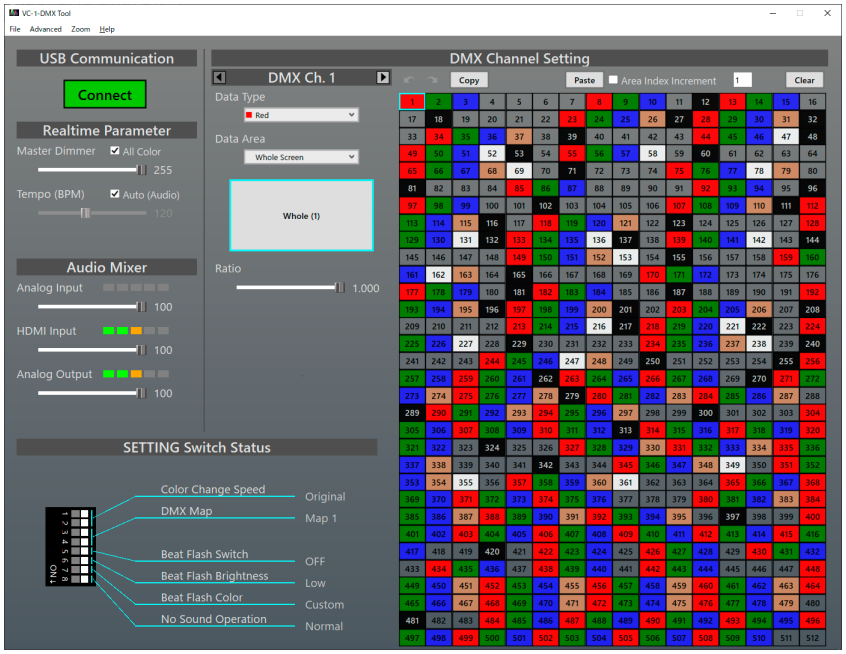


VC-1-DMX

Using the VC-1-DMX Configuration Software (Version 2.1)

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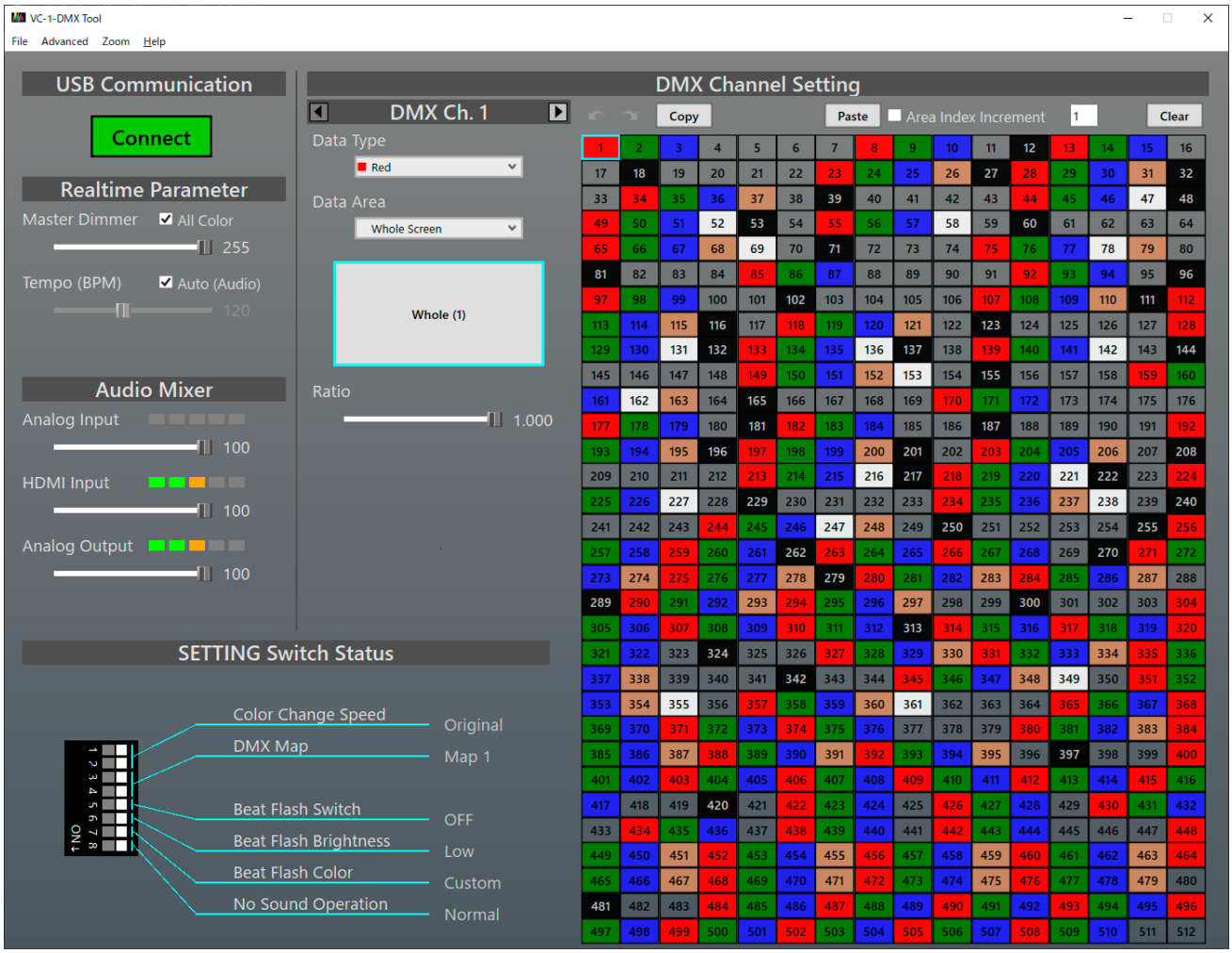
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Using the VC-1-DMX Configuration Software (Version 2.1)

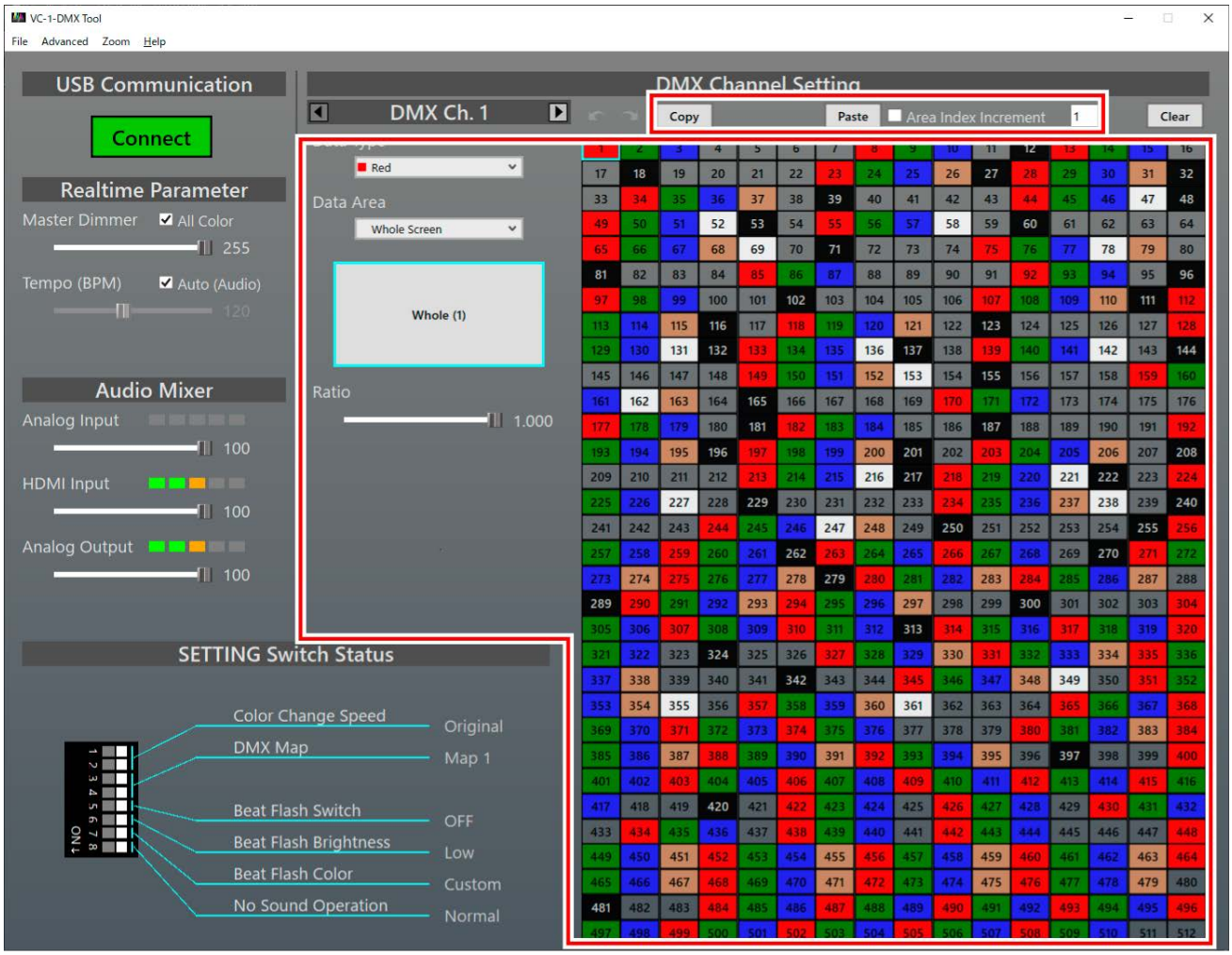
You can configure the following operations by using the VC-1-DMX configuration software (hereafter "VC-1-DMX Tool").

- **Change the settings of the VC-1-DMX**
- **Set the channel information for controlling DMX-compatible equipment from the VC-1-DMX**



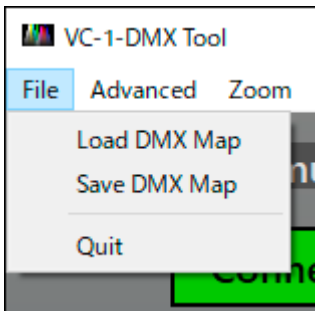
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Panel Descriptions



File Menu

Use this menu to import and export the DMX map (channel settings), and to quit the app.



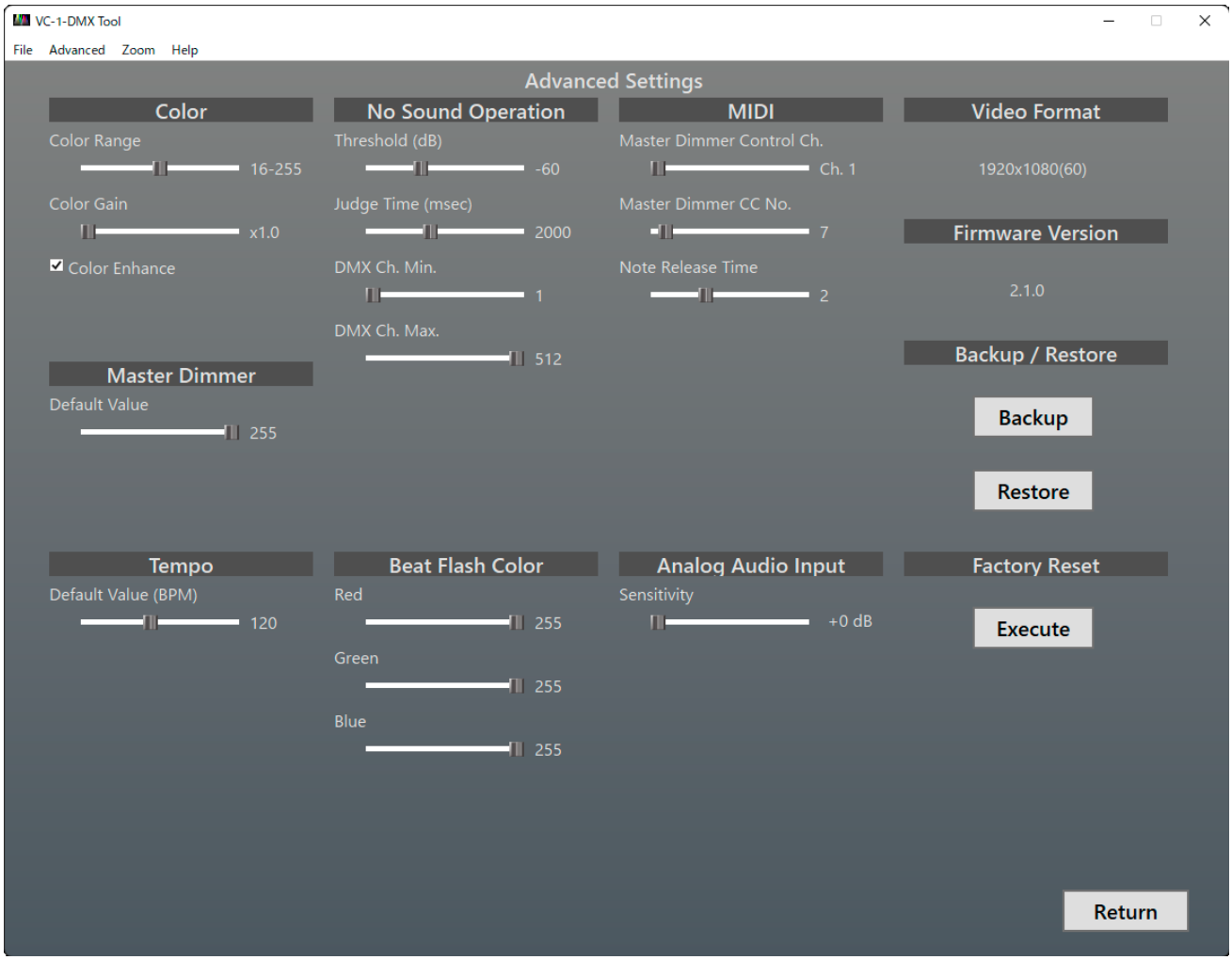
Name	Explanation
Load DMX Map	Imports (loads) the DMX settings from the DMX map file.
Save DMX Map	Exports (saves) the DMX settings to the DMX map file.
Quit	Quits the app.

Advanced Menu

These are the detailed settings for the VC-1-DMX.

Advanced Settings

Use this screen to make detailed settings for how the VC-1-DMX operates.



Color

Parameter	Explanation
Color Range	Sets the color range for the input video. Values lower than 16 or higher than 235 might not be output, depending on the video equipment that you connect. Adjust this according to the video equipment that is to be connected.
Color Gain	The input video analysis result (value) is multiplied by the color ratio you specify.
Color Enhance	Emphasizes the saturation detected from the analysis of the input video.

Master Dimmer

Parameter	Explanation
Default Value	Sets the default value for Master Dimmer that's applied when you turn on the power.

Tempo

Parameter	Explanation
Default Value	Sets the default value for the tempo that's applied when you turn on the power.

No Sound Operation

This sets the operating conditions for when "No Sound Operation" (a function that automatically turns off the lighting when the audio input is silent) is enabled.

MEMO

This function is enabled when setting switch "8" of the VC-1-DMX is set to ON.

Parameter	Explanation
Threshold (dB)	Sets the sound level that is considered as "silent".
Judge Time (msec)	Sets the amount of time before the lighting is turned off, after the sound level has been determined to be "silent".
DMX Ch. Min.	Sets the range of the DMX channel that's used when the No Sound Operation function is in use. The applicable range is from the channel set in "DMX Ch. Min." to the channel set in "DMX Ch. Max.".
DMX Ch. Max.	

Beat Flash Color

This configures the "Beat Flash" function, which flashes the lighting in time with the tempo of the audio input.

MEMO

- This function is enabled when setting switch "5" of the VC-1-DMX is set to ON.
- When setting switch "7" of the VC-1-DMX is set to OFF, the lighting flashes with the color you specify in the "Beat Flash Color" parameters.

Parameter	Explanation
Red	Set the intensity of the red, green and blue light respectively that flashes in time with the audio beat.
Green	
Blue	

MIDI

Here are the settings for MIDI messages that are received.

Parameter	Explanation
Master Dimmer Control Ch.	Sets the receive channel for the control change messages that control the master dimmer. * This setting is also applied to the receive channel used for switching between DMX maps using program change or control change messages.
Master Dimmer CC No.	Sets the control change messages that control the master dimmer.
Note Release Time	Sets how much time elapses before turning off the lighting, after a note-off message is received.

Analog Audio Input

Parameter	Explanation
Sensitivity	Adjusts the sensitivity to audio input from the AUDIO INPUT jacks.

Video Format

Shows the format used for video inputted to the HDMI input.

Firmware Version

Shows the firmware version of the VC-1-DMX.

Backup / Restore

Saves (backs up) the settings for the VC-1-DMX and DMX map together.

You can use the saved data to restore your settings at a later date.

This is useful for configuring more than one VC-1-DMX to use the same settings.

Name	Explanation
[Backup] button	Saves all of the VC-1-DMX's settings to a file.
[Restore] button	Restores the settings of the VC-1-DMX from the file you saved.

Factory Reset

Name	Explanation
[Execute] button	Returns the settings of the VC-1-DMX to their factory-set state.

Filter Settings

This is the audio filter settings screen, where you can control how the lighting works in response to the audio that's input to the VC-1-DMX.

Use this to configure the filters that respond to the frequency ranges of the input audio.

The frequency ranges within which the filters respond are set using the Min slider (minimum value) and the Max slider (maximum value).



USB Communication

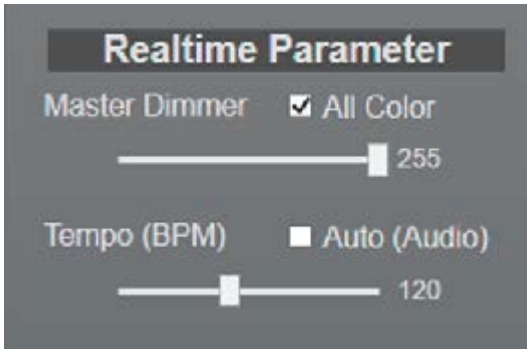
Starts communications between your computer and the VC-1-DMX.



Name	Explanation
[Connect] button	Starts communications with the VC-1-DMX.

Realtime Parameter

These are the parameters for setting the brightness of the lighting, as well as the tempo.



Name	Explanation
Master Dimmer	Sets the brightness of the lighting.

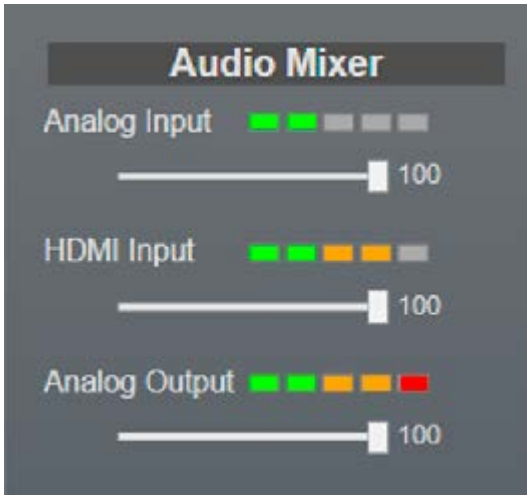
All Color	Explanation
On	This setting adjusts the brightness by changing the values of all colors.
Off	Sets the brightness for the channel set in “Master Dimmer”.

Tempo (BPM): Specifies the tempo.
This applies to the channel set in “Rotate Speed”.

Auto (Audio)	Explanation
On	The tempo is analyzed based on the audio input, and the value is set automatically.
Off	Allows you to manually set the tempo.

Audio Mixer

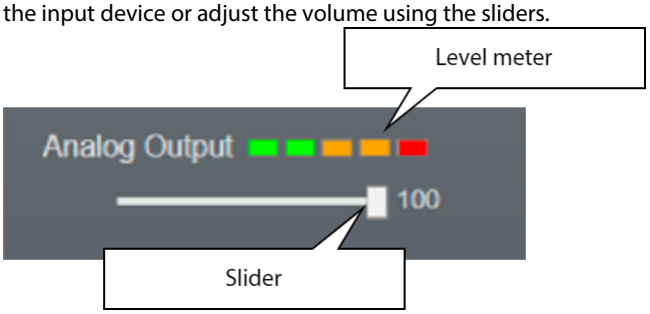
Adjusts the volume of audio that's output from the AUDIO OUT jacks.



Name	Explanation
Analog Input	Adjusts the volume of audio that's input to the AUDIO IN jacks (analog audio input).
HDMI Input	Adjusts the volume of audio input to the HDMI IN connector.
Analog Output	Adjusts the volume of audio output from the AUDIO OUT jacks (analog audio output).

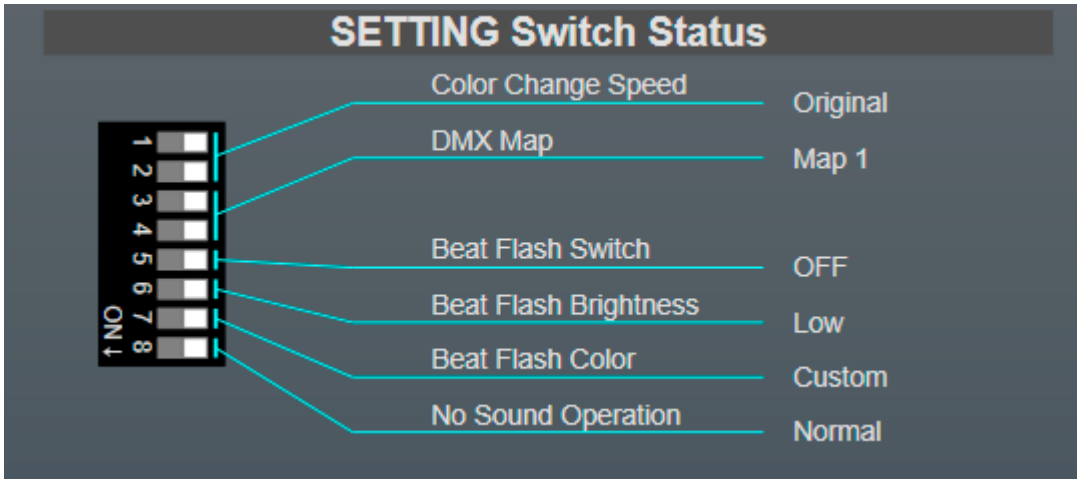
MEMO

- You can't adjust the volume for audio output from the HDMI THRU connector (the audio input to the HDMI IN connector is output as-is).
- If the rightmost light (red) on the level meter lights up, the volume may be too loud. If this happens, adjust the volume on the input device or adjust the volume using the sliders.



SETTING Switch Status

This shows the status of the SETTING switches of the VC-1-DMX.



MEMO

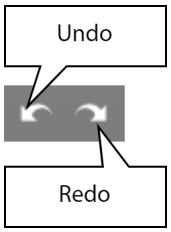
You can't change the status of the VC-1-DMX's SETTING switches from this screen.

DMX Channel Setting

This setting is for configuring the respective DMX channels.

[Undo] / [Redo] button

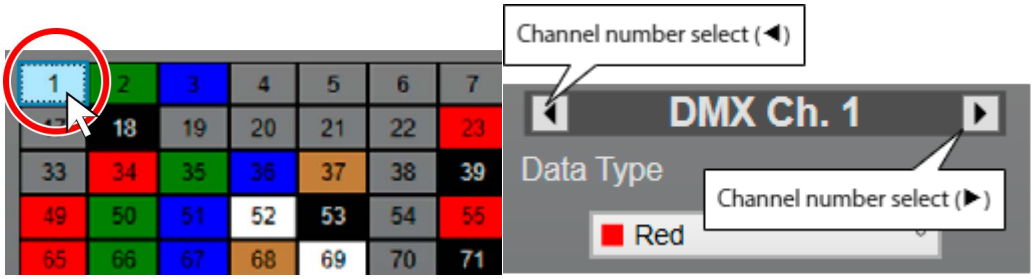
This lets you undo or redo the assignment map operations.



[Copy] / [Paste] buttons

You can copy the settings from one channel to another.

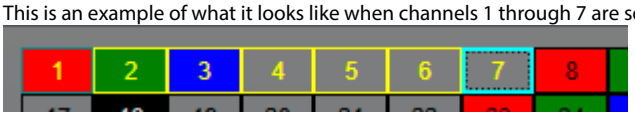
1. **Click the channel to copy, or use the channel number select button to select the channel.**



MEMO

You can select a range of channels.

1. Click the starting channel for the range to select.
2. While holding the [Shift] key on your computer's keyboard, click the ending channel in the range to select.
   This is an example of what it looks like when channels 1 through 7 are selected as a range.



2. **Click the [Copy] button.**

   This copies the selected channel settings.

MEMO

- You can also hold down the [Ctrl] key and press the [C] key on your computer to copy.
- You can cut the data (which deletes the settings for the selected channel while copying them to the clipboard) by holding down the [Ctrl] key on your computer and pressing the [X] key.

3. **Click the channel you want to copy to, or use the channel number select button to select the channel.**
4. **Click the [Paste] button.**

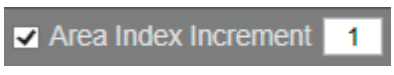
   The channel settings you copied are pasted to the copy destination.

MEMO

You can also hold down the [Ctrl] key and press the [V] key on your computer to paste.

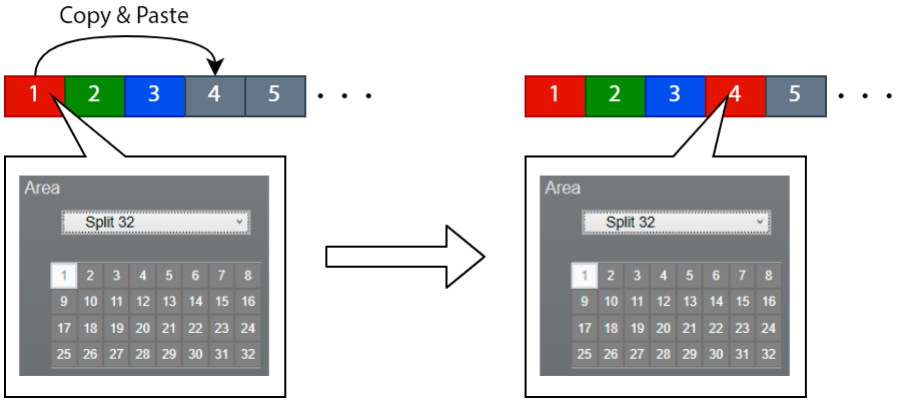
Pasting while incrementing the area number (Area Index Increment)

When copying the channel settings, you can paste while incrementing the area number by a fixed amount.

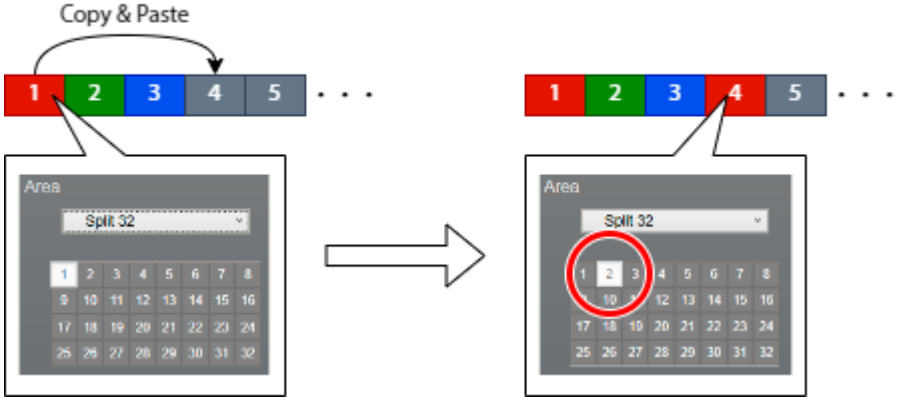


For instance, by setting the Area Index Increment (how much to increase the area number) to "1" and then copying and pasting, the area number of the channel to copy is incremented by one when pasting.

When Area Index Increment is "off"(0)



When Area Index Increment is "1"



MEMO

- If the result of incrementing the Area Index Increment exceeds the number of area numbers, this sets the upper limit for the area number.
- You can reduce the pasted area number by inputting a negative number for Area Index Increment.
- If the result of inputting a negative value for the Area Index Increment goes below "1", the area number is set to "1".

[Clear] button

This deletes the settings configured for a channel (replacing them with "Fixed Value=0").

1. **Click the channel to delete, or use the channel number select button to select the channel.**
2. **Click the [Clear] button.**

   This deletes the settings for the selected channel (setting them to "Fixed Value=0").

MEMO

- You can also press the [Delete] key on your computer to delete the channel's settings.
- You can cut the data (which deletes the settings for the selected channel while copying them to the clipboard) by holding down the [Ctrl] key on your computer and pressing the [X] key.

Data Type Parameters

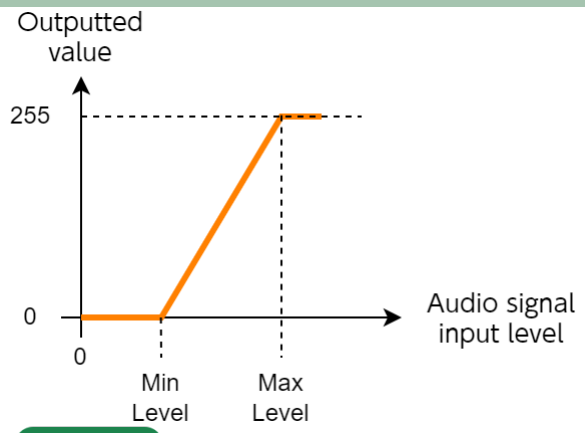
Select the parameters to assign to the DMX channels.

Set the parameters so that the function that the VC-1-DMX controls (data type) matches the function on the DMX-compatible equipment (lighting equipment) you're using.

When you select a data type, the setting parameter is shown that corresponds to that function.

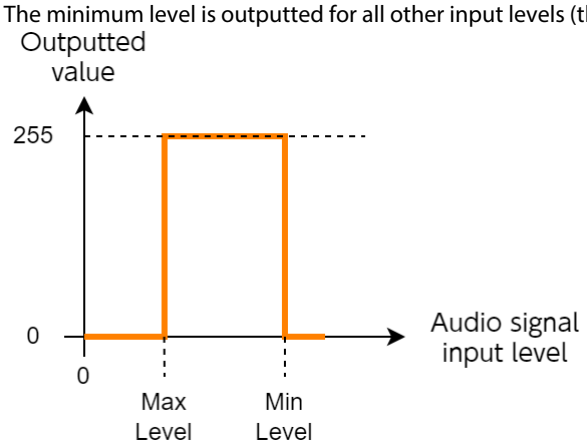
Data Type Parameters	Setting parameter	Explanation
Fixed Value	Outputs a fixed value.	
	Value	Sets the value to output.
Master Dimmer	-	Outputs the Master Dimmer value set in “Realtime Parameter”.
Red Green Blue Amber Yellow Purple Cyan White	This analyzes the video in the region specified by “Area”, and outputs the intensity of each color.	
	Area	Selects the video region to analyze. For details, refer to “Area parameters”.
	Ratio	Sets the ratio for the value to output in respect to the video analysis results.
	Audio Link	The color strength of the analyzed video is output along with the audio.
MIDI (Note)	This converts the velocity values of note-on messages received by the MIDI IN connector, to be output as DMX-compatible data. “0” is output when a note-off message is received.	
	Value Offset	Adds the Value Offset value to the velocity value of the note-on/note-off messages received, and outputs the result.
	Value Gain	Multiplies the velocity value of the note-on/note-off messages received times the Value Gain value, and outputs the result.
	Channel	Sets which MIDI channel is used for receiving.
	Note Number	Sets the note number of the note-on/note-off messages received.
MIDI (CC)	This converts the control change message values received by the MIDI IN connector, to be output as DMX-compatible data.	
	Value Offset	Adds the Value Offset value to the control change messages received, and outputs the result.
	Value Gain	Multiplies the value of the control change message received times the Value Gain value, and outputs the result.
	Channel	Sets which MIDI channel is used for receiving.
	Control Change	Sets the control number for control change messages to be received.
Red (Pickup 3 Color) Green (Pickup 3 Color) Blue (Pickup 3 Color)	This extracts only three characteristic colors from the video region specified in “Area”, as red, green and blue.	
	Area	Selects the video region to analyze. For details, refer to “Area parameters”.
	Ratio	Sets the ratio for the value to output in respect to the video analysis results.
	Audio Link	The characteristic color of the analyzed video is output along with the audio.
Red (Pickup 4 Color) Green (Pickup 4 Color) Blue (Pickup 4 Color) White (Pickup 4 Color)	This extracts only four characteristic colors from the video region specified in “Area”, as red, green, blue and white.	
	Area	Selects the video region to analyze. For details, refer to “Area parameters”.
	Ratio	Sets the ratio for the value to output in respect to the video analysis results.
	Audio Link	The characteristic color of the analyzed video is output along with the audio.
Rotate Speed	Outputs a value corresponding to the tempo that was set (or the tempo that the VC-1-DMX detected).	
	Min. Speed	Sets the value (minimum) that’s output when the tempo is the slowest (BPM=20).
	Max. Speed	Sets the value (maximum) that’s output when the tempo is the fastest (BPM=250).
Audio Filter	These parameters convert specific frequency range levels from the audio input signal into the DMX signals to be outputted.	
	Channel	Selects the channel used for analyzing the audio signals. Left: The left channel is used for analyzing the audio signals. L+R: The left and right channels are used for analyzing the audio signals. Right: The right channel is used for analyzing the audio signals.
	Filter No	Selects the frequency range to analyze. The frequency range that each filter controls is configured in the “Filter Settings” screen.
	Min Level Max Level	Sets the input level for the audio signal to which the filter you selected in “Filter No” responds. The greater that the input level is when compared to Min Level, the larger the value that is output. When the input level reaches the Max Level, the maximum value is output.

Data Type Parameters	Setting parameter	Explanation



MEMO

When the Min Level is set to a greater value than Max Level, the maximum level is only outputted when the input level falls between the Max Level and the Min Level.
The minimum level is outputted for all other input levels (the lighting turns off).

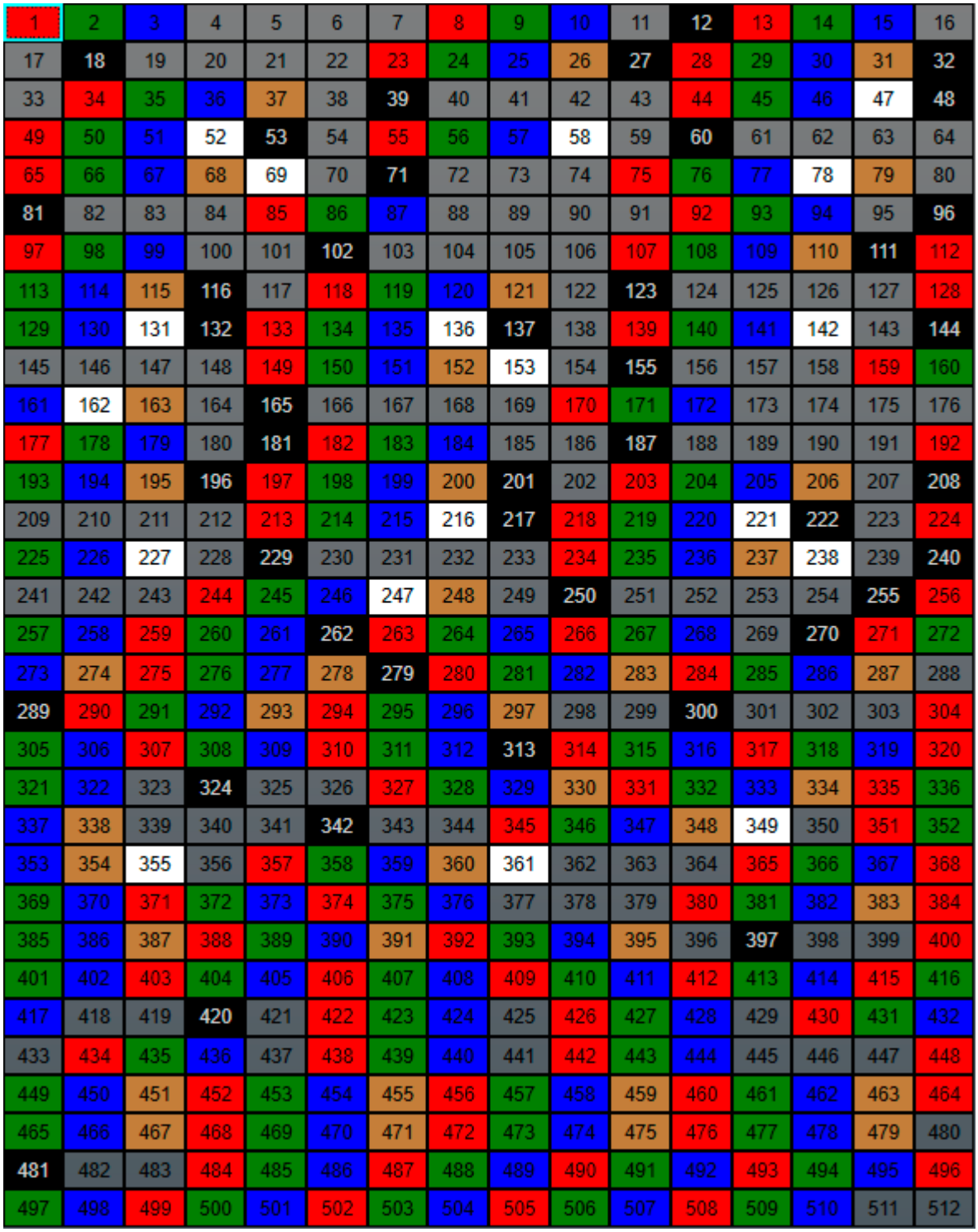


By making the same settings for multiple filters, you can switch between lighting (such as different colors) that reacts according to the input level.

Assignment map

The colors are lit up on the assignment map according to the data type assigned to each DMX channel.

You can select the DMX channels by clicking on the map.



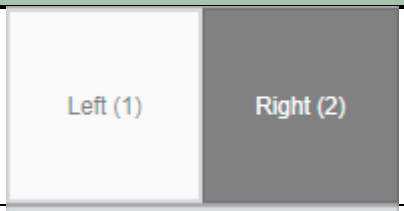
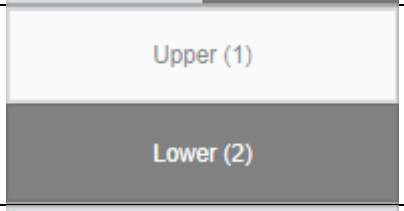
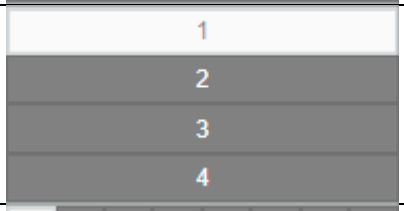
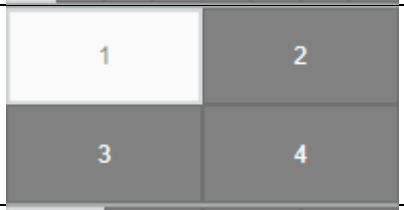
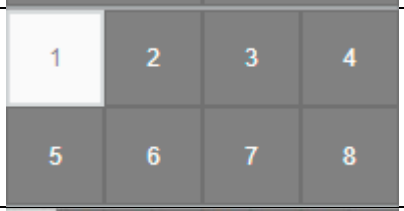
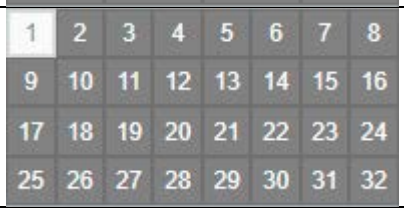
Area parameters

Confirms the video region to analyze.

If the region to analyze has been split, click on a region number to analyze.

The region to be analyzed is highlighted in white.

Area parameters	Explanation	
Whole Screen	Analyzes by averaging out the entire screen.	Whole (1)

Area parameters	Explanation	
Left / Right Half	Splits the screen in half (left and right).	
Upper / Lower Half	Splits the screen in half (upper and lower).	
Row	Splits the screen into four rows.	
Column	Splits the screen into eight columns.	
Split 4	Splits the screen into four parts.	
Split 8	Splits the screen into eight parts.	
Split 32	Splits the screen into 32 parts.	

Switching between DMX maps from an external MIDI device

You can use a MIDI device connected to the VC-1-DMX (such as a synthesizer equipped with a MIDI connector, a DAW app installed on your computer and so on) to switch between DMX maps.

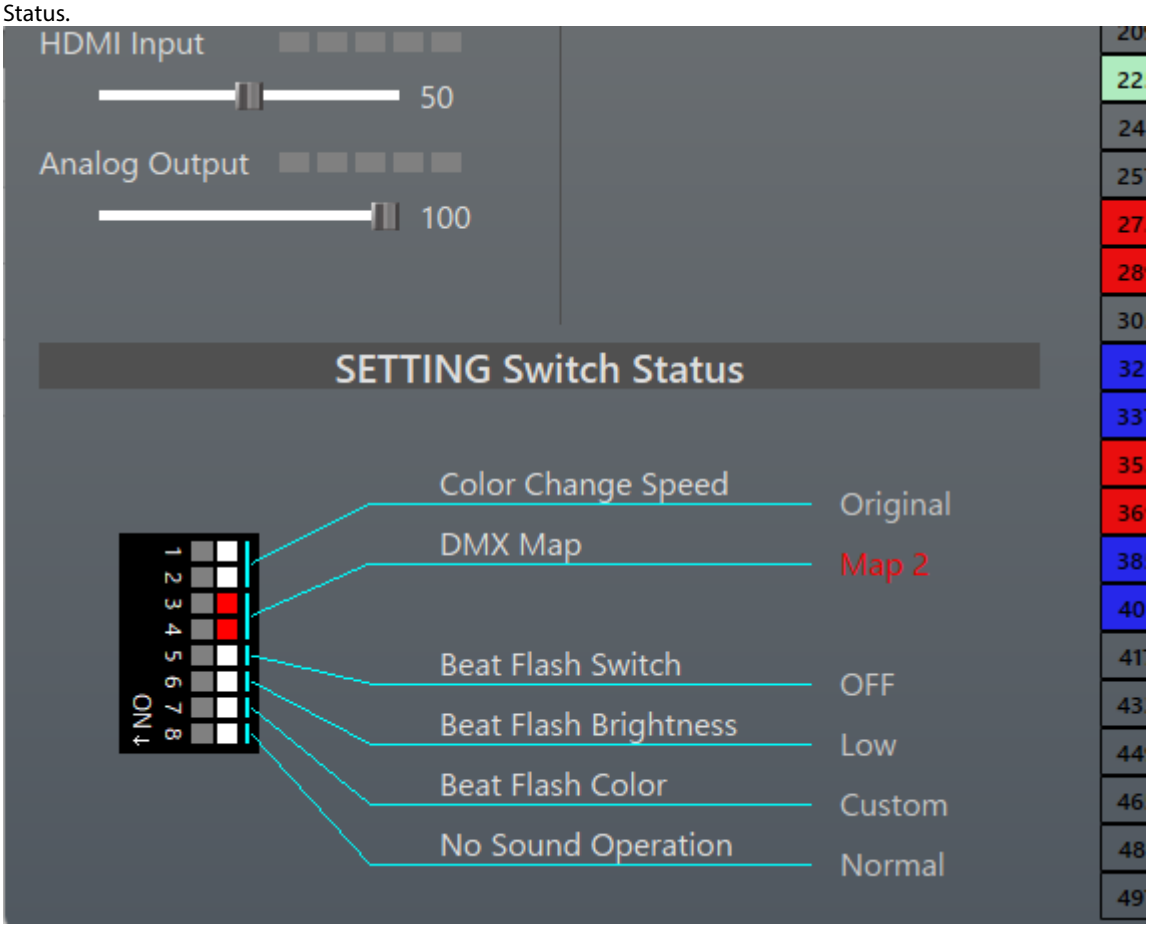
The DMX map switches when one of the following messages is transmitted from the MIDI device connected to the VC-1-DMX.

Messages transmitted from the MIDI device	DMX map to switch
CC80	DMX map 1
CC81	DMX map 2
CC82	DMX map 3
CC85	DMX map 4
One of these messages: PC1, PC11, PC21...PC121 (*1)	DMX map 1
One of these messages: PC2, PC12, PC22...PC122 (*1)	DMX map 2
One of these messages: PC3, PC13, PC23...PC123 (*1)	DMX map 3
One of these messages: PC4, PC14, PC24...PC124 (*1)	DMX map 4

(*1) The VC-1-DMX recognizes program change messages for which the last digit is from 1 to 4.

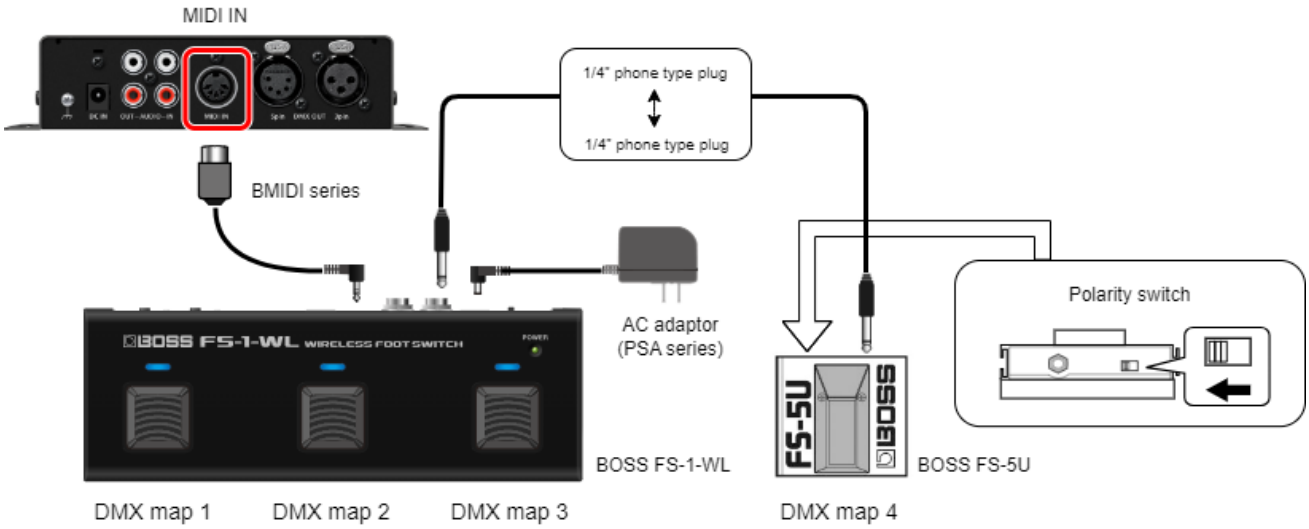
MEMO

The settings you adjust for the various parameters are automatically saved to the currently selected DMX map.
You can check the currently selected DMX map (the DMX map of the save destination) from "DMX Map" in SETTING Switch Status.



Example of switching between DMX maps by using the BOSS FS-1-WL

You can use your feet to switch between DMX maps when you connect a BOSS FS-1-WL or FS-5U (both sold separately).



MEMO

We recommend that you connect an AC adaptor (PSA series, sold separately) when using the BOSS FS-1-WL.

VC-1-DMX

Using the VC-1-DMX Configuration Software (Version 2.1)

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