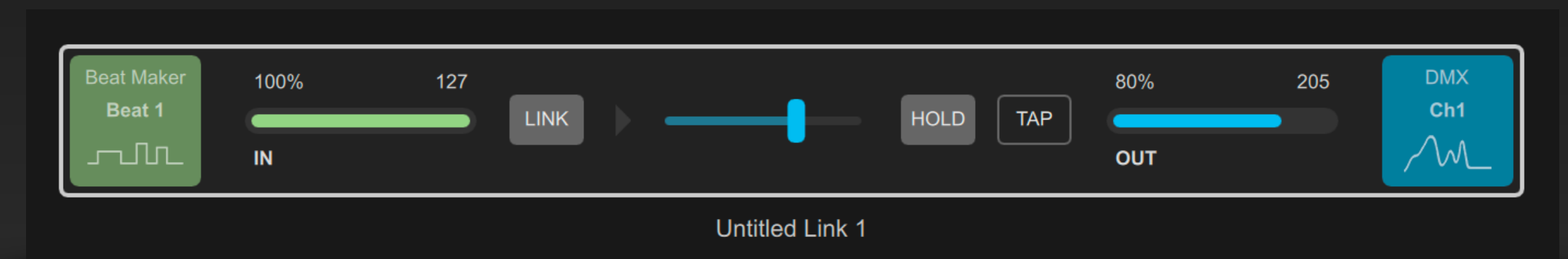
In the signal link table, the interface provided by the beat maker can be set as the input end of the signal link. When the beat maker is enabled, the generated beat will be continuously and periodically sent out from the signal bar input end in the form of a Note signal, thereby driving the signal change of the linked output end.

Select the Beat Maker interface at the input end of the signal bar



Set the beat number for which the beat maker emits a beat note signal in each loop

Set how long the note signal should last (in beats)

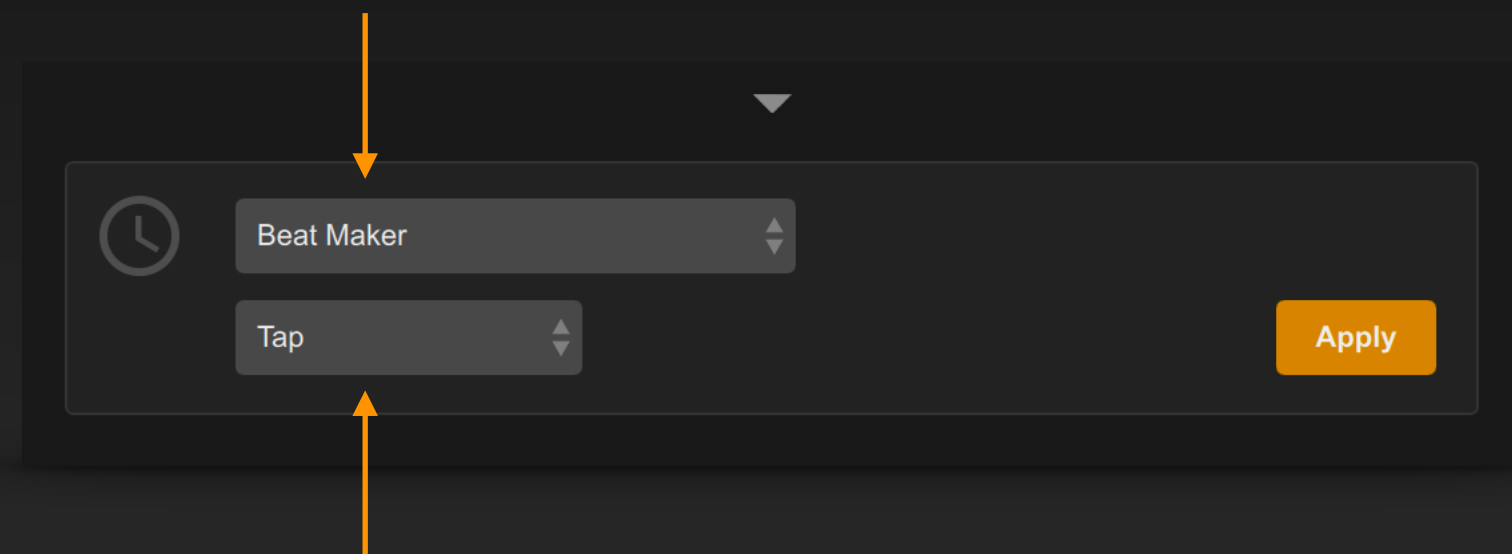


As in this example, the note generated by the beat maker drives the light to continuously alternate between light and dark (breathing light).

Beat Maker Interface

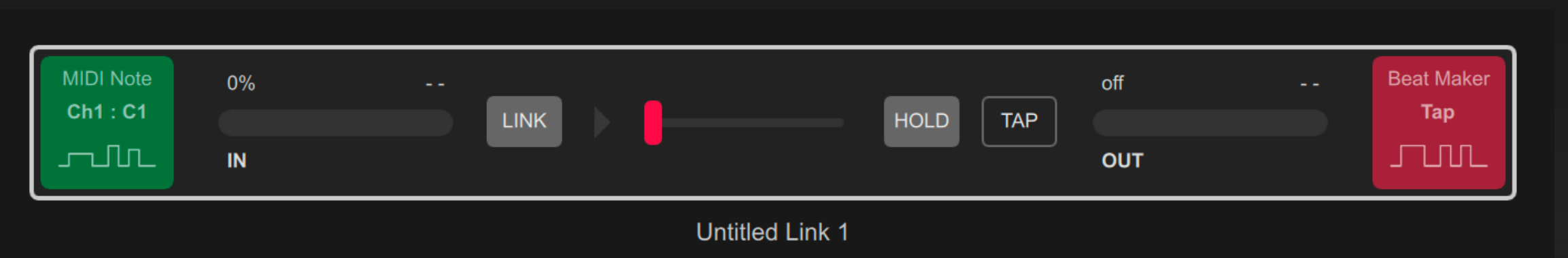
The interface provided by the beat maker can also be set as the output end of the signal link, which is used to dynamically change the setting parameters of the beat maker according to the changes of the linked input signal.

Select the Beat Maker interface at the output end of the signal bar



Select the control channel:

- BPM Change Dynamically change the BPM number by an analog signal
- Quantum Change Dynamically change the number of beats per measure by an analog signal
- Run ON Start/stop the beat maker by a binary signal
- Link ON Start/stop Ableton Link sync by a binary signal
- Tap Trigger the tap action by a binary signal for dynamic BPM calculation



In this example, the input MIDI Kick drum note dynamically triggers the beat maker's TAP action, thereby dynamically updating the BPM speed.

Summary

- Learn to manage signal bars in the signal link table
- Learn to use the interfaces of keyboard, sound card, and screen
- Learn to use Preset Launcher
- Learn to use Beat Maker