



Vboard 49

USER 'S MANUAL

MIDIPLUS

Contents

INTRODUCTION.....	2
IMPORTANT NOTES:	2
1. OVERVIEW.....	3
1.1 THE TOP PANEL.....	3
1.2 THE REAR PANEL.....	3
2. GUIDE.....	4
2.1 READY TO USE.....	4
2.2 SCREEN.....	5
2.3 TRANSPOSE AND OCTAVE.....	6
2.4 KNOBS.....	6
2.5 SHIFT BUTTON.....	6
2.6 TOUCH PAD.....	7
2.7 TRANSPORT BUTTONS.....	7
2.8 KEYBOARD.....	7
2.8 OPERATION EXAMPLES.....	8
2.9.1 Change The transport Buttons mode.....	8
2.9.2 Change The transport Buttons CC Number.....	8
2.9.3 Change The knob's CC Number.....	9
2.9.4 Changing The Controller Channel.....	9
2.9.5 Send The Program message.....	9
3. FACTORY RESET.....	9
4. DAW SETTINGS.....	10
4.1 Steinberg Cubase/Nuendo Pro (MMC☒).....	10
4.2 FL Studio (MMC).....	11
4.3 Studio One (MMC).....	11
4.4 Pro Tools (MMC).....	14
4.5 Logic Pro X (MMC).....	15
4.6 Reaper (MMC).....	16
5. BLUETOOTH MIDI CONNECT (IOS).....	17
6. APPENDIX.....	19
6.1 Appendix.....	19
6.2 Scales.....	19
6.3 MIDI CC List.....	20

Introduction

Thank you for purchasing the **MIDIPLUS** Vboard 49, This is a folding MIDI Keyboard. They all features full size keyboard with velocity sensitive, 2 knobs, 3 buttons, Pitch and Modulation touch pad. built- in rechargeable battery and bluetooth midi function. Please read this manual for quickly understand the functions of this product.

Product inculd:

- Vboard 49
- USB cable
- User's manual
- Cubase le Registration paper
- MIDIPLUS paster

Important Notes:

Charging note:

1. Vboard 49 built-in rechargeable battery for bluetooth midi connection.
2. The screen display will blink half a second and the vboard 49 will turn off after 3 minutes when the battery low power
3. Continual use of the Vboard 49 while the battery power low may impair its performance and can decrease the life-span of the battery. Please connect and charge the Vboard 49 with a suitable power supply immediately.
4. While the Vboard 49 charging, three flashing indicators will appear at the bottom of the screen. The three indicators will stop flashing once the Vboard 49 is fully charged.
5. To save power, the Vboard 49 will automatically turn off after 30 minutes of no operation.

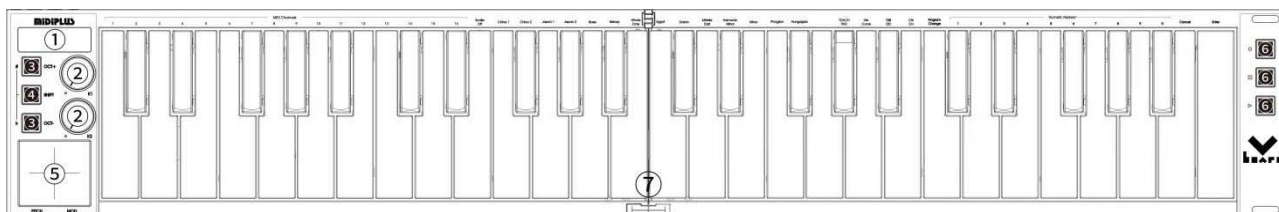
maintenance note:

1. Please use dry and soft rag to wipe the Vboard 49 when cleaning. Do not use paint thinners,organic solvents,detergents or other wipes soaked in aggressive chemicals so as not to discolor the panel or keyboard.
2. Please unplug the usb cable and turn off the Vboard 49 when the keyboard will not be used for long period of time or during a thunderstorm.
3. Avoid using Vboard 49 near water or wet places, such as bathtub, pool, or similar places.
4. Please do not place the Vboard 49 in an unstable place to avoid acciedental falling.
5. Please do not place heavy objects on the Vboard 49.
6. Please avoid placing Vboard 49 with poor air circulation.
7. Please do not open inside of Vboard 49, avoid any metal falling may causing fire or electric shock
8. Avoid spilling any liquid on the Vboard 49.
9. Avoid using Vboard 49 in case of thunder or lightning

10. Please do not expose Vboard 49 to scorchingsun
11. Please do not use Vboard 49 when there is gas leakage nearby

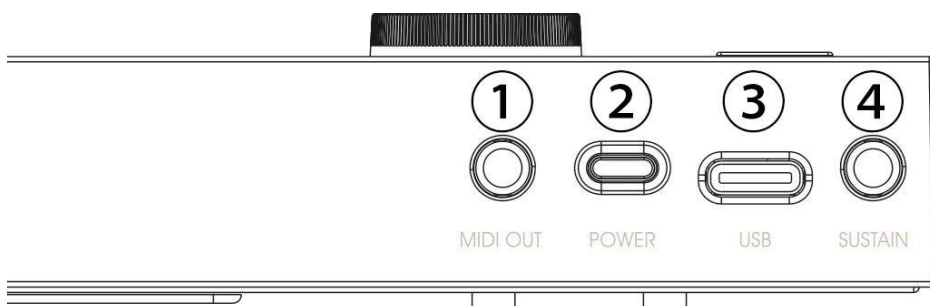
1. Overview

1.1 The Top Panel



- É **Screen:** Provides real time feedback of control information.
- ě **Knobs:** Control DAW or software instrument parameters.
- É **Transpose/Octave buttons:** Activate keyboard's octave control.
- ě **SHIFT buttons:** Switch the second function of the keyboard or controller.
- É **Touch Pad:** Control the pitch bend /modulation or XY PAD parameters of your sound.
- ě **Transport buttons:** Control the transport of DAW on MMC mode and control the CC of DAW on CC mode.
- É **Keyboard:** Trigger notes on/off, also can be used as shortcuts to access edit more parameters.

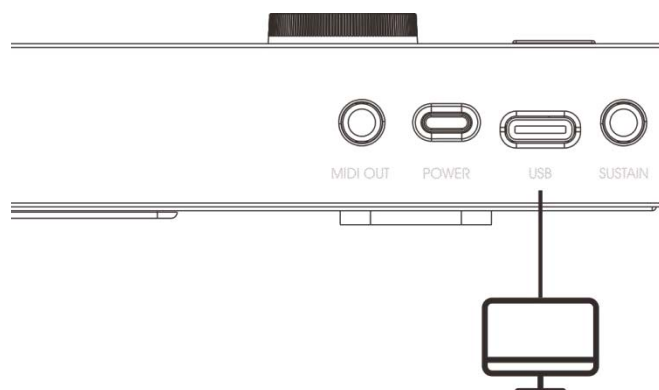
1.2 The Rear Panel



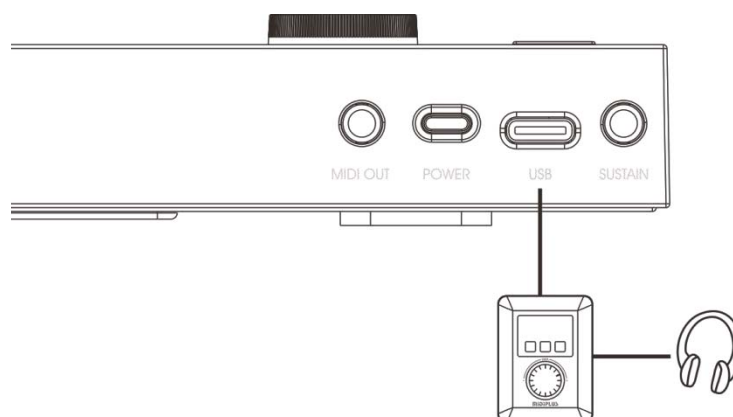
- É **MIDI OUT:** Connect to MIDI device or modular
- ě **POWER:** turn on the Vboard 49
- É **USB:** Connect to your computer, this port provides both power and MIDI data
- ě **SUSTAIN:** Connect to a sustain pedal

2. Guide

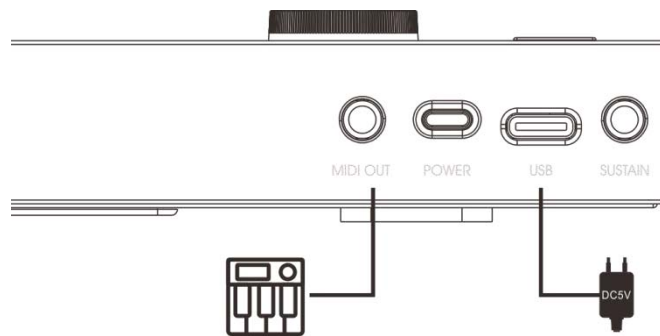
2.1 Ready to use



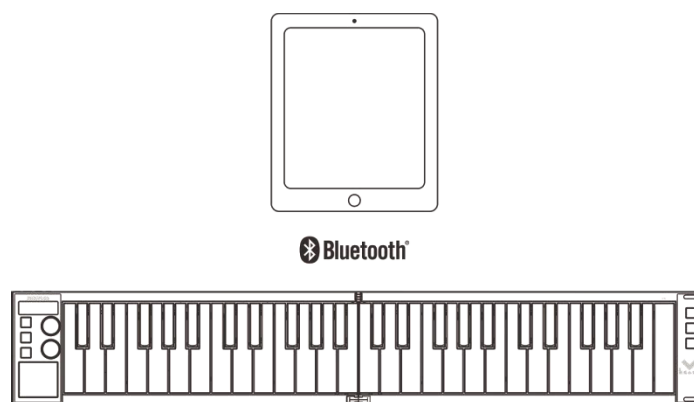
Use with computer: Connect X III to your PC or Mac using the included USB cable and turn on the power button. Vboard 49 is a class-compliant USB device, so its drivers are automatically installed when connecting to a computer.



Use with **MIDIPLUS** miniEngine series sound engine: Connect Vboard49 to the USB Host of miniEngine using the included USB cable and turn on the Vboard 49, connect your speaker or headphone to miniEngine and turn on the miniEngine.



Use with external MIDI device: turn on the vboard 49 power button , connect the MIDI OUT of Vboard 49 with 3. 5mm TRS to MIDI IN of external MIDI device with a 5 pin MIDI cable.



Connect the iOS device: turn on the vboard 49 power button and switch on bluetooth on the iOS device, then open the app which support bluetooth midi and connect Vboard 49 in setup menu. Please refer to [5. Bluetooth MIDI Connect \(iOS\)](#) for detailed operation steps.

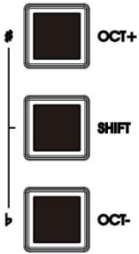
2.2 Screen



The Vboard 49 screen display can know the current control status of the keyboard at any time (about more screen Please refer to [6.2 Screen](#))

Display	Description
	MIDI Channel 1
	In the Setting Mode
	MMC mode
	CC mode
	Pitch/Modulation mode
	XY Pad mode
	Factory resetting

2.3 Transpose and Octave



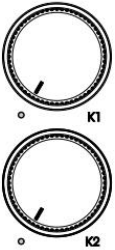
Pressing the OCT+ or OCT- button to shift the octave range of keyboard, Pressing the OCT+ and OCT- buttons simultaneously will quickly reset the octave shift.

Pressing and hold the SHIFT button then pressing the OCT+ or OCT- button to transpose, Pressing the OCT+ and OCT- buttons simultaneously will quickly reset the octave shift.

2.4 Knobs

Vboard 49 has 2 assignable knobs with backlit, the default control functions of each knob are as follows:

Knob	Function	MIDI CC Number
K1	Undefined	CC12
K2	Undefined	CC13

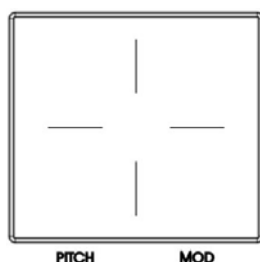


2.5 SHIFT button



Pressing and hold the SHIFT button can switch the second function of the keyboard or controller.

2.6 Touch Pad



The touch pad allow for real-time pitch bend and modulation control. The left side is pitch bend and the right side is modulation. The Touch Pad can switch to XY PAD mode for pressing "TouchPAD" key and the Axis X is CC71 ;Axis Y is CC74.

Please refer to [2.8 keyboard](#) for detailed operation steps.

2.7 Transport Buttons

Vboard 49 has 3 transport buttons with two mode: MMC(default) and CC mode, you can change this in Setting Mode. Please refer to [2.9.1 Change The transport Buttons mode](#) for detailed operation steps.

Button	MMCmode	MIDI CC mode
●	record	CC14
■	stop	CC15
▶	play	CC16



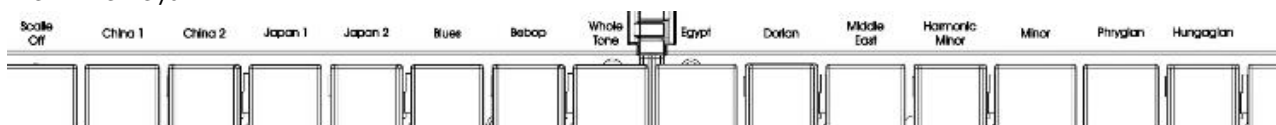
2.8 Keyboard

Vboard 49 has 49 velocity sensitive keys for playing and sending note on/off messages. These keys also can be used as shortcuts to access edit more parameters with pressing and hold the SHIFT button.

MIDI CHANNELS: Setting the MIDI Channel of keyboard, the range between 1 and 16, the default is 1.



SCALE: Selecting the build in Smart Scale, when a scale is selected, the scale notes will be mapped on the white keys.



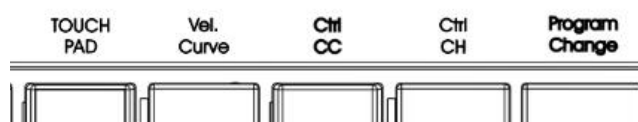
TouchPAD: Selecting the Pitch/Modulation mode or XY PAD mode.

Vel. Curve: Turn on or turn off the keyboard velocity sensitive curve, the default is on. when turn off the velocity curve, the fixed velocity is 100.

Ctrl CC: Setting the CC Number of each controller, including K1/k2 knobs and 3 transport buttons(CC mode), the range between 0 and 127.

Ctrl CH: Setting the MIDI Channel of each controller, including K1/k2 knobs and 3 transport buttons(CC mode), the range between 0 and 16, the default is 0.

Program change: Send out the Program change message, the range between 0 and 127.



Numeric Keybed: Select with the numeric keypad, press **Enter** to confirm, and press **Cancel** to clear.



2.8 Operation examples

2.9.1 Change The transport Buttons mode

1. Press and hold the **SHIFT** button, the screen display "5hF"
2. Press the transport button you want to assign, ► for instance, the second time screen displays "cc"
3. Release the **SHIFT** button for complete change the transport buttons mode, the same step to change other transport buttons mode

2.9.2 Change The transport Buttons CC Number

1. Press and hold the **SHIFT** button, the screen display "5hF"
2. Press the **Ctrl CC** key, the screen display "cc"
3. Press the transport button you want to assign, ● for instance, the screen displays "14"
4. Press the 5, 3 **Numeric keybed** keys in proper sequence for instance, the screen displays "053"
5. Press the **Enter** key
6. Release the **SHIFT** button for complete change the transport buttons CC Number, the same step to change other transport buttons CC Number

2.9.3 Change The knob's CC Number

1. Press and hold the **SHIFT** button, the screen display "ShF"
2. Press the "**Ctrl CC**" key, the screen display "c c"
3. Turn the knob you want to assign, K1 for instance, the screen displays "0 i2"
4. Press the 5, 2 "**Numeric keybed**" keys in proper sequence for instance, the screen displays "052"
5. Press the "**Enter**" key
6. Release the **SHIFT** button for complete change the K1 knob CC Number , the same step to change K2 knob's CC Number

2.9.4 Changing The Controller Channel

1. Press and hold the **SHIFT** button, the screen display "ShF"
2. Press the "**Ctrl CH**" key, the screen display "c h"
3. Press or turn the controller you want to assign(knob or transport button), K2 for instance, the screen displays "0 i3"
4. Press the 1, 0 "**Numeric keybed**" keys in proper sequence for instance, the screen displays "0 i0"
5. Press the "**Enter**" key
6. Release the **SHIFT** button for complete change the controller CC Number , the same step to change other controller Channel

2.9.5 Send The Program message

1. Press and hold the **SHIFT** button, the screen display "ShF"
2. Press the "**Program Change**" key, the screen display a number, the default is "000"
3. Press the 8 "**Numeric keybed**" key for instance, the screen displays "008"
5. Press the "**Enter**" key
6. Release the **SHIFT** button for complete send the Program message

3. Factory Reset

At some point you may wish to reset your device back to factory settings. To perform a factory reset on your Vboard 49, please follow these steps:

1. Turn off the Vboard 49' power,
2. Press and hold the "OCT+" and "OCT-" buttons,
3. Release the "OCT+" and "OCT-" buttons when the screen displays "rE5".

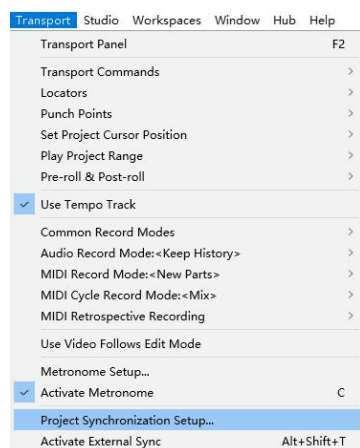
Note: Performing a factory reset will clear all your changes to the keyboard. Please operates carefully.

4. Daw settings

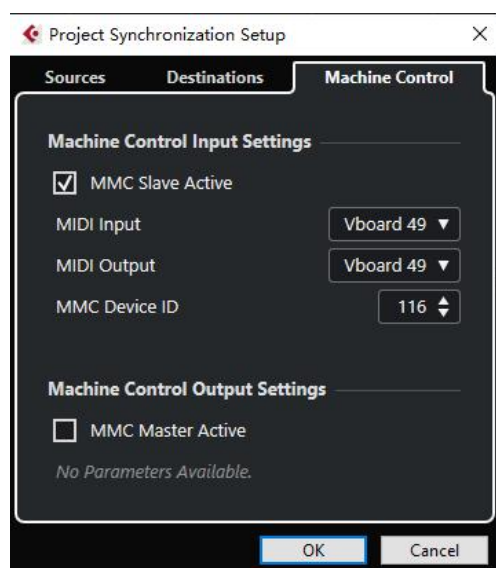
Vboard 49 has 3 transport buttons with two mode: MMC(default) and CC mode, they can be controls the transport of most popular DAWs.

4.1 Steinberg Cubase/Nuendo Pro (MMC)

1. Go to menu: **Transport** > **Project Synchronization Setup...**



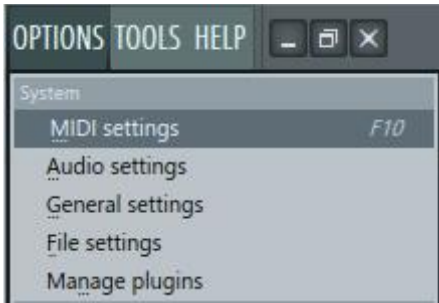
2. Select the **Machine Control** and enable MMC Slave Active, set the **MIDI Input** as **Vboard 49** and the **MIDI Output** as **Vboard 49**, the set the **MMC Device ID** as 116



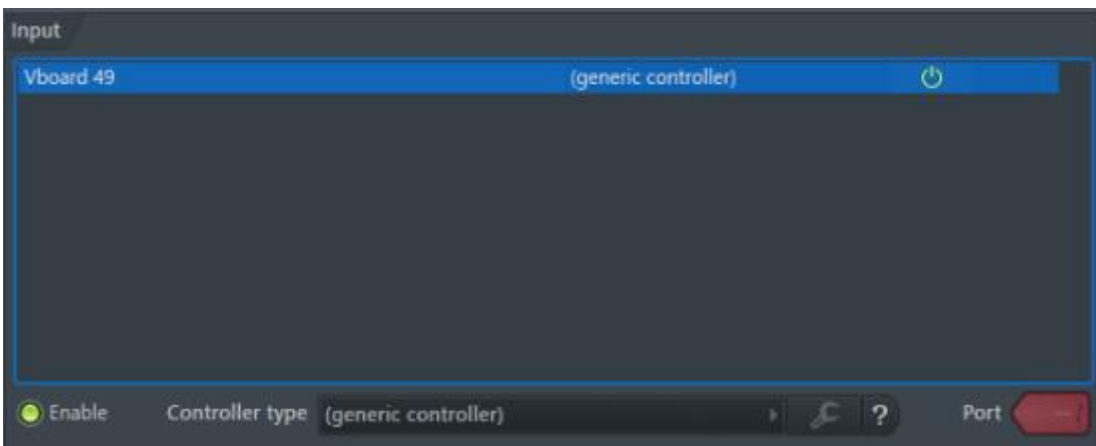
3. Click on **OK** to finish setup

4.2 FL Studio (MMC)

1. Go to menu: **Options** > **MIDI settings** (keyboard shortcut F10)

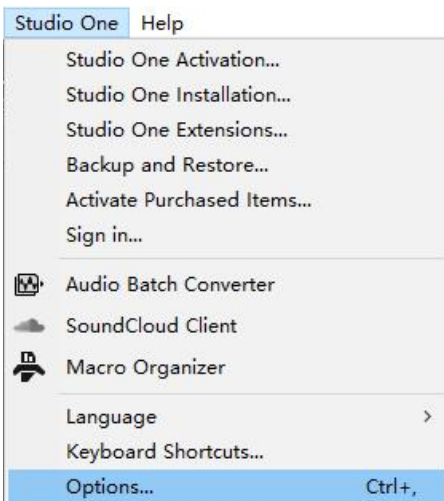


2. In the Input tab, find and **Enable** Vboard 49 and close the window to finish setup

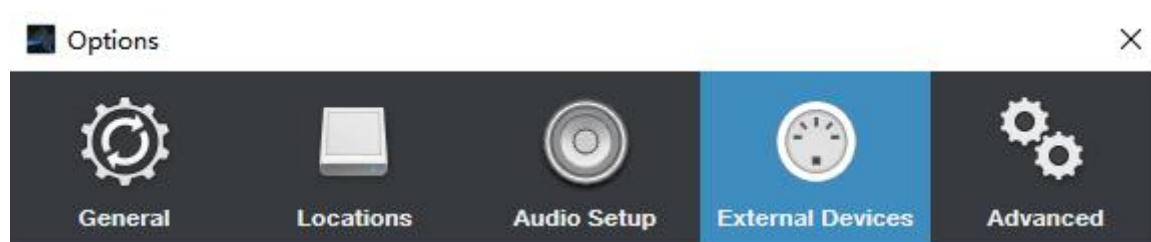


4.3 Studio One (MMC)

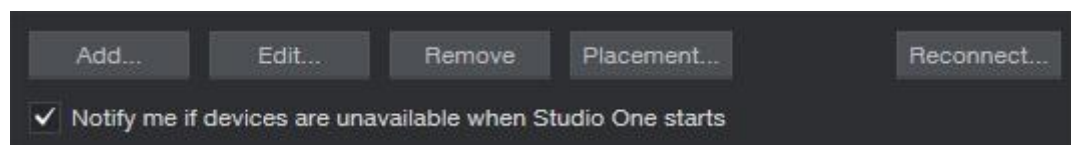
1. Go to menu: **Studio One** > **Options...** (keyboard shortcut: Ctrl+,)



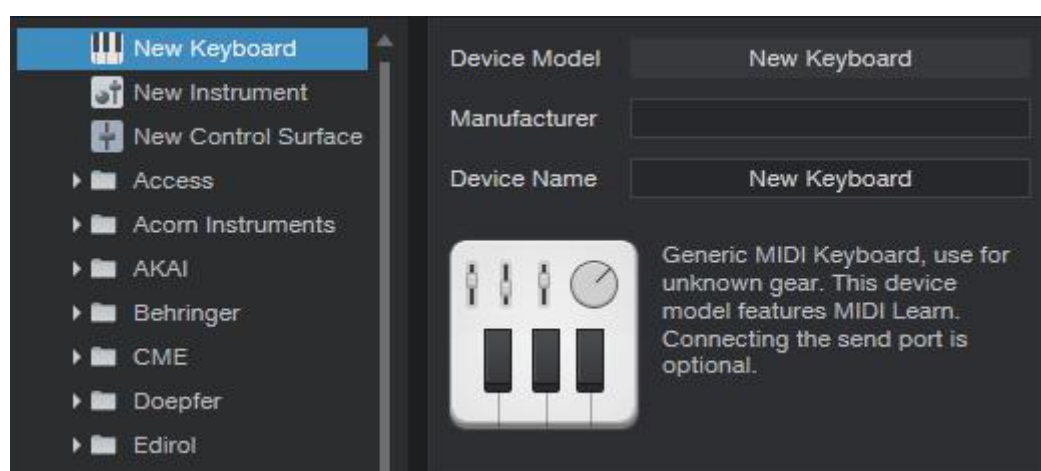
2. Select the **External Devices**



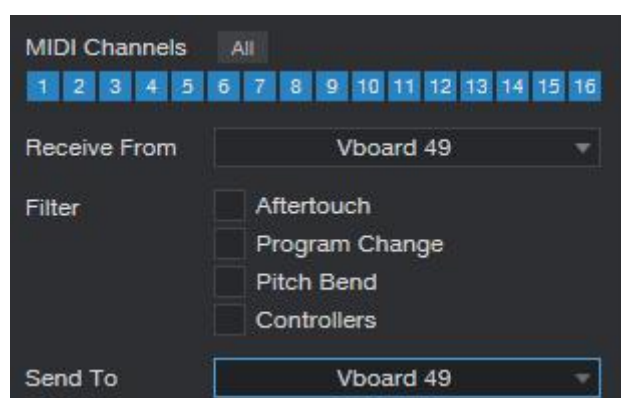
3. Then click on **Add...**



4. Select **New Keyboard**



5. Set both **Receive From** and **Send To** as **Vboard 49**

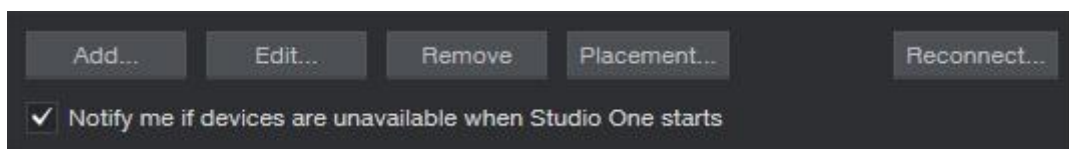


6. Click on OK to finish this part

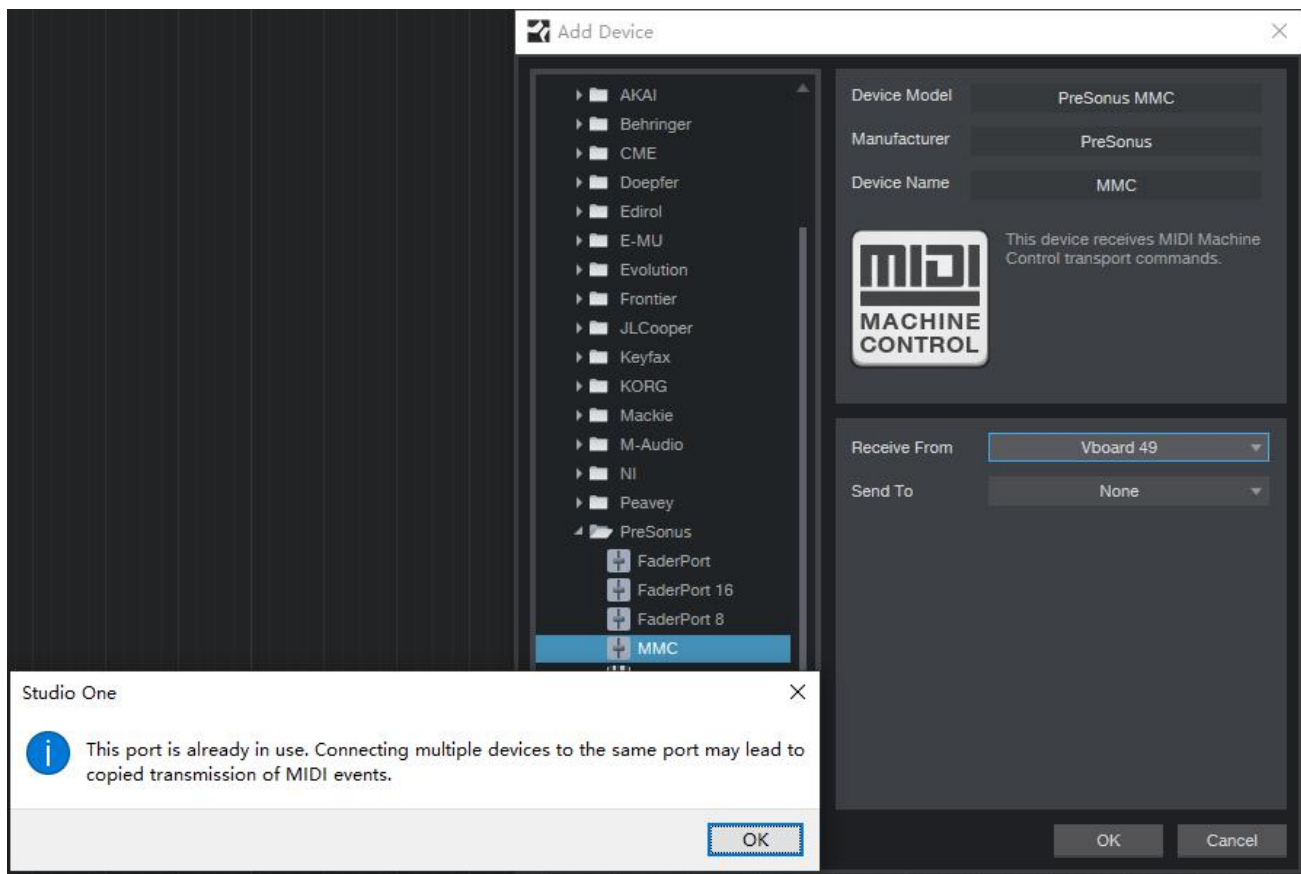


*Step7, 8 is the setting of below Studio one 3

7. Click on **Add...**

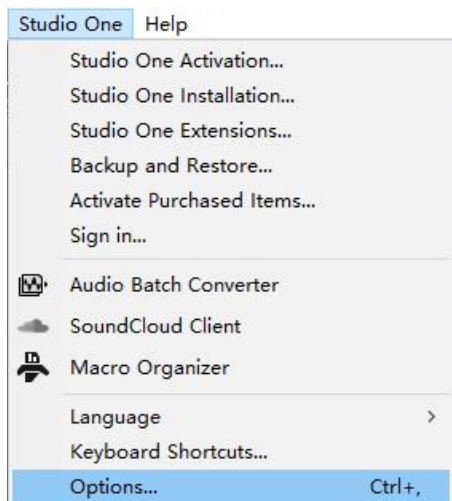


8. Find the **PreSonus** folder in the list and select **MMC**, set both **Receive From** and **Send To Vboard 49**, then click on **OK** to finish setup.

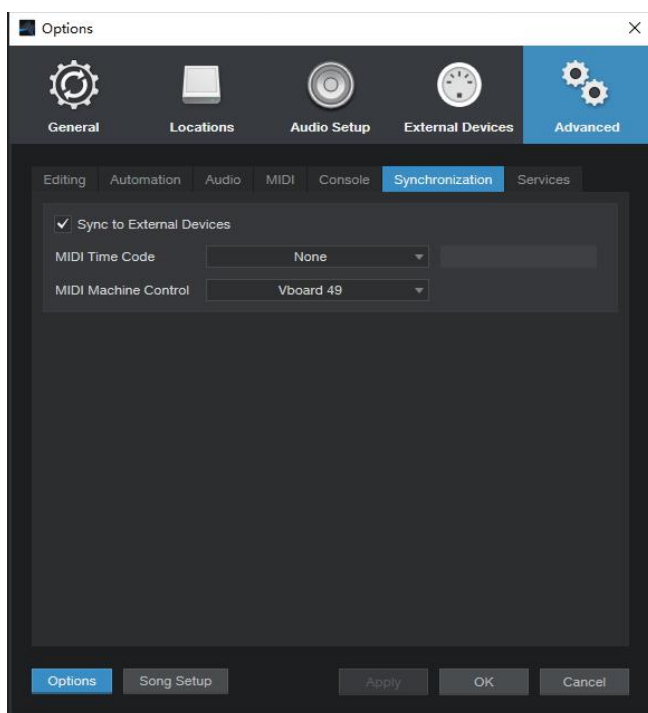


*Step9, 10 is the setting of above Studio one 3

9. Go to menu: **Studio One > Options...**(keyboard shortcut: Ctrl+,)

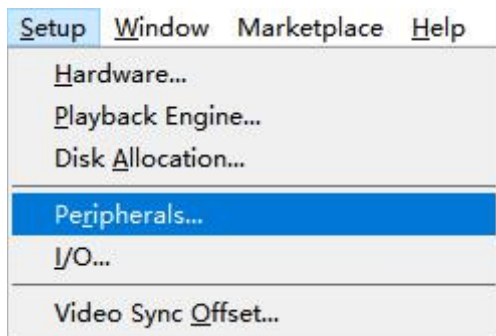


10. Select the **Advanced** and select the **Synchronization**, enable the **Sync to External Devices**, set **MIDI Machine Control** is **Vboard 49**, then click on **OK** to finish setup.

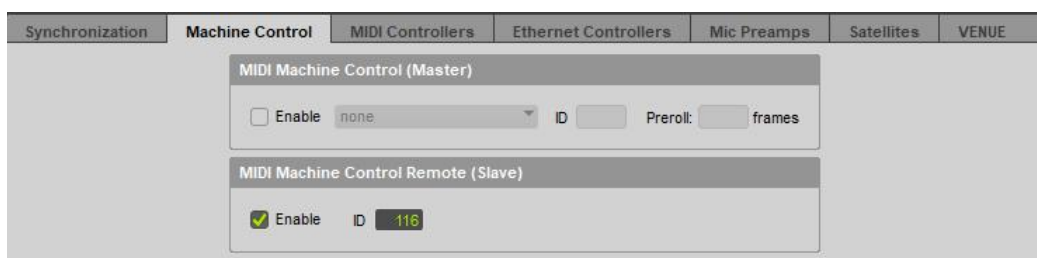


4.4 Pro Tools (MMC)

1. Go to menu: **Setup > Peripherals...**



2. In the pop-up window, click on the **Machine Controllers** tab, find the **MIDI Machine Control Remote (Slave)** and click it, set the ID as 116, then close the window to finish setup.

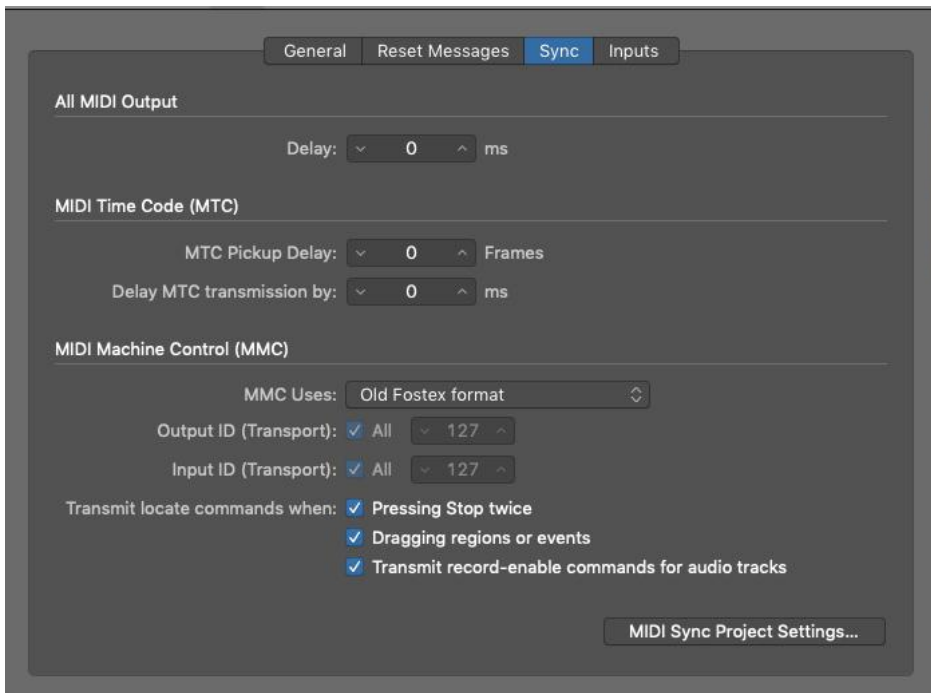


4.5 Logic Pro X (MMC)

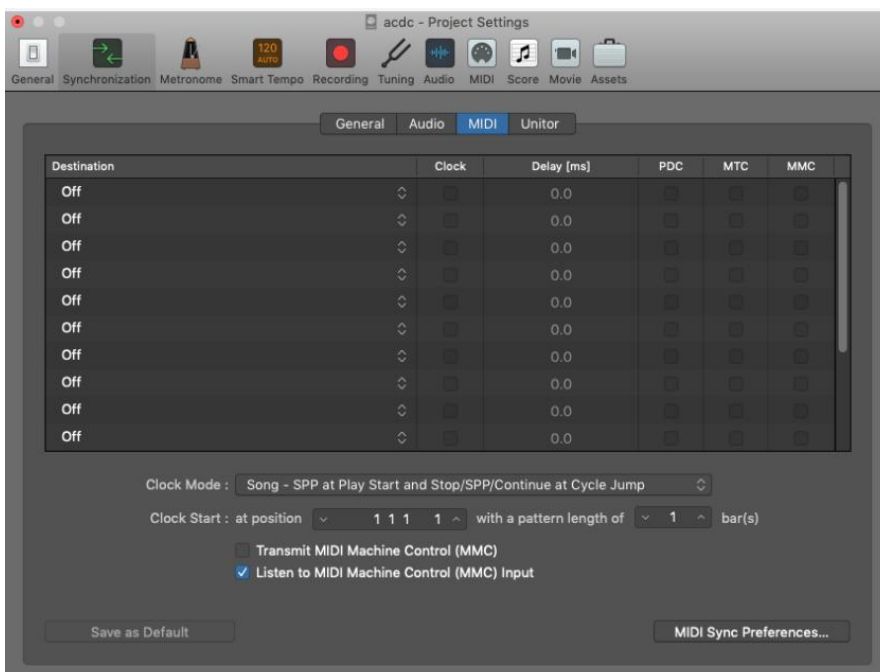
1. Go to menu: **Control Surfaces > MIDI...**



2. Click the **Sync** windows find the **MIDI sync Project Settings...** and click it

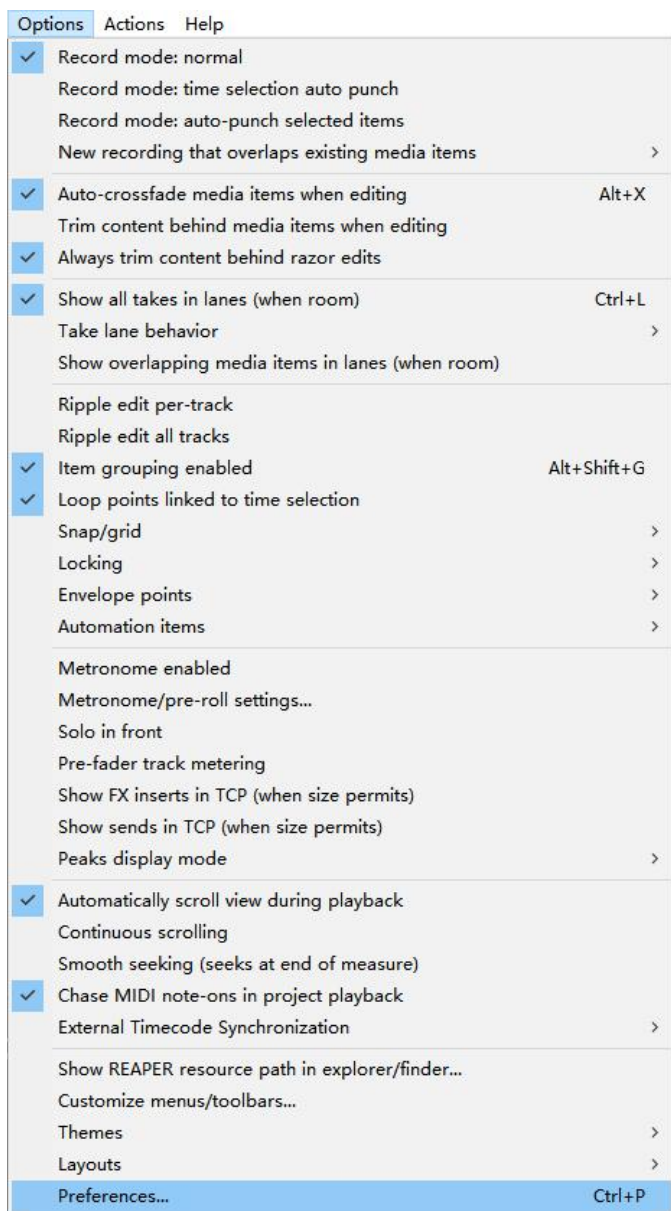


3. Enable the **Listen to MIDI Machine Control (MMC) Input**, then close the window to finish setup.

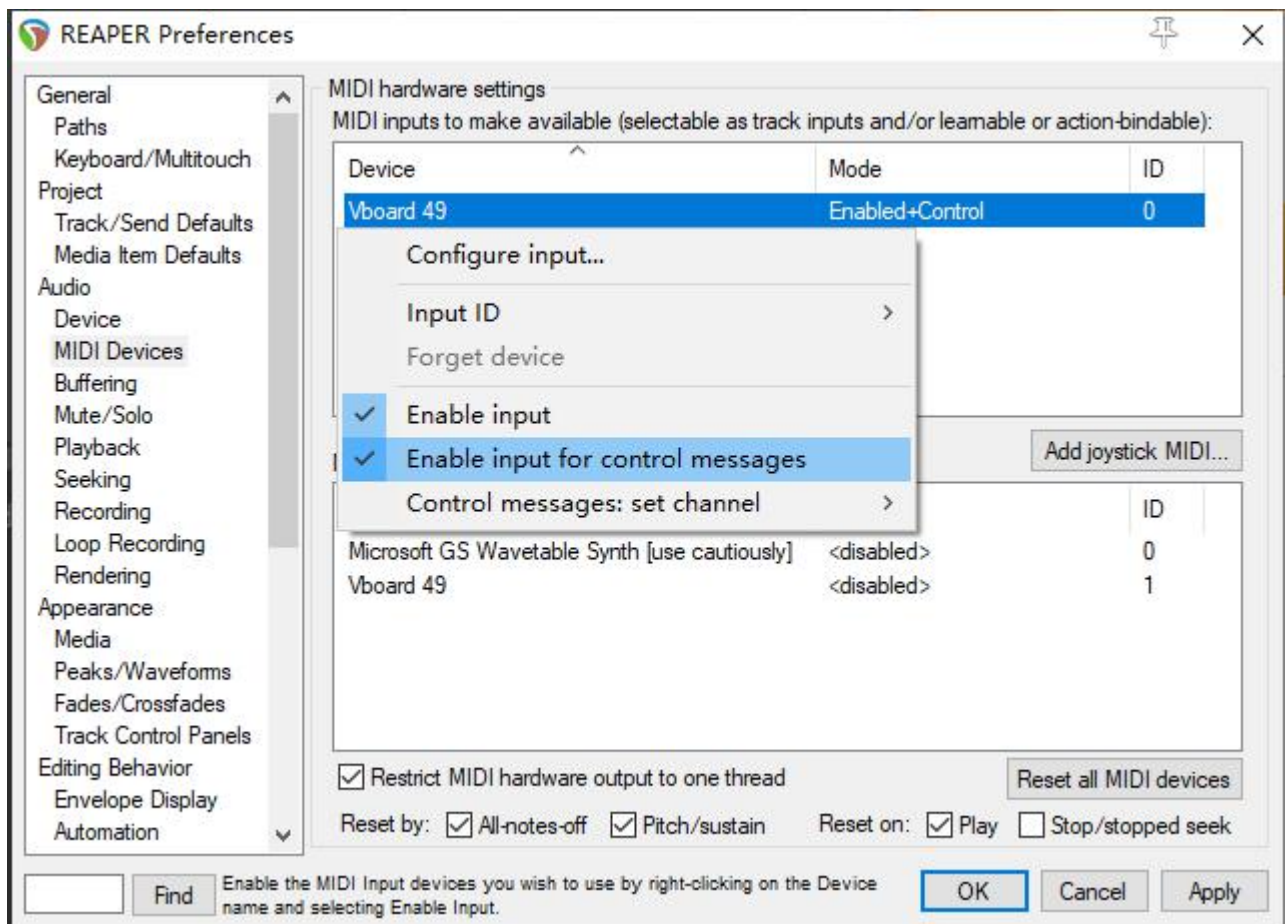


4.6 Reaper (MMC)

1. Go to menu: **Options > Preferences...** (keyboard shortcut: Ctrl+P)



2. In the Preferences window, click on the **MIDI Devices** tab, find and right click on the the **Vboard 49** from the Device list, select **Enable input** and **Enable input for control messages**, then close the window to finish setup.



5. Bluetooth MIDI Connect (iOS)

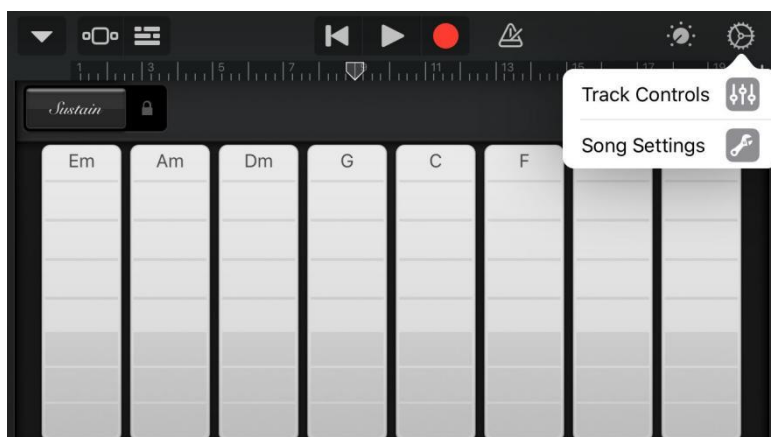
1. Open Control Center on your iOS device, find the Bluetooth and turn it on



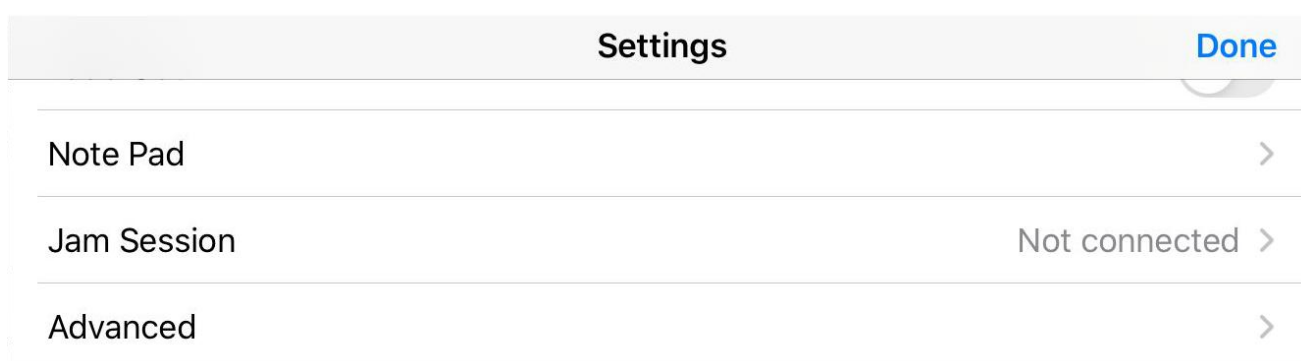
2. Open the app who support Bluetooth MIDI, such as GarageBand



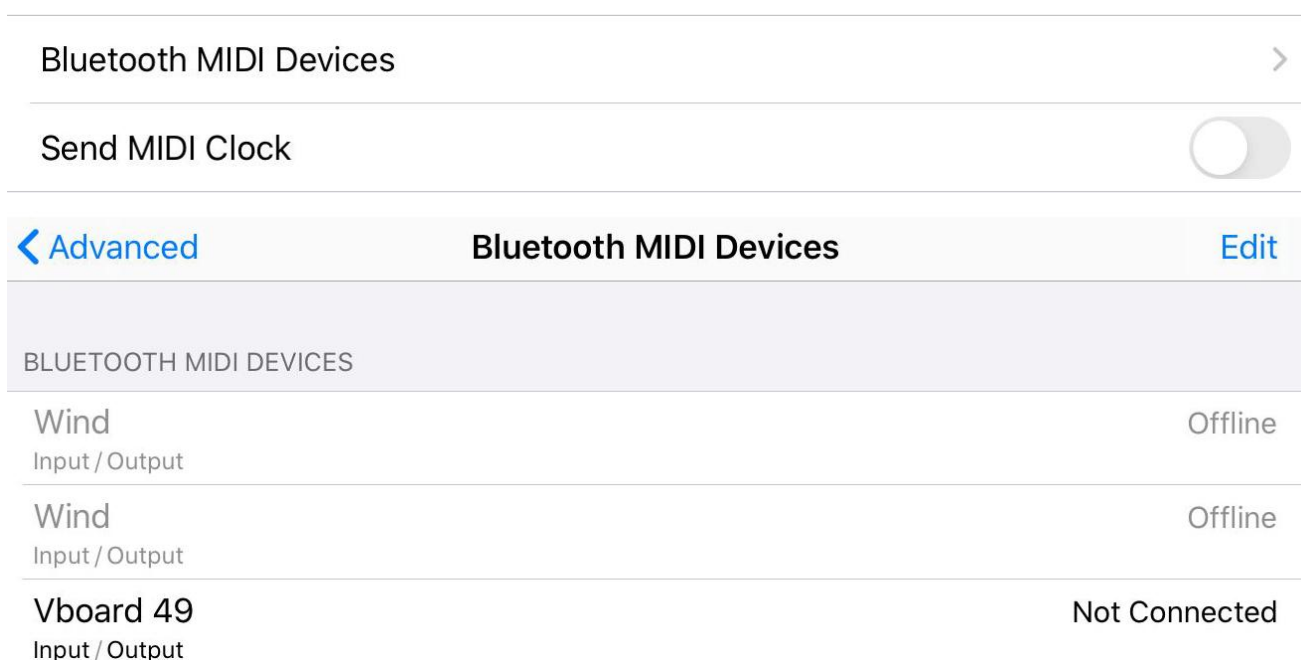
3. Chose a instrument and click it, find the song settings on Upper right corner setting logo



4. Click the Advanced menu



5. Click the Bluetooth MIDI Devices and connect Vboard 49 to finish setup



6. Appendix

6.1 Appendix

Product Name	Vboard49
Keyboard	49 notes keyboard with velocity sensitive
Maximum Polyphony	64
Screen	Nixie tube
Buttons	1 power button 2 Octave buttons 1a SHIFT button 1b Transport buttons
Knobs	2 knobs
Connectors	USB port, MIDI OUT and Sustain pedal input
Dimensions	fold 390 x 126 x 48 (mm) unfold 775 x 126 x 24 (mm)
Net Weight	1 kg

6.2 Scales

Display	Scale	Degree Formula
oFF	-	-
cn1	China1	C, D, E, G, A
cn2	China2	C, bE, F, G, bB
JP1	Japan1	C, bD, F, G, bB
JP2	Japan2	C, D, bE, G, bA
BLU	Blues	C, bE, F, #F, G, bB
bEb	BeBop	C, D, E, F, G, A, bB, B
WhT	Whole Tone	C, D, E, #F, #G, bB
EGY	Egypt	C, bD, bE, E, G, bA, bB
dor	Dorian	C, D, bE, F, G, A, bB
ME	Middle East	C, bD, E, F, G, bA, B
hP1	Harmonic Minor	C, D, bE, F, G, bA, B
PIn	Minor	C, D, bE, F, G, bA, bB
Phr	Phrygian	C, bD, bE, F, G, bA, bB
hUn	Hung Min	C, D, bE, #F, G, bA, B

6.3 MIDI CC List

CC Number	Purpose	CC Number	Purpose
0	Bank Select MSB	66	Sostenuto On/Off
1	Modulation	67	Soft Pedal On/Off
2	Breath Controller	68	Legato Footswitch
3	Undefined	69	Hold 2
4	Foot Controller	70	Sound Variation
5	Portamento Time	71	Timbre/Harmonic Intens
6	Data Entry MSB	72	Release Time
7	Main Volume	73	Attack Time
8	Balance	74	Brightness
9	Undefined	75 ~ 79	Undefined
10	Pan	80 ~ 83	General Purpose Controller 5 ~ 8
11	Expression Controller	84	Portamento Control
12 ~ 13	Effect Controller 1 ~ 2	85 ~ 90	Undefined
14 ~ 15	Undefined	91	Reverb Send Level
16 ~ 19	General Purpose Controller 1 ~ 4	92	Effects 2 Depth
20 ~ 31	Undefined	93	Chorus Send Level
32	Bank Select LSB	94	Effects 4 Depth
33	Modulation LSB	95	Effects 5 Depth
34	Breath Controller LSB	96	Data Increment
35	Undefined	97	Data Decrement
36	Foot Controller LSB	98	NRPN LSB
37	Portamento LSB	99	NRPN MSB
38	Data Entry LSB	100	RPN LSB
39	Main Volume LSB	101	RPN MSB
40	Balance LSB	102 ~ 119	Undefined
41	Undefined	120	All Sound Off
42	Pan LSB	121	Reset All Controllers
43	Expression Controller LSB	122	Local Control On/Off
44 ~ 45	Effect Controller LSB 1 ~ 2	123	All Notes Off
46 ~ 47	Undefined	124	Omni Mode Off
49 ~ 52	General Purpose Controller LSB 1 ~ 4	125	Omni Mode On
53 ~ 63	Undefined	126	Mono Mode On
64	Sustain	127	Poly Mode On
65	Portamento On/Off		

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.