



SP-404MK2 App

SP-404MK2 App

SP-404MKII App User's Guide

Table of contents

About the SP-404MK2 App.....	3	Importing Patterns	20
Launching the SP-404MK2 App.....	4	Exporting Patterns	21
Basic Configuration of the SP-404MK2 App.....	5	Organizing the Patterns	22
Editing a Sample (“Samples” Screen).....	8	Moving the Pattern of a Pad.....	22
Setting the Playback and Loop Ranges (“Info” Tab)	9	Copying/Exchanging Patterns Between Pads	22
Setting the Effect to Apply to a Pad (“Prms” Tab)	11	Deleting the Pattern from a Pad.....	23
Setting the Playback Speed and Pitch of a Sample (“TS/PS” Tab)	12	Setting the Tempo and Volume (“Settings” Screen).....	25
Making Fade-in/Fade-out Settings (“AHR” Tab).....	13	Importing/Exporting a Project	26
Importing a Sample	14	Importing a project	26
Exporting Samples	15	Exporting a Project	28
Organizing the Samples	16	Importing a Project from the SP-404SX/A	30
Moving the Sample of a Pad	16	Deleting a Project	32
Copying/Exchanging Samples Between Pads	16	Editing the App Settings.....	33
Deleting a Sample from a Pad	17	Error messages.....	35
Editing a Pattern (“Patterns” Screen)	19		

About the SP-404MK2 App

With the SP-404MK2 App, you can use your computer to edit the parameters of the SP-404MK2 and to manage your projects.

In addition to SP-404MK2 data, you can use SMF data that was created on the SP-404SX/A or on your DAW.

System requirements

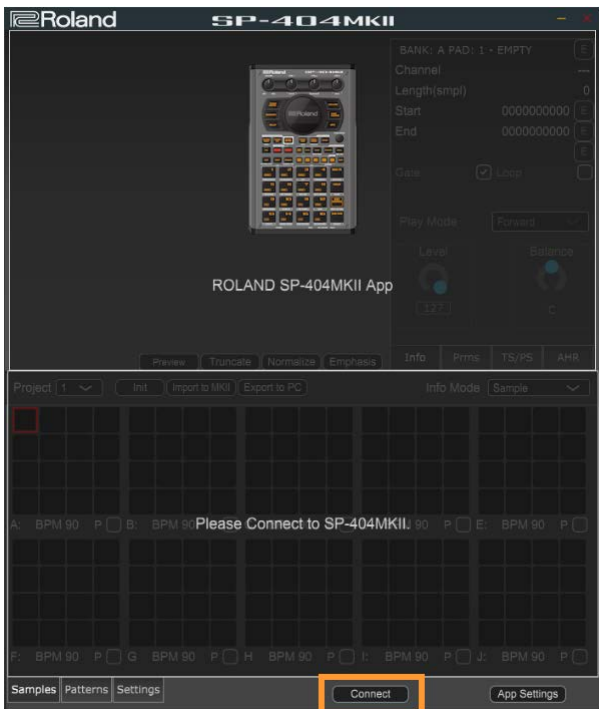
The SP-404MK2 App can be used on a computer that fulfills the following conditions.

OS	Windows 10 or later	macOS 10.15 or later
Recommended Resolution	720 × 860 (pixels) or more	

Launching the SP-404MK2 App

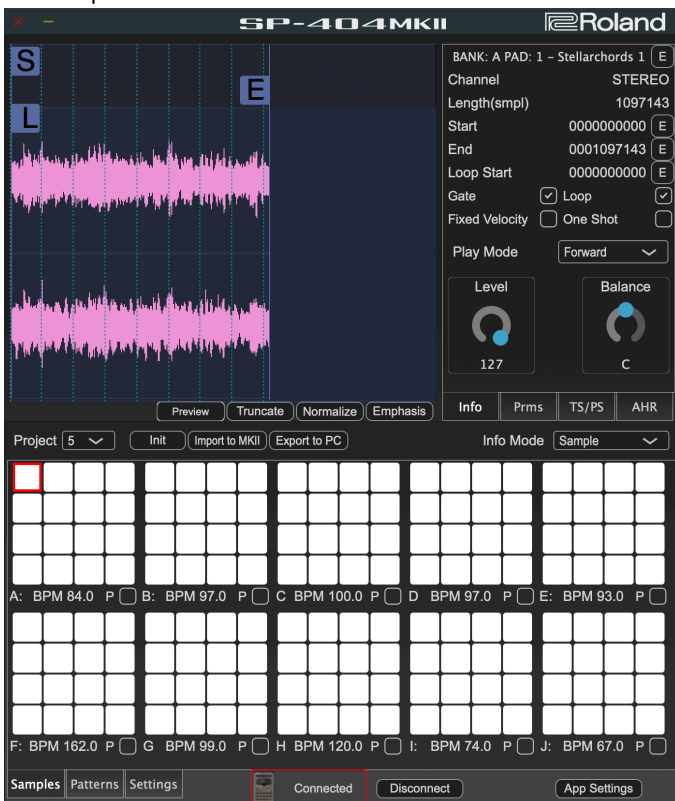
Follow the steps below to connect the SP-404MK2.

1. Use a USB cable to connect the SP-404MK2 to your computer, and then turn on the SP-404MK2.
2. Launch the SP-404MK2 App.
3. Click "Connect."



NOTE

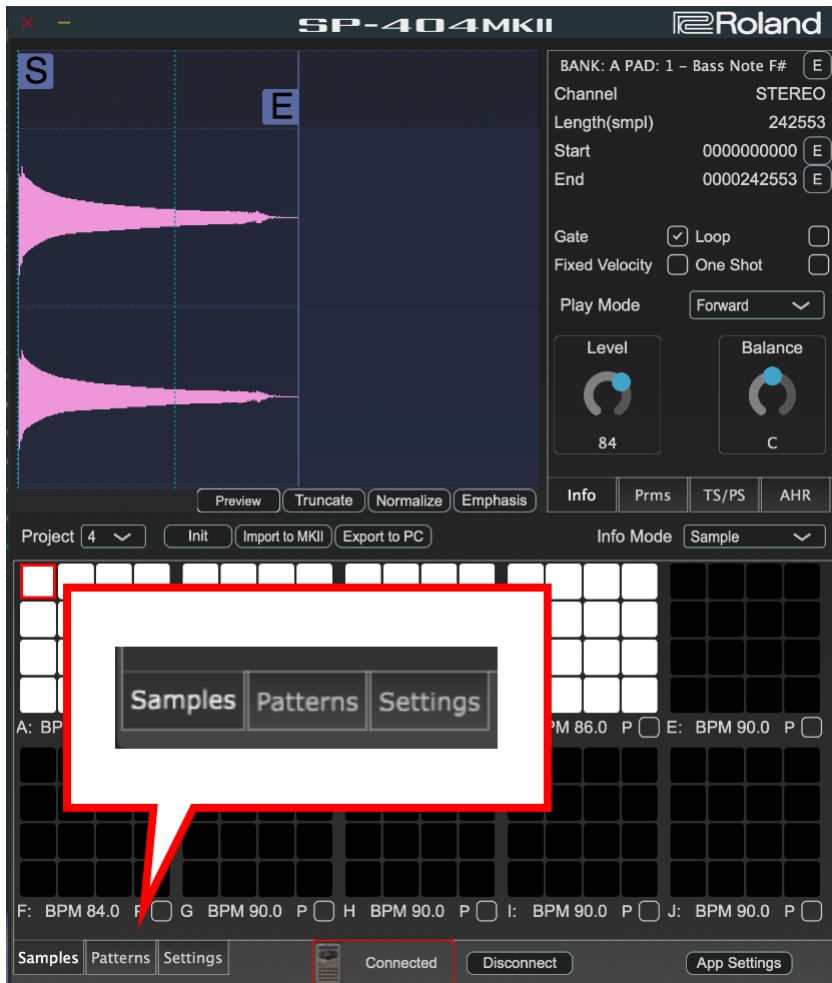
Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."
The Samples screen is shown once the connection is made.



Basic Configuration of the SP-404MK2 App

Using the SP-404MK2 App involves switching between the Samples, Patterns and Settings screens.

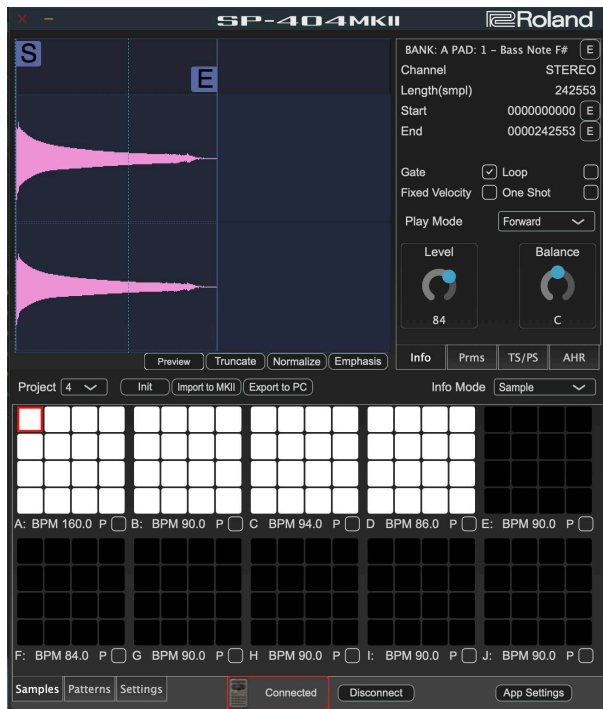
Click the tabs at lower left to switch between the screens.



Samples screen

Use this screen to edit sample waveforms, pitches and playback speeds, as well as to organize the pad samples.

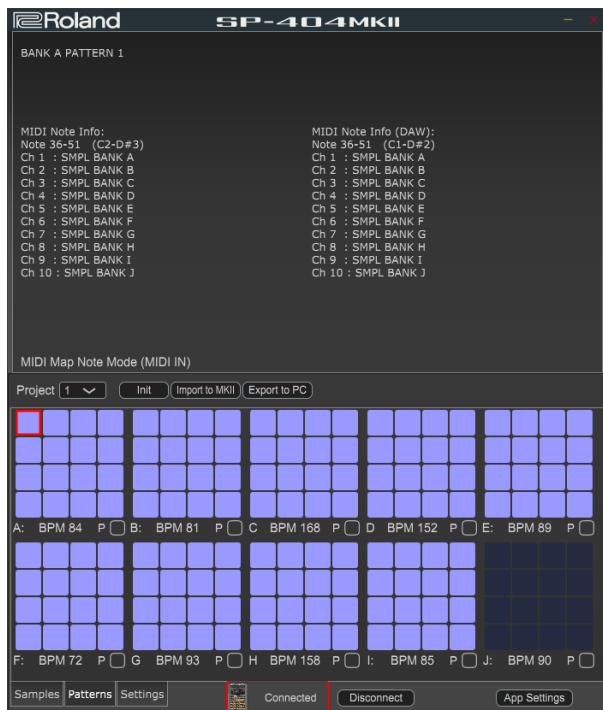
This offers convenient features only available with the SP-404MK2 App, like viewing all samples from banks A–J at once, or importing samples from the SP-404SX/A.



Patterns screen

Use this screen to organize the patterns stored in the pads.

The SP-404MK2 App makes it possible to use the SP-404SX/A pattern data and SMF data (.mid) created on your DAW, as well as pattern data from the SP-404MK2 App.

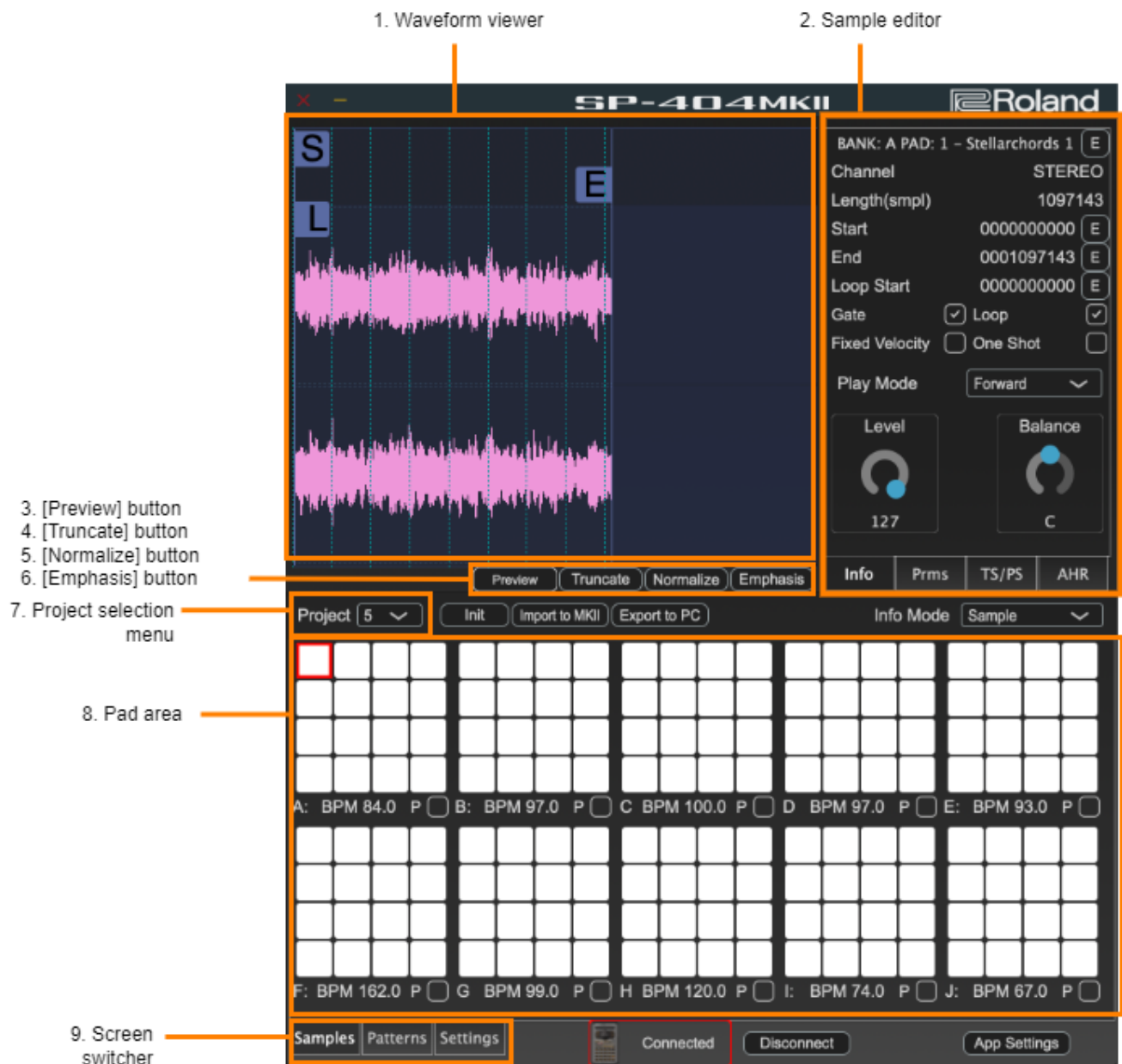


Settings screen

Use this screen to set the common project tempo and the tempo/volume for each bank.



Editing a Sample ("Samples" Screen)



1. Waveform viewer

Displays the waveform of the selected sample.

The "S" icon (S) indicates the playback start position, and the "E" icon (E) indicates the playback end position.

The "L" icon (L) is shown when the loop is on. The loop range is from the "L" icon to the "E" icon.

2. Sample editor

Use this to edit the parameters of the selected sample.

You can edit different parameters for each tab.

[Setting the Playback and Loop Ranges \("Info" Tab\)\(P.9\)](#)

[Setting the Effect to Apply to a Pad \("Prms" Tab\)\(P.11\)](#)

[Setting the Playback Speed and Pitch of a Sample \("TS/PS" Tab\)\(P.12\)](#)

[Making Fade-in/Fade-out Settings \("AHR" Tab\)\(P.13\)](#)

3. [Preview] button

Press this to play back the selected sample on the SP-404MK2.

You can also use the space bar key on your computer to trigger playback instead of the [Preview] button.

4. [Truncate] button

Trims (deletes) the sample's audio regions before the start point and after the end point.

5. [Normalize] button

Increases the overall volume.

6. [Emphasis] button

Emphasizes the high-frequency sound.

7. Project selection menu

Switches between projects you wish to edit.

8. Pad area

This shows the pads for all banks.

The white pads (□) already contain an assigned sample, and the black pads (■) are empty.

9. Screen switcher

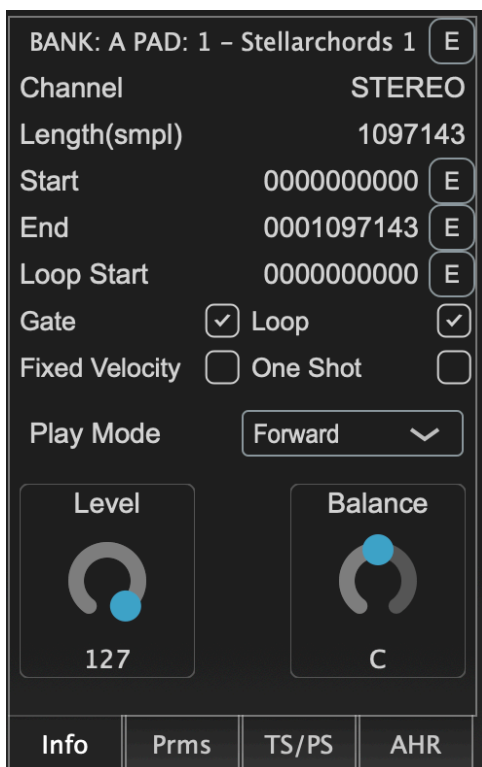
Switches between screens to edit.

→ "Basic Configuration of the SP-404MK2 App(P.5)"





Setting the Playback and Loop Ranges ("Info" Tab)

Use this screen to edit settings such as sample and loop playback ranges, gate and loop on/off and so forth.

Click the [E] button for each parameter you want to set.



Parameter	Value	Explanation
Channel	STEREO, MONO	Indicates whether the sample is stereo or mono.
Length(smpl)	0-1000000000	Displays the sample length.
Start	0-1000000000	Sets the playback start position. To edit, drag the "S" icon (S) in the waveform viewer.
End	0-1000000000	Sets the playback end position. To edit, drag the "E" icon (E) in the waveform viewer.
Loop Start	0-1000000000	Sets the loop range start position.

		To edit, drag the "L" icon () in the waveform viewer.
Gate	OFF, ON	Configures the gate. Select the checkbox () to turn this on.
Loop	OFF, ON	Configures the loop. Select the checkbox () to turn this on.
Fixed Velocity	OFF, ON	When this is ON, the velocity of each sample is set to always play back at 127 (the maximum).
One Shot	OFF, ON	Configures the One Shot Playback. Select the checkbox () to turn this on.
Play Mode	Forward, Reverse, Fwd Ping-Pong, Rev Ping-Pong	Switches the sample's playback direction ("Forward" or "Reverse").
Level	0-127	Adjusts the sample volume.
Balance	MONO(L), L50-C-R50, MONO(R)	Sets the stereo position of the sample.

Setting the Effect to Apply to a Pad (“Prms” Tab)

Use this screen to set which other pad plays at the same time that you play a certain pad, as well as the effects to apply to the pad.

BANK: A PAD: 1 – Stellarchords 1

Mute Group Off ▼

PAD Link Off ▼

BUS FX Assign BUS 1 ▼

Roll 1/4 ▼

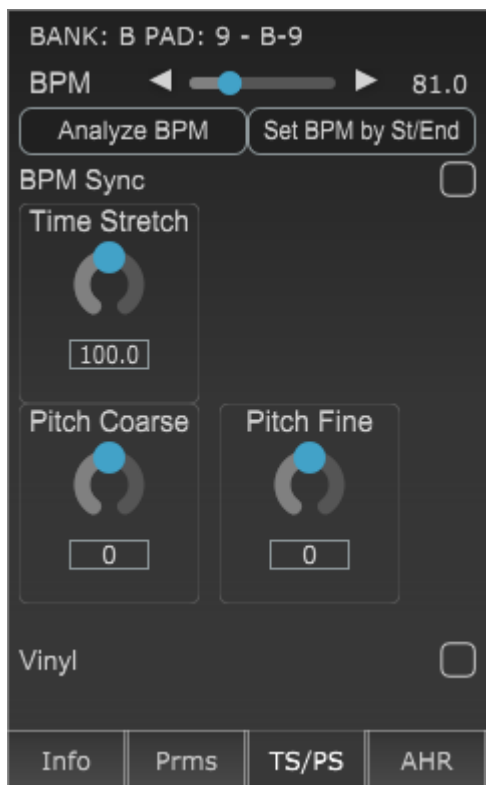
Chromatic Mode Mono ▼

Info
Prms
TS/PS
AHR

Parameter	Value	Explanation
Mute Group	Off, A–J	Selects the mute group.
PAD Link	Off, A–J	Selects the pad link group.
BUS FX Assign	DRY, BUS 1, BUS 2	Selects the bus to which the sample playback sound is sent.
Roll	Off, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64	Sets the roll interval (how quickly the roll repeats).
Chromatic Mode	Mono, Legato, Poly	Selects how the samples play (how they sound) in chromatic mode.

Setting the Playback Speed and Pitch of a Sample (“TS/PS” Tab)

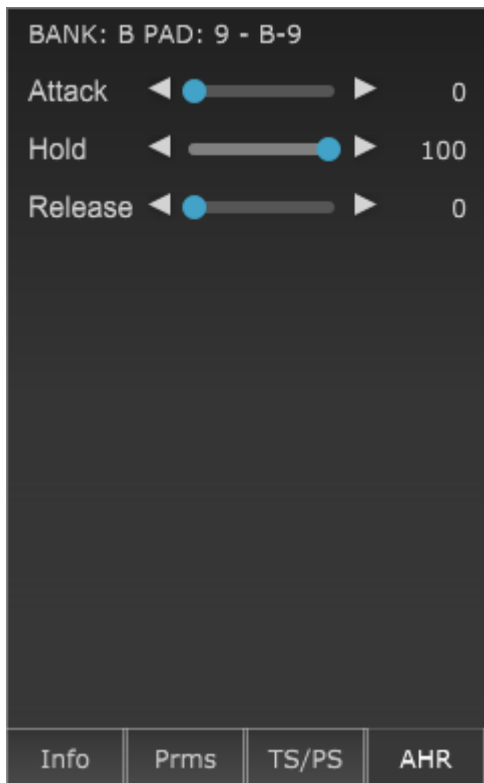
Use this screen to adjust the sample playback speed and pitch (key).



Parameter	Value	Explanation
BPM	40.0–200.0	Sets the sample’s BPM.
	Analyze BPM	Analyzes and automatically sets the sample’s BPM.
	Set BPM by St/End	Automatically sets the BPM to match the playback range.
BPM Sync	ON, OFF	Turns BPM Sync on/off. When you select the checkbox (<input checked="" type="checkbox"/>) to turn this on, the unit operates in sync with external clock input.
Time Stretch	50.0–150.0	Speeds up the sample by making it shorter, or slows it down by making it longer.
Pitch Coarse	-12–12	Sets the sample playback pitch.
Pitch Fine	-100–100	Fine-tunes the sample playback pitch.
Vinyl	ON, OFF	Turns vinyl mode on/off. When this is on, the playback speed and pitch can be changed at the same time, like an analog record.

Making Fade-in/Fade-out Settings ("AHR" Tab)

You can adjust how the fade-in and fade-out work.



Parameter	Value	Explanation
Attack	0–127	Sets the fade-in time.
Hold	1–100 (%)	The time from fade-in to fade-out is determined by its ratio to the overall sample time.
Release	0–127	Sets the fade-out time.

Importing a Sample

You can import audio data from your computer into the SP-404MK2 as a sample.

MEMO

Audio file formats that can be imported into the SP-404MK2 are as follows.

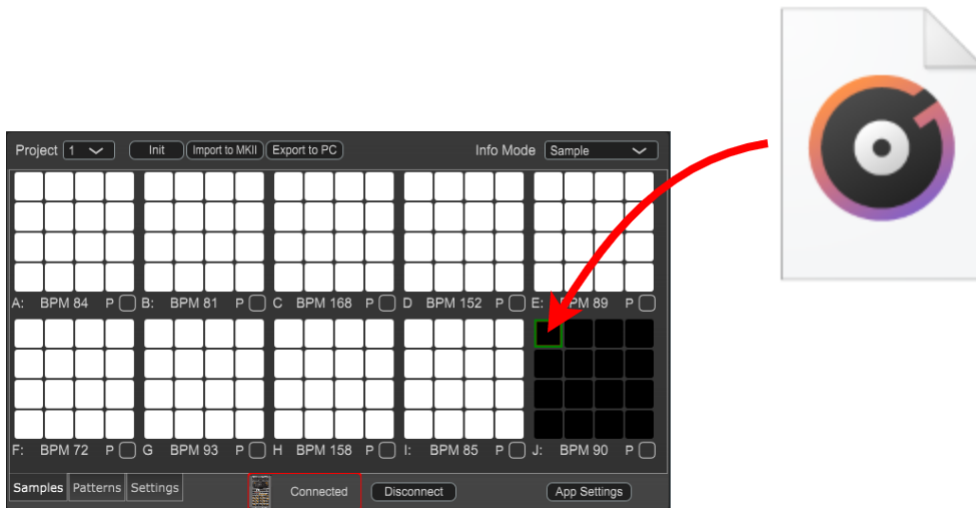
- When importing from SD card: 16-bit linear; WAV, AIFF, MP3
- When importing with the SP-404MK2 App: WAV, AIFF, MP3, FLAC, M4A (ALAC, AAC)
- * Use the macOS version of the SP-404MK2 App to import ALAC or AAC data.
- * In some cases, it may not be possible to import files of an extremely short duration (shorter than 100 ms).
- * Filenames that contain double-byte characters may not display correctly.

1. Drag and drop the sample files from your computer to an empty pad on the SP-404MK2 App.

The popup message "Working..." is shown. If you decide to cancel the import, click "Cancel."

MEMO

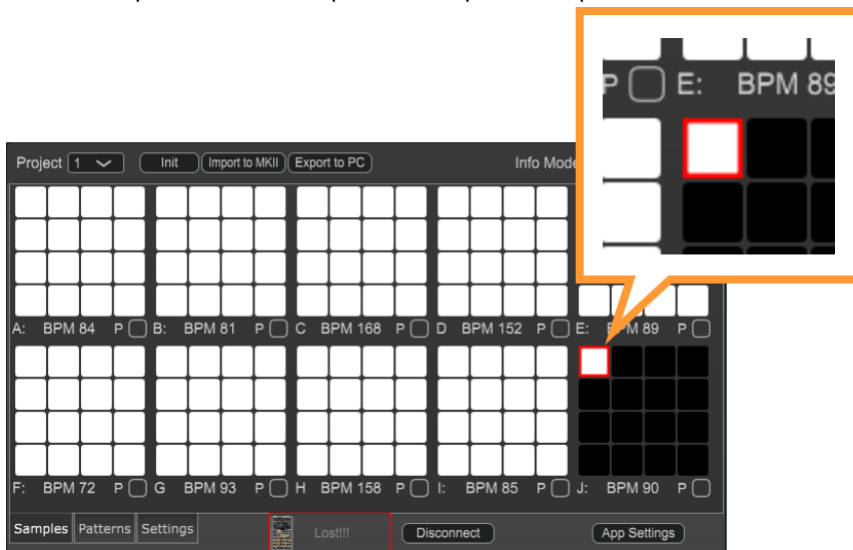
You can also select multiple samples, and drag and drop them to empty pads.



NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."
 When you drag and drop a sample to a pad that already contains an assigned sample, that pad's sample is overwritten. Use caution, as this deletes the previous sample.

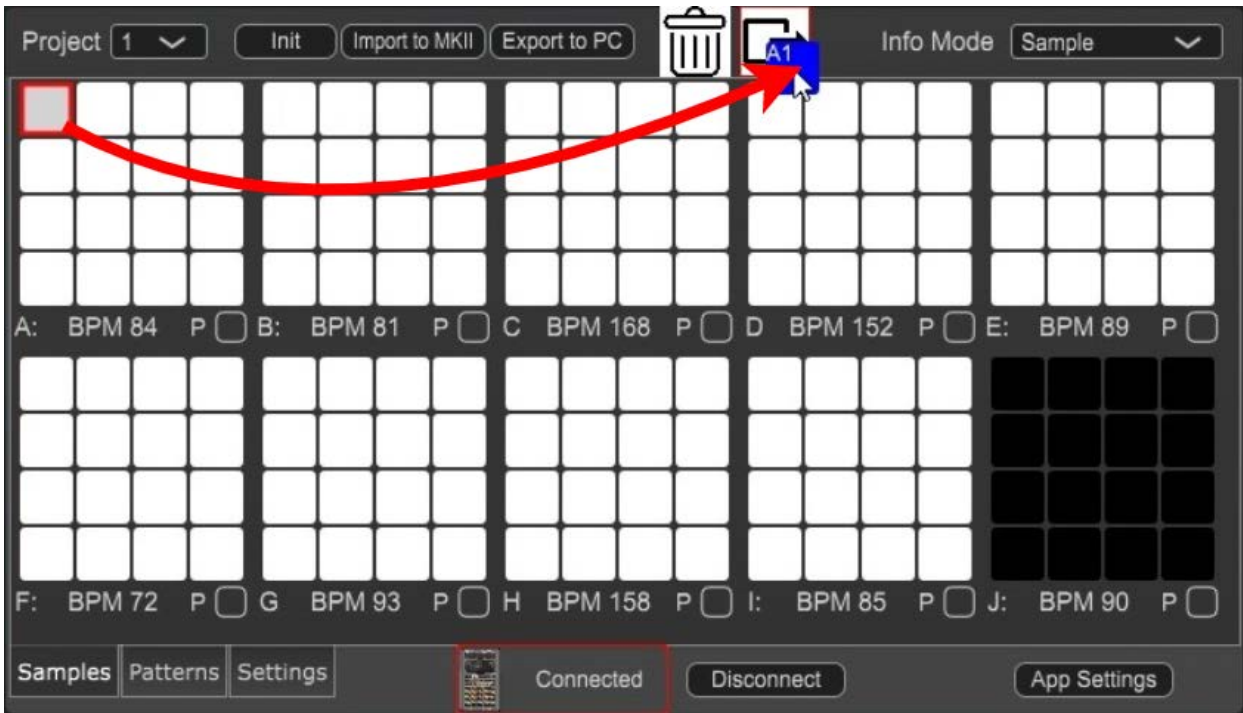
When the import is finished, the pad of the imported sample turns white.



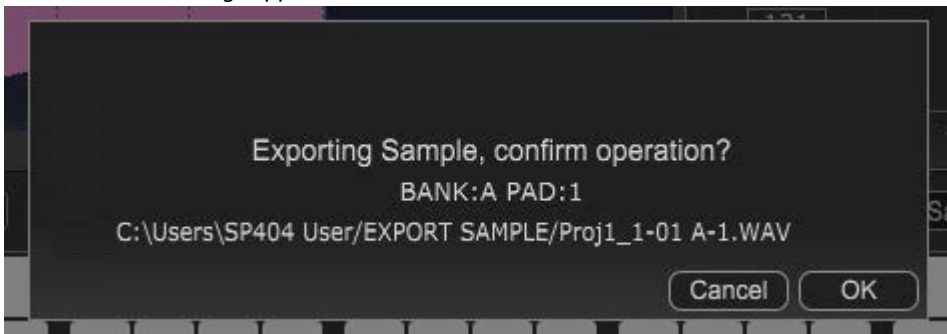
Exporting Samples

Here's how to export a sample that's assigned to a pad to your computer.

1. **Drag and drop the pad whose sample you want to export to the arrow icon.**



A confirmation message appears.



If you decide to cancel, click "Cancel."

2. **Click "OK."**

The selected sample is exported.

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

Organizing the Samples

Moving the Sample of a Pad(P.16)

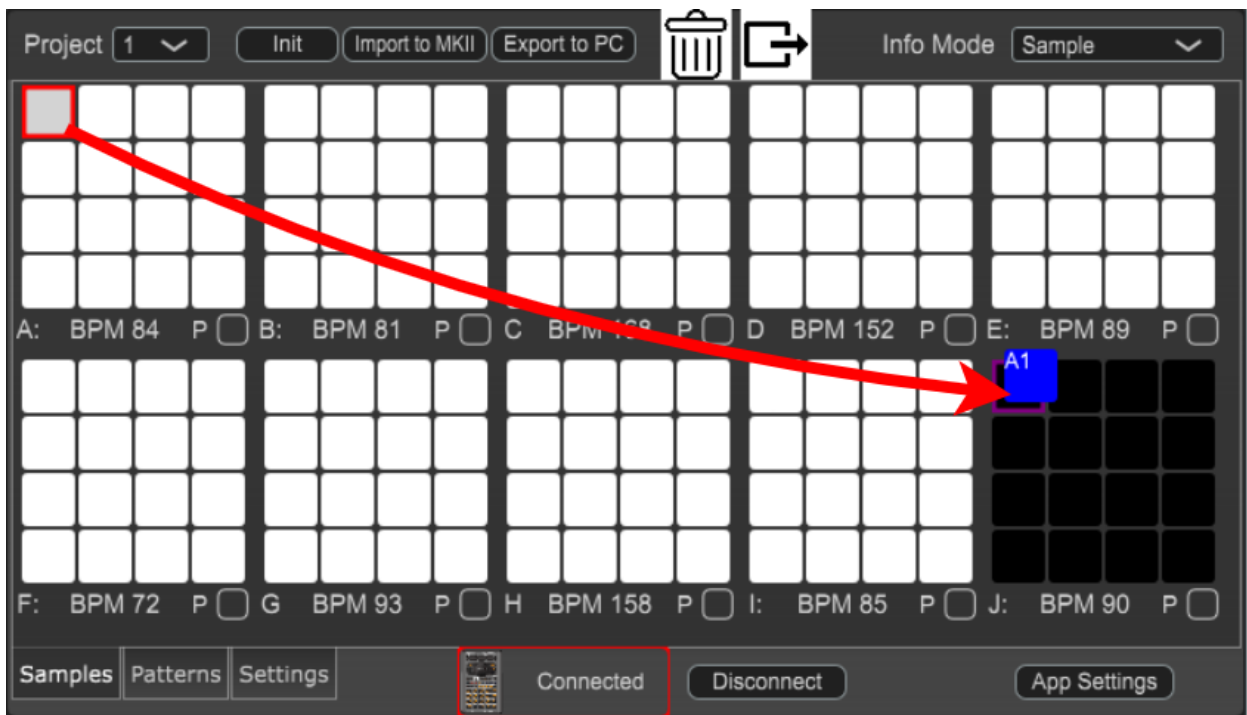
Copying/Exchanging Samples Between Pads(P.16)

Deleting a Sample from a Pad(P.17)

Moving the Sample of a Pad

Here's how to move the sample that's assigned to a pad to a different pad.

1. **Drag and drop the pad whose sample you want to move to the destination pad.**



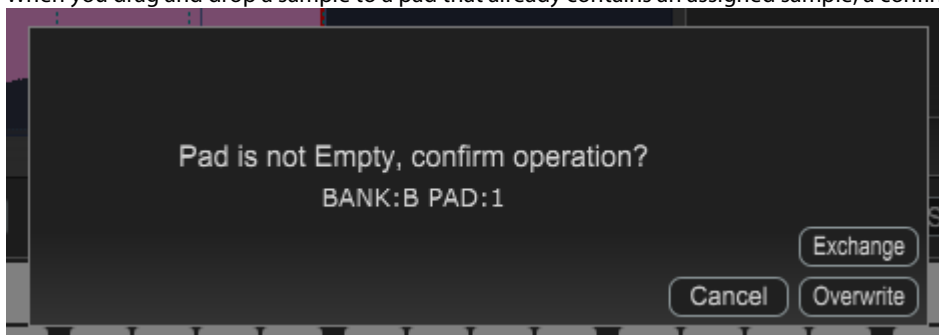
Once the sample is moved, the destination pad turns white, and the source pad turns black (indicating that the pad is empty).

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

MEMO

When you drag and drop a sample to a pad that already contains an assigned sample, a confirmation message appears.



When you click the [Exchange] button, the sample in the destination is exchanged with the sample in the source.

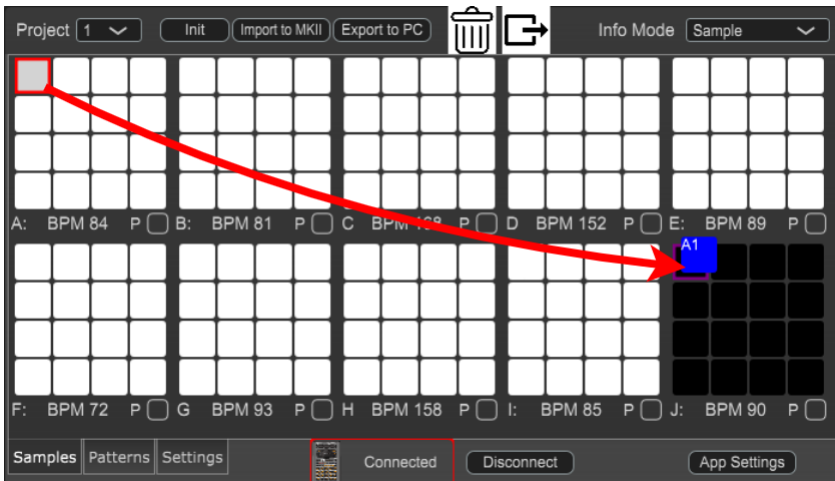
When you click the [Overwrite] button, the sample is overwritten and the previous sample is deleted.

If you decide to cancel, click "Cancel."

Copying/Exchanging Samples Between Pads

Here's how to copy the sample that's assigned to a pad to a different pad, or exchange samples between pads.

1. While holding down the [Ctrl] button (PC) or the [Command] button (Mac), drag and drop the pad whose sample you want to copy or exchange to the destination pad.



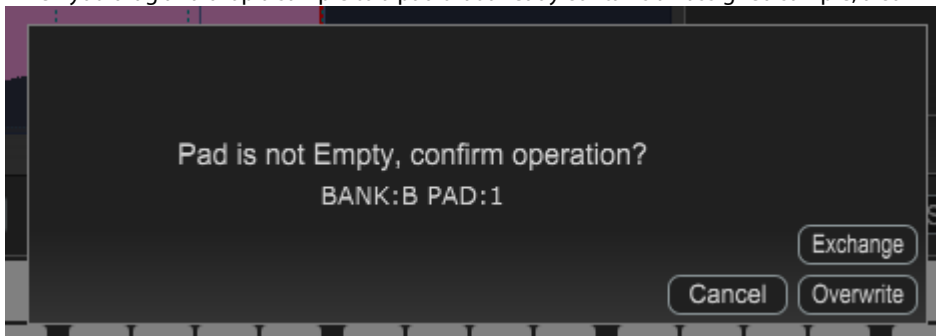
Once the data is copied, the copy destination pad lights up white.

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

MEMO

When you drag and drop a sample to a pad that already contains an assigned sample, a confirmation message appears.



When you click the [Exchange] button, the sample in the destination is exchanged with the sample in the source.

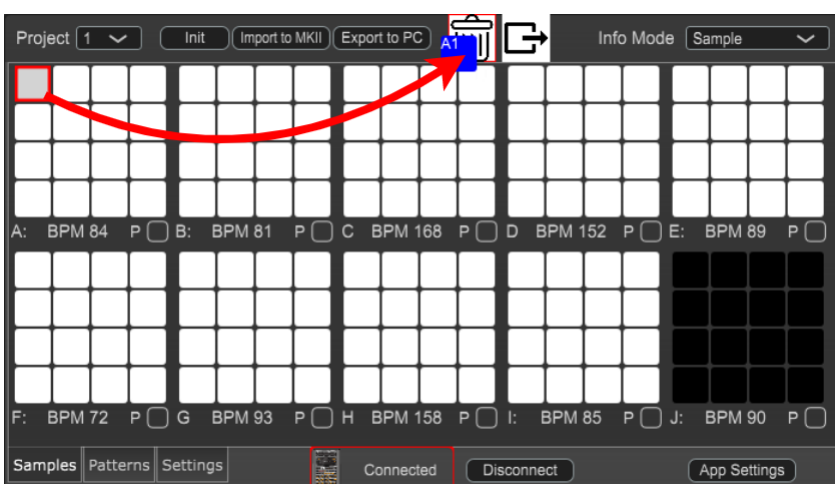
When you click the [Overwrite] button, the sample is overwritten and the previous sample is deleted.

If you decide to cancel, click "Cancel."

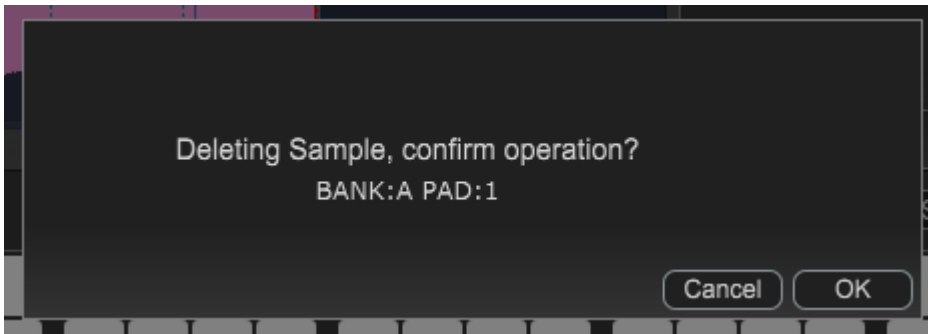
Deleting a Sample from a Pad

This is how to delete the sample assigned to a pad.

1. Drag and drop the pad whose sample you want to delete to the recycle bin (trash) icon.



A confirmation message appears.



If you decide to cancel, click "Cancel."

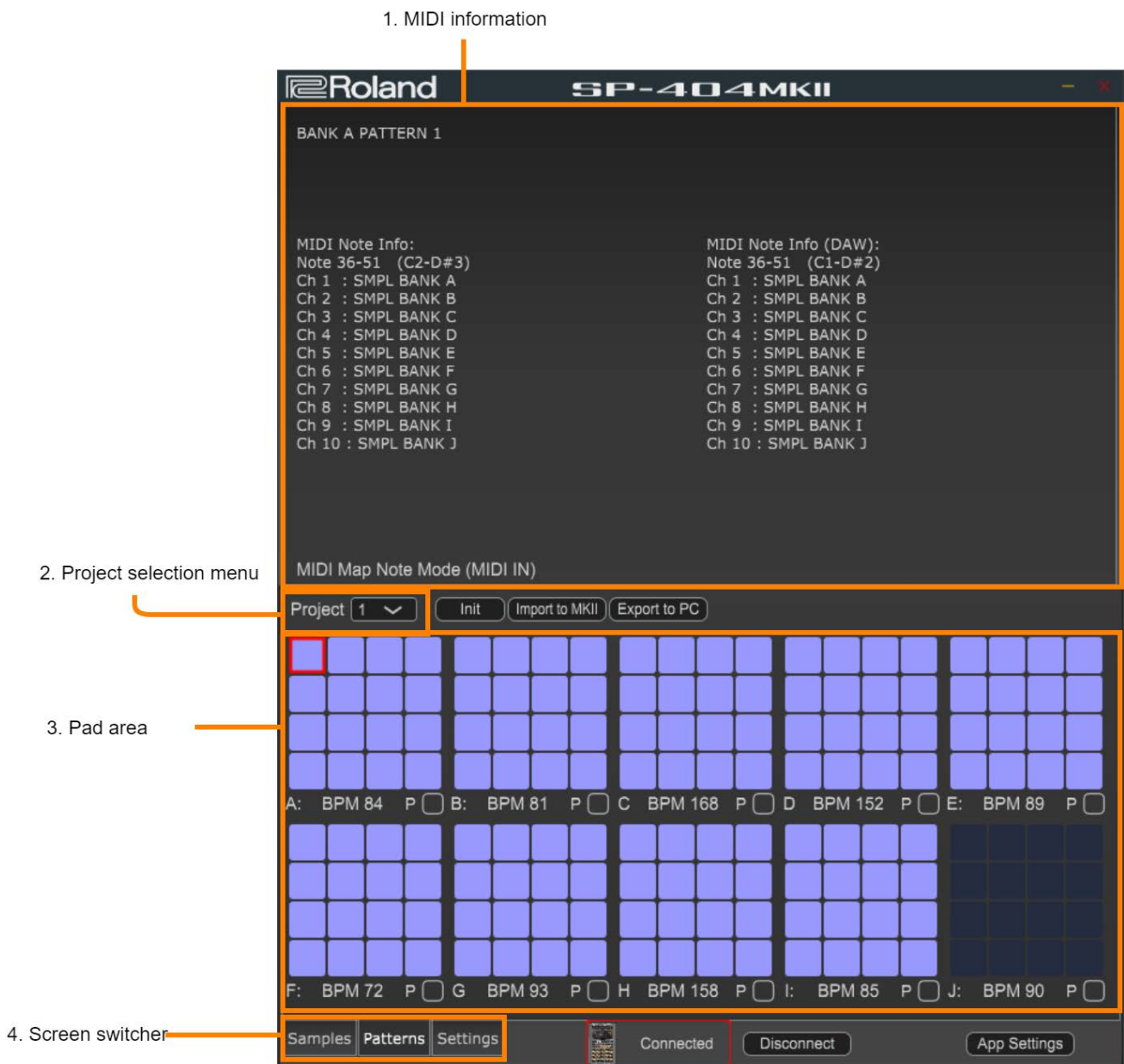
2. **Click "OK."**

When the deletion is finished, the original pad turns black (indicating that the pad is empty).

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

Editing a Pattern ("Patterns" Screen)





1. MIDI information

Shows MIDI-related information and data. Use this when you're operating the pads via MIDI.

2. Project selection menu

Switches between projects you wish to edit.

3. Pad area

This shows the pads for all banks. The blue pads () already contain an assigned pattern, and the indigo pads () are empty.

4. Screen switcher

Switches between screens to edit. → " [Basic Configuration of the SP-404MK2 App\(P.5\)](#)"

Importing Patterns

You can import pattern data from the SP-404SX/A or SMF data (.mid) from your computer into the SP-404MK2 as pattern data (import).

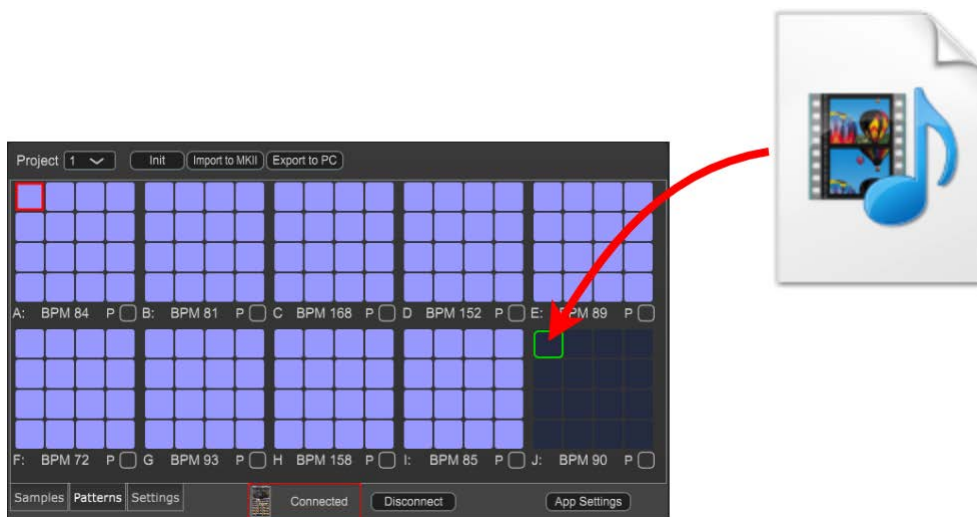
MEMO

The following file types are supported for import.

- SP-404MK2 pattern data (.bin)
- SP-404SX/A pattern data (.bin) that meets the following conditions
 - Length: 1, 2, 4, 8, 16, 32, 64
- SMF data created using a DAW or similar application/tool that meets the following conditions
 - Format: 0
 - TPQN: 480 or less
 - Length: 1, 2, 4, 8, 16, 32, 64
 - Max recordable note: 24,000

1. Drag and drop the pattern data from your computer to an empty pad on the SP-404MK2 App.

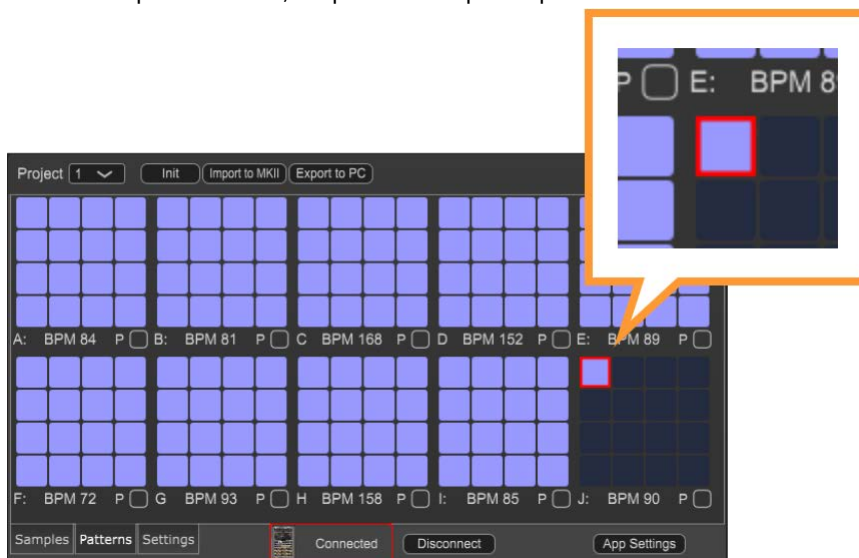
The popup message "Working..." is shown. If you decide to cancel the import, click "Cancel."



NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."
 When you drag and drop pattern data to a pad that already contains an assigned pattern, the data is overwritten. Use caution, as this deletes the previous pattern.

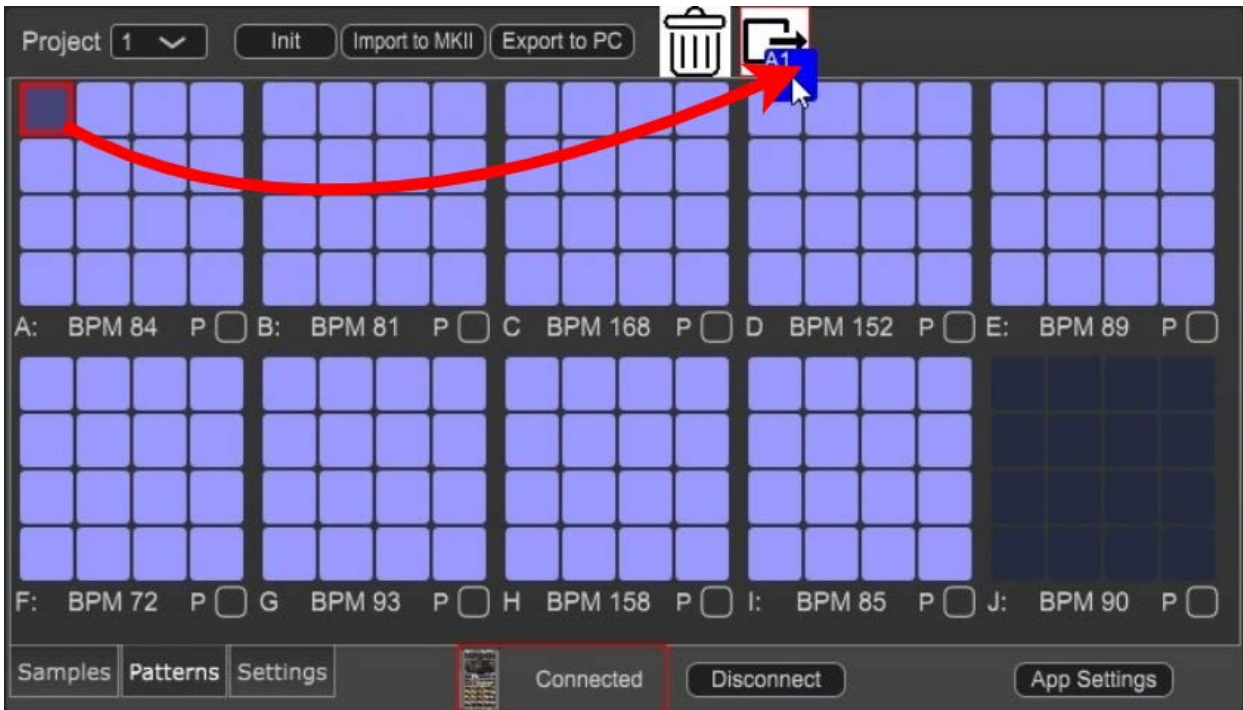
When the import is finished, the pad of the imported pattern turns blue.



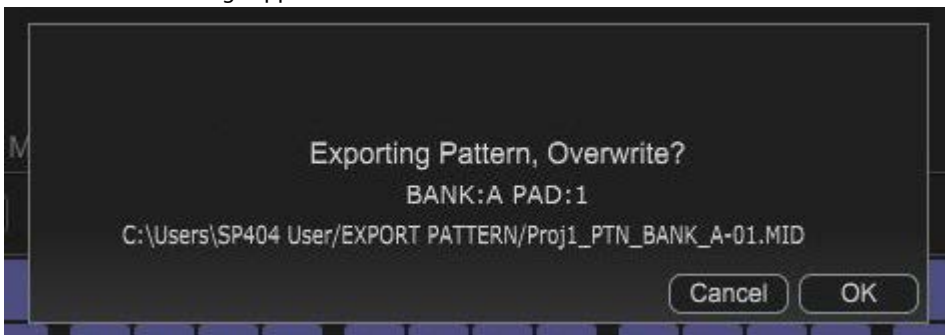
Exporting Patterns

This exports the pattern assigned to a pad to a computer as SMF data (.mid).

1. **Drag and drop the pad whose pattern you want to export to the arrow icon.**



A confirmation message appears.



If you decide to cancel, click "Cancel."

2. **Click "OK."**

The selected pattern is exported as SMF data (.mid).

NOTE

- The exported pattern data only includes the note messages from within the same bank. For instance, when you export the pattern data for bank A, only the note messages recorded with bank A (MIDI ch. 1) are exported. You can't export the note messages recorded with bank B (MIDI ch. 2) with the bank A pattern data.
- Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

Organizing the Patterns

[Moving the Pattern of a Pad\(P.22\)](#)

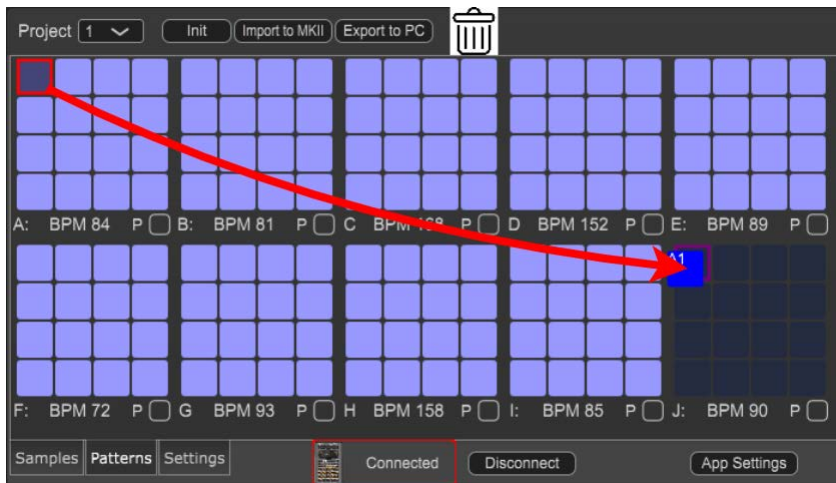
[Copying/Exchanging Patterns Between Pads\(P.22\)](#)

[Deleting the Pattern from a Pad\(P.23\)](#)

Moving the Pattern of a Pad

Here's how to move the pattern that's assigned to a pad to a different pad.

- 1. Drag and drop the pad whose pattern you want to move to the destination pad.**



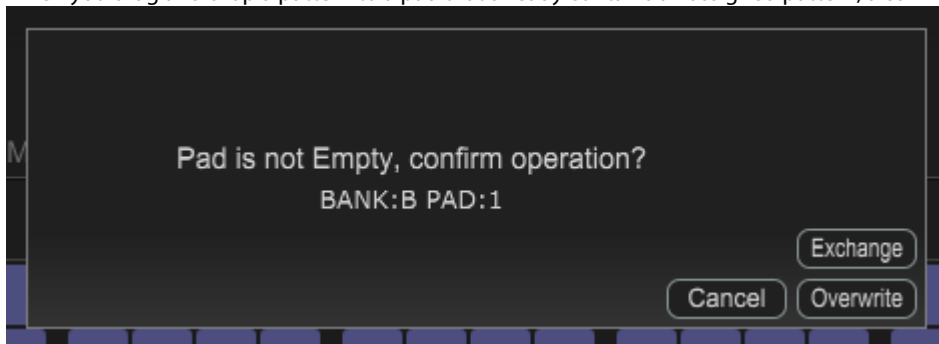
Once the pattern is moved, the destination pad turns blue, and the source pad turns indigo (indicating that the pad is empty).

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

MEMO

When you drag and drop a pattern to a pad that already contains an assigned pattern, a confirmation message appears.



When you click the [Exchange] button, the pattern in the destination is exchanged with the pattern in the source. When you click the [Overwrite] button, the pattern is overwritten and the previous pattern is deleted. If you decide to cancel, click "Cancel."

Copying/Exchanging Patterns Between Pads

Here's how to copy the pattern that's assigned to a pad to a different pad, or exchange patterns between pads.

- 1. While holding down the [Ctrl] button (PC) or the [Command] button (Mac), drag and drop the pad whose pattern you want to copy or exchange to the destination pad.**



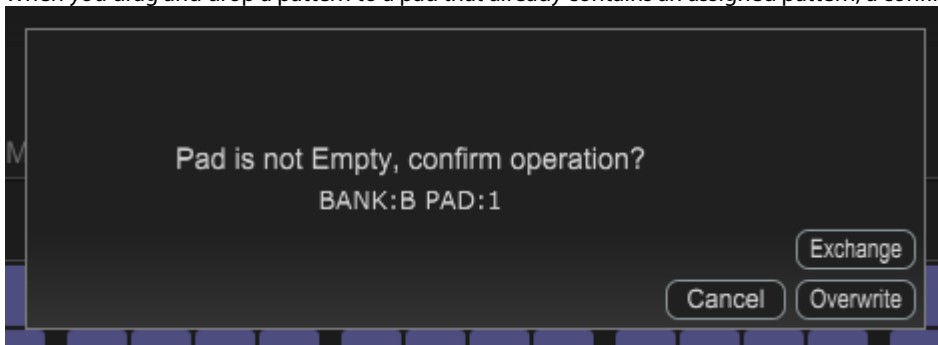
Once the data is copied, the copy destination pad lights up blue.

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

MEMO

When you drag and drop a pattern to a pad that already contains an assigned pattern, a confirmation message appears.

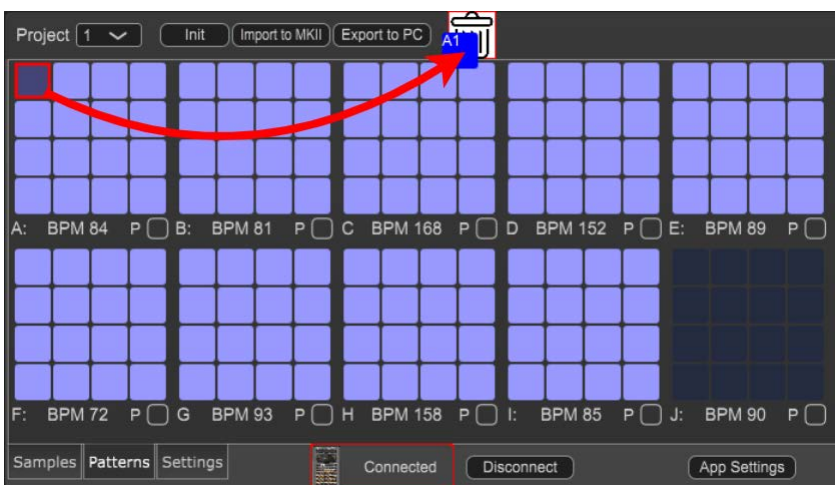


When you click the [Exchange] button, the pattern in the destination is exchanged with the pattern in the source. When you click the [Overwrite] button, the pattern is overwritten and the previous pattern is deleted. If you decide to cancel, click "Cancel."

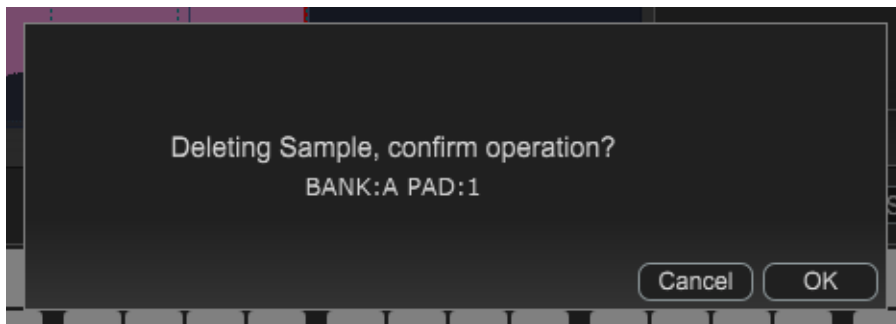
Deleting the Pattern from a Pad

Here's how to delete the pattern assigned to a pad.

1. Drag and drop the pad whose pattern you want to delete to the recycle bin (trash) icon.



A confirmation message appears.



If you decide to cancel, click "Cancel."

2. **Click "OK."**

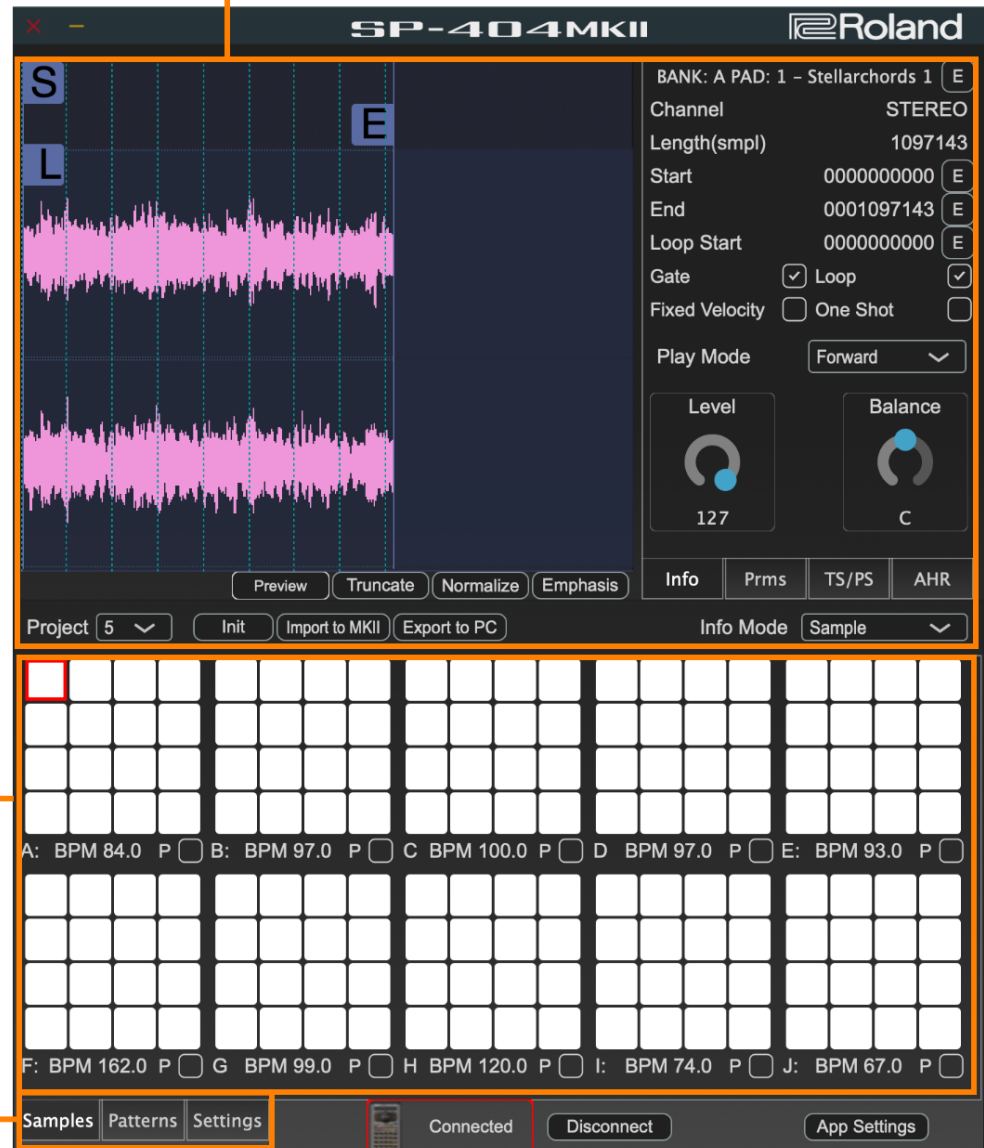
When the deletion is finished, the original pad turns indigo (indicating that the pad is empty).

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

Setting the Tempo and Volume (“Settings” Screen)

Samples screen



1. Tempo select
2. Project tempo
3. Bank tempo
4. Bank volume

5. Screen switcher

1. Tempo select

Selects whether to use the project tempo settings or the bank tempo settings.

2. Project tempo

Sets the project tempo.

3. Bank tempo

Sets the bank tempo.

4. Bank volume

Sets the bank volume.

5. Screen switcher

Switches between screens to edit. → “

[Basic Configuration of the SP-404MK2 App\(P.5\)”](#)

Importing/Exporting a Project

[Importing a project\(P.28\)](#)

[Exporting a project\(P.28\)](#)

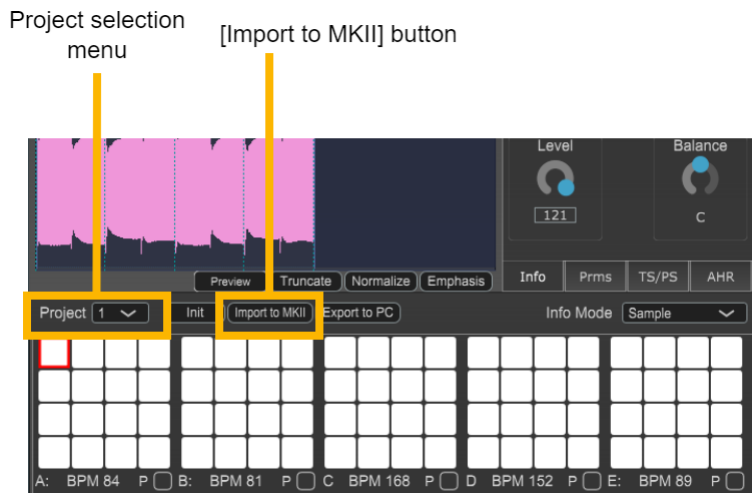
[Importing a Project from the SP-404SX/A\(P.30\)](#)

[Deleting a Project\(P.32\)](#)

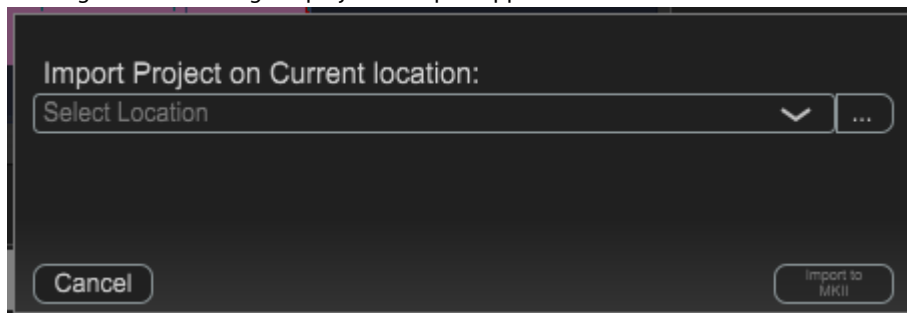
Importing a project

This shows how to import projects into the SP-404MK2 that are saved on your computer.

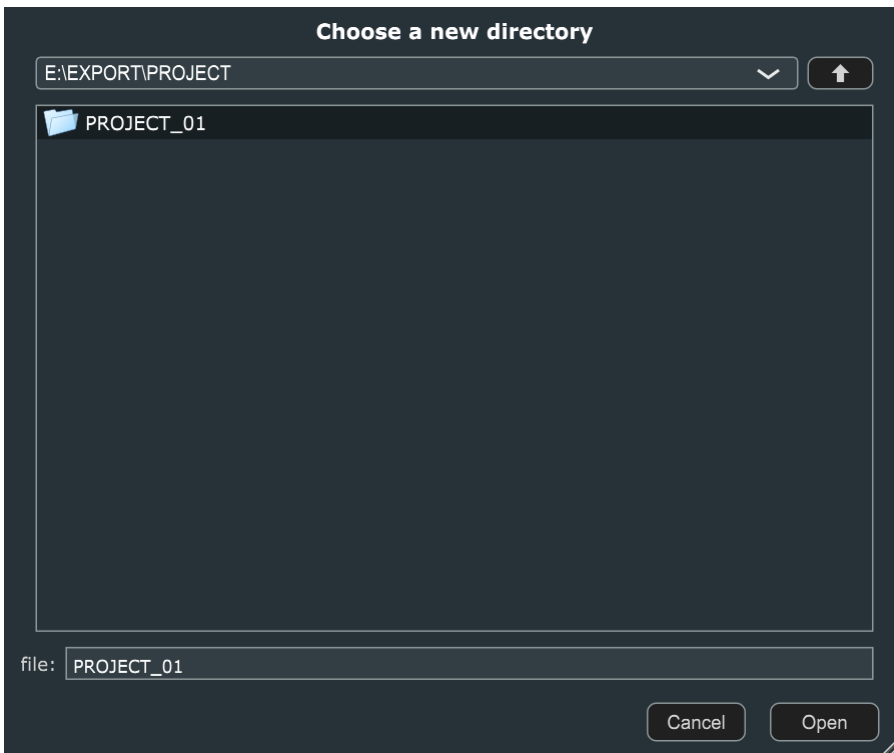
1. **Have the project data that's stored on your computer ready that you want to import.**
2. **Select the import destination (the project where you want to import the data) from the project selection menu, and click the [Import to MKII] button.**



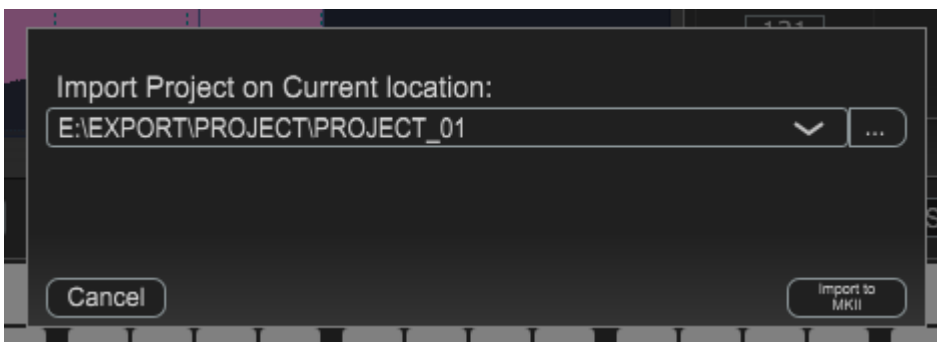
A dialog box for selecting the project to import appears.



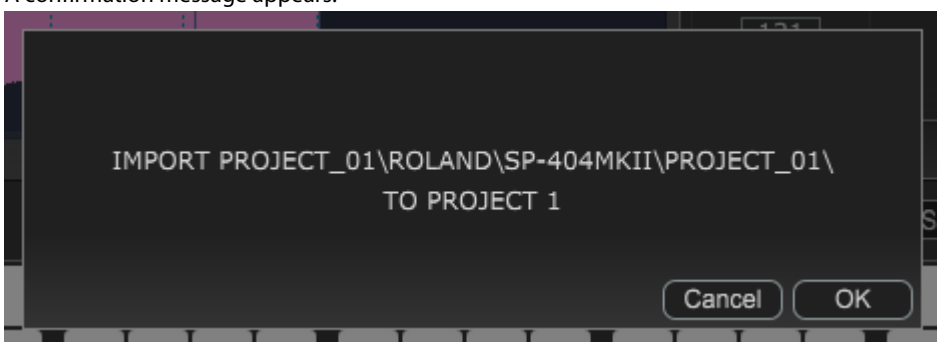
3. **Click the [...] button, select the project to import and click "Open."**



4. Click "Import to MKII."



If you decide to import a different project instead, click "Cancel."
A confirmation message appears.



If you decide to cancel, click "Cancel."

NOTE

This erases any data that's already in the import destination project. Use caution.

5. Click "OK."

The selected project is imported.

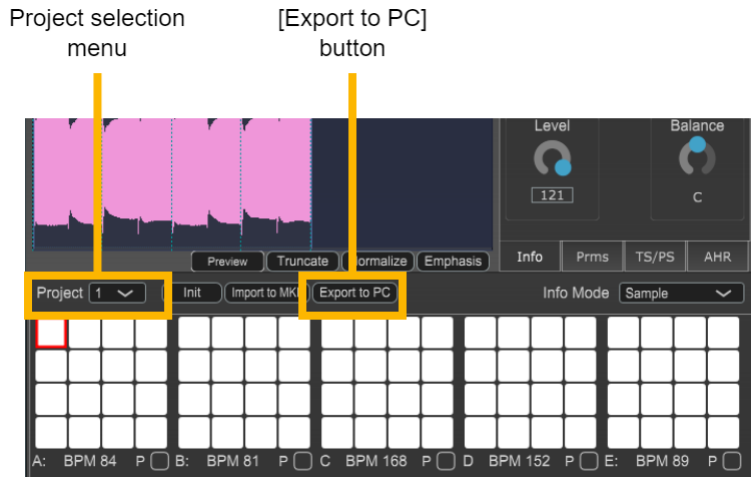
NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

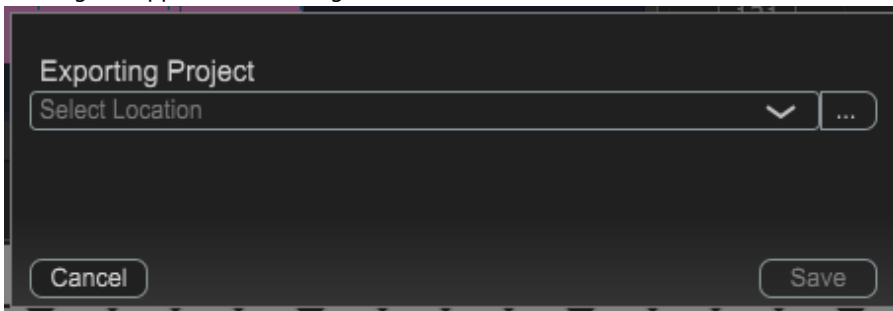
Exporting a Project

Here's how to save a project from the SP-404MK2 to your computer (export).

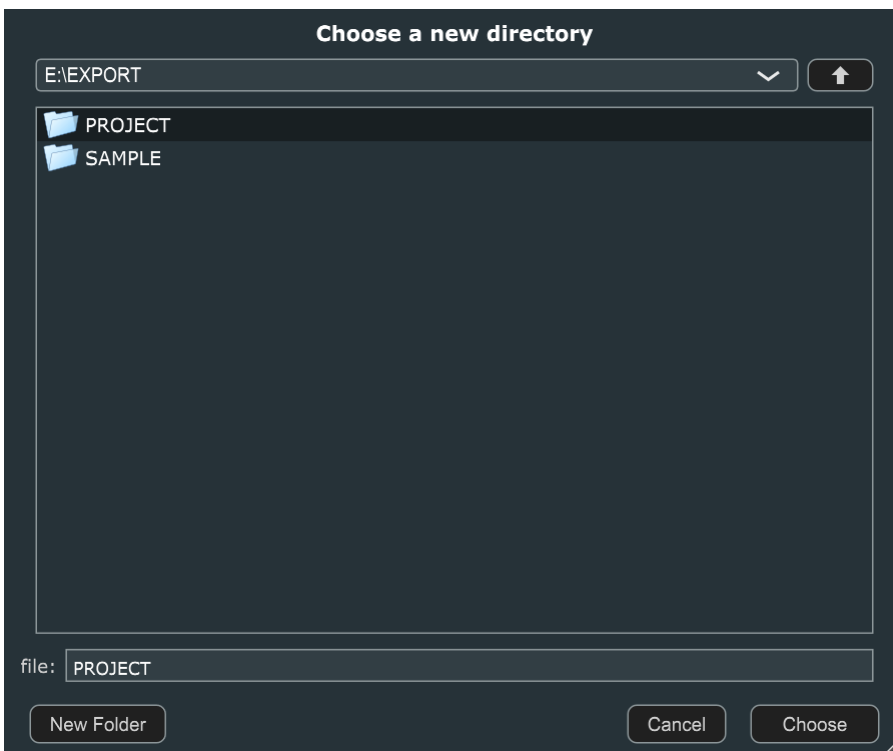
1. **Open the Samples screen or Patterns screen.**
2. **Select the project you wish to export from the project selection menu, and click the [Export to PC] button.**



A dialog box appears for selecting the save destination.

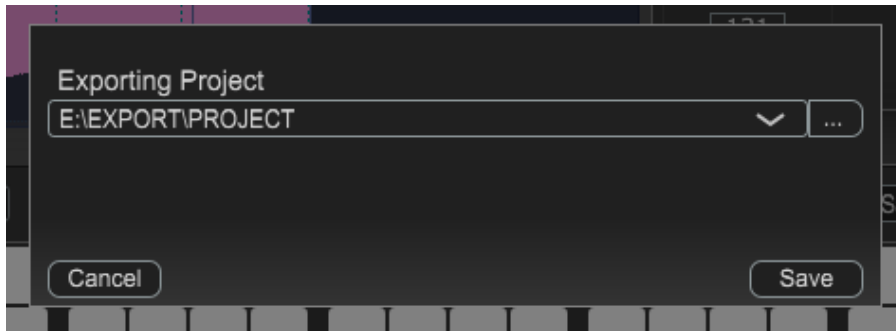


3. **Click the [...] button, select the location of the save destination and click "Choose."**

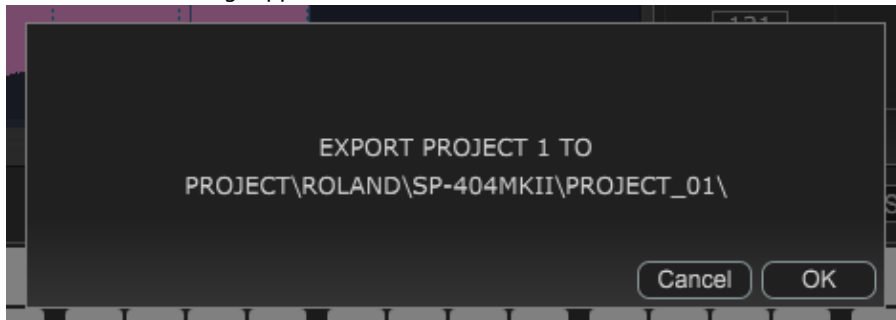


4. **Click "Save."**

To edit the save destination, click "Cancel."



A confirmation message appears.



If you decide to cancel, click "Cancel."

NOTE

If there is already data in the save destination, that data is overwritten. Use caution.

5. Click "OK."

The selected project is exported.

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

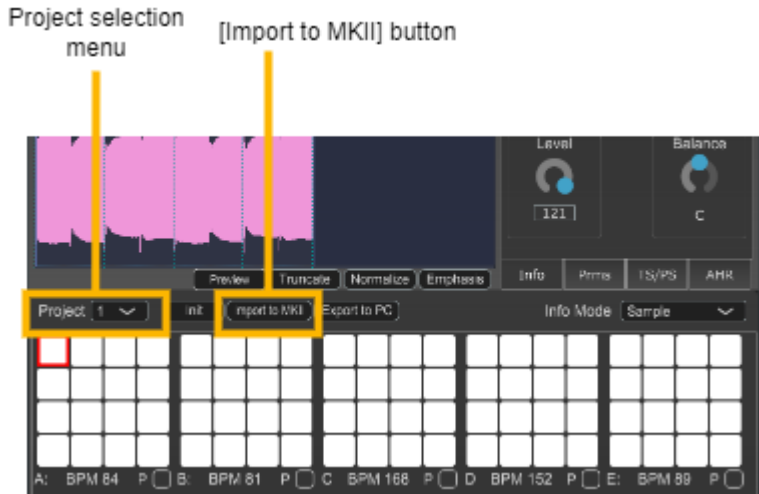
MEMO

A subfolder named "ROLAND" is created in the save destination folder you specified. Exported projects are saved with the filename "PROJECT_**" (the asterisks are replaced with the lowest unused number) in the "SP-404MKII" folder, located within the "ROLAND" folder.

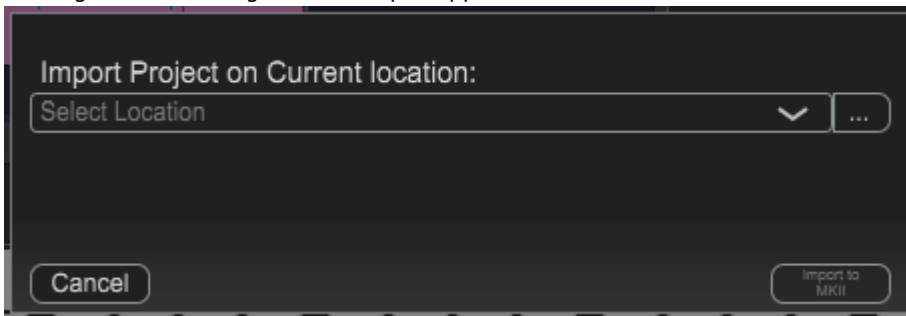
Importing a Project from the SP-404SX/A

You can import and use data from the SP-404SX/A with the SP-404MK2 App.

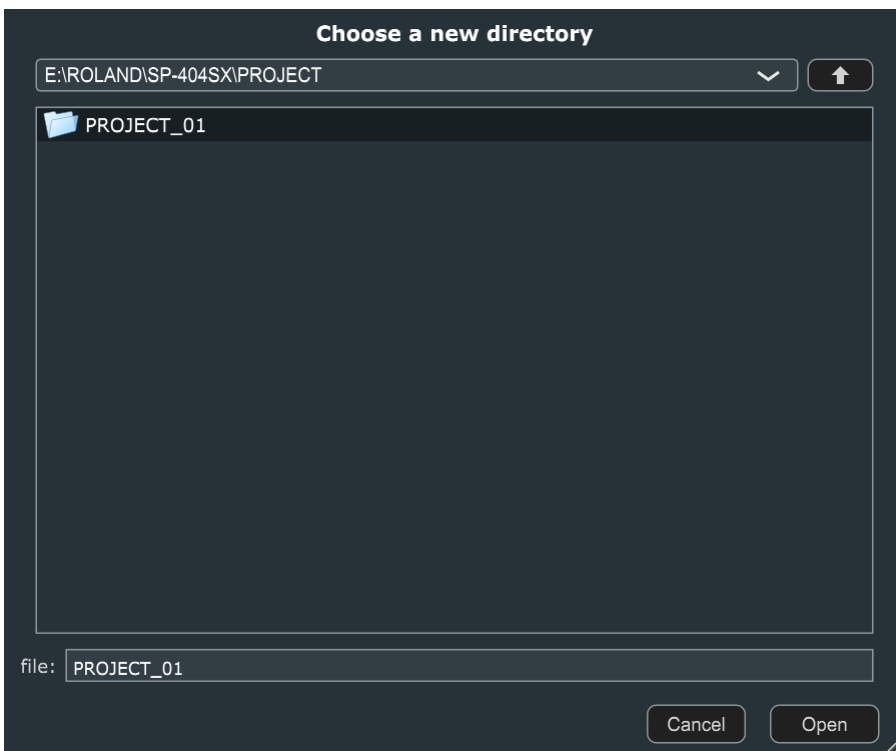
1. **Insert the SD card on which the data from the SP-404SX/A is stored into your computer's SD card slot.**
2. **Select the import destination project from the project selection menu, and click the [Import to MKII] button.**



A dialog box for selecting the file to import appears.

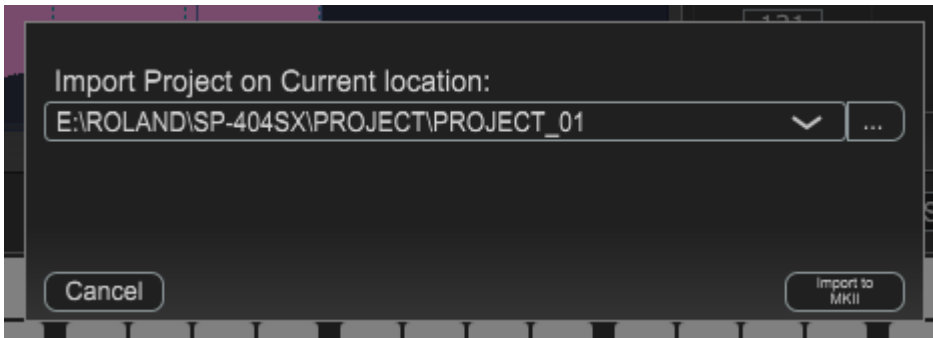


3. **Click the [...] button, select the SP-404SX/A file to import and click "Open."**



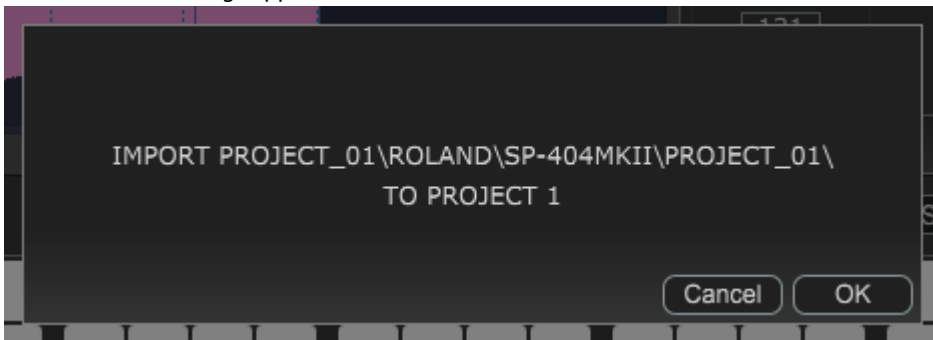
MEMO

The SP-404SX/A data is saved in the SP-404SX/ROLAND/SP-404SX subfolder on the SD card.

4. Click "Import to MKII."

If you decide to import a different project instead, click "Cancel."

A confirmation message appears.



If you decide to cancel, click "Cancel."

NOTE

This erases any data that's already in the import destination project. Use caution.

5. Click "OK."

The selected project is imported.

NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates "Working..."

Deleting a Project

Here’s how to delete the data from a selected project.

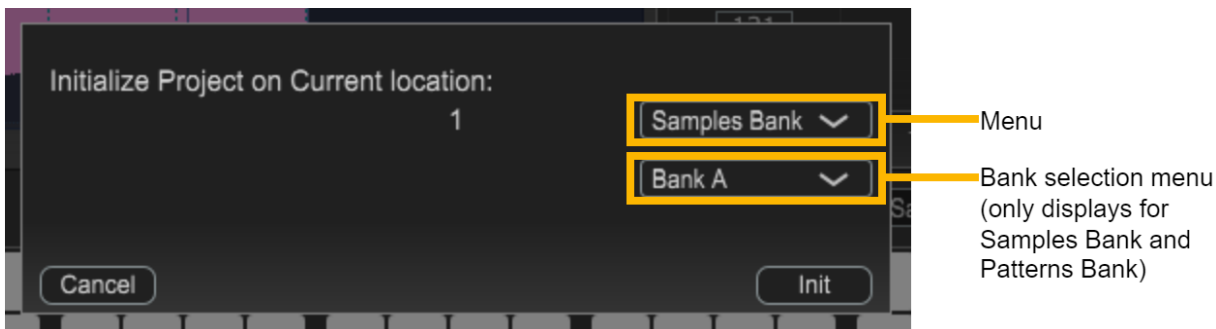
NOTE

Once a project is deleted, all the data in that project is lost and can’t be recovered. If you want to save the project before deleting it, be sure to follow the steps in “Exporting a Project(P.28).”

1. **Click the [Init] button.**

A dialog box appears, which confirms the deletion.

2. **Select the menu and click the [Init] button.**



Item	Explanation
All	All project data is deleted.
All Samples	All samples in the project are deleted.
Samples Bank	All samples in the bank are deleted. The bank selection menu appears when this is selected.
All Patterns	Deletes all patterns in the project.
Patterns Bank	Deletes all patterns in the bank. The bank selection menu appears when this is selected.

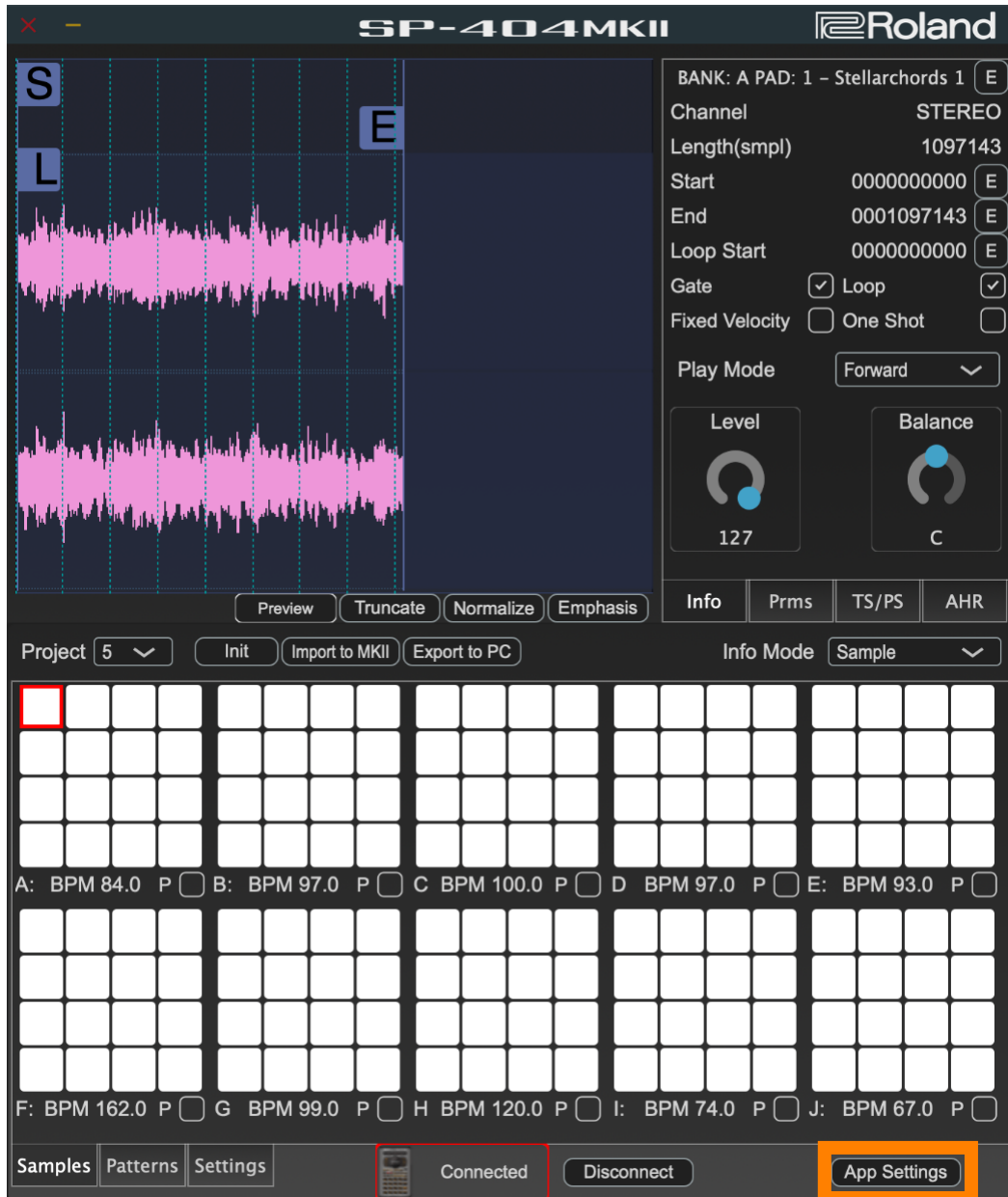
NOTE

Never turn off the power or disconnect the SP-404MK2 while the screen indicates “Working...”

Editing the App Settings

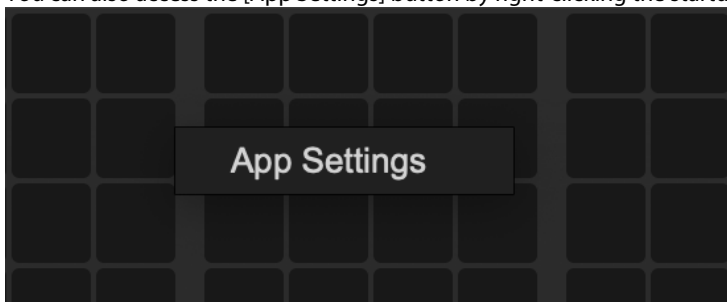
You can change the background color of the app, or use the image data file you like as the background image.

1. Click the [App Settings] button at the lower right of the screen.



MEMO

You can also access the [App Settings] button by right-clicking the startup screen.



A popup screen appears.



2. Configure the background settings.

Parameter	Value	Explanation
Color mode	Dark (Default), Light, Redzone, Fuji-san, Orange	Sets the background color.
Use Custom	On/off	Switches the custom settings on/off. To turn this on, click to select the checkbox.
	Use the [...] button to select the image from the imported images that you want to use as the background.	
	"..."	Imports the image you want to use for the background into the app. The standard size for image files you can use is 700 × 800 px. Images that exceed this size are cropped to fit without being compressed.
	"-"	Deletes the image file you imported.
	Top, Mid, Bottom, Stretch	Sets the position of the image file when used as the background. When set to "Stretch," small images are stretched to standard size when used.
SlideShow	OFF, 5 sec, 10 sec, 30 sec, 60 sec	Displays the images you imported as a slide show. Set this to "OFF" if you wish to disable the feature.
Gradient Top	-	Sets the gradation in the top part of the background. Settings further to the right make the gradation darker, with less variation between light and dark color.
Gradient Bottom	-	Sets the gradation in the bottom part of the background. Settings further to the right make the gradation darker, with less variation between light and dark color.
Mask Opacity	-	Sets the transparency of the background image you set in "Use Custom." Settings further to the right make the color darker with less transparency.
Scale Factor	0.5, 0.75, 1.0, 1.5, 2.0	Changes the display size of the app.

3. To save the settings, click the [OK] button.

Error messages

Error messages	Explanation	Action
Connection is Lost, please Disconnect!	The computer is no longer connected to the SP-404MK2.	<ol style="list-style-type: none"> 1. Check whether the SP-404MK2 and your computer are properly connected with a USB cable, and try connecting again. 2. If this does not resolve the issue, restart both the SP-404MK2 App and the SP-404MK2.
Media Error.	The sample data could not be loaded.	<ul style="list-style-type: none"> ● Only single-byte alphanumeric characters can be used for the file and folder names of the sample data. Check whether any characters that are not single-byte letters or numbers are being used. ● You cannot use sample data that's longer than 16 minutes. Check whether the sample data you are trying to load is too long or too short.
Error. Not Found. Open Error.	An error occurred when trying to open the file or folder.	Do not unplug or plug in a USB cable connecting the SP-404MK2 to your computer while you're using the app.
Read Error.	An error occurred when reading the file.	<ol style="list-style-type: none"> 1. Check whether the SP-404MK2 and your computer are properly connected with a USB cable, and try connecting again. 2. If this does not resolve the issue, restart both the SP-404MK2 App and the SP-404MK2.
Write Error.	An error occurred when writing the file.	If the above methods do not resolve the issue, the file or folder you're trying to load or save might be corrupted, or the file or folder name might contain characters other than single-byte letters or numbers. Check whether the data has been correctly saved.
Media Full Error.	The SP-404MK2 has run out of free space.	Delete any data you don't need on the SP-404MK2 to increase the amount of free storage capacity.
BPM Detect Error.	The BPM could not be analyzed.	Try inputting the BPM manually.
Protected!	The function can't be executed because bank protect is enabled.	Use a bank for which bank protect is disabled, or disable bank protect on the currently selected bank. →"SP-404MKII Reference Manual" (Web)