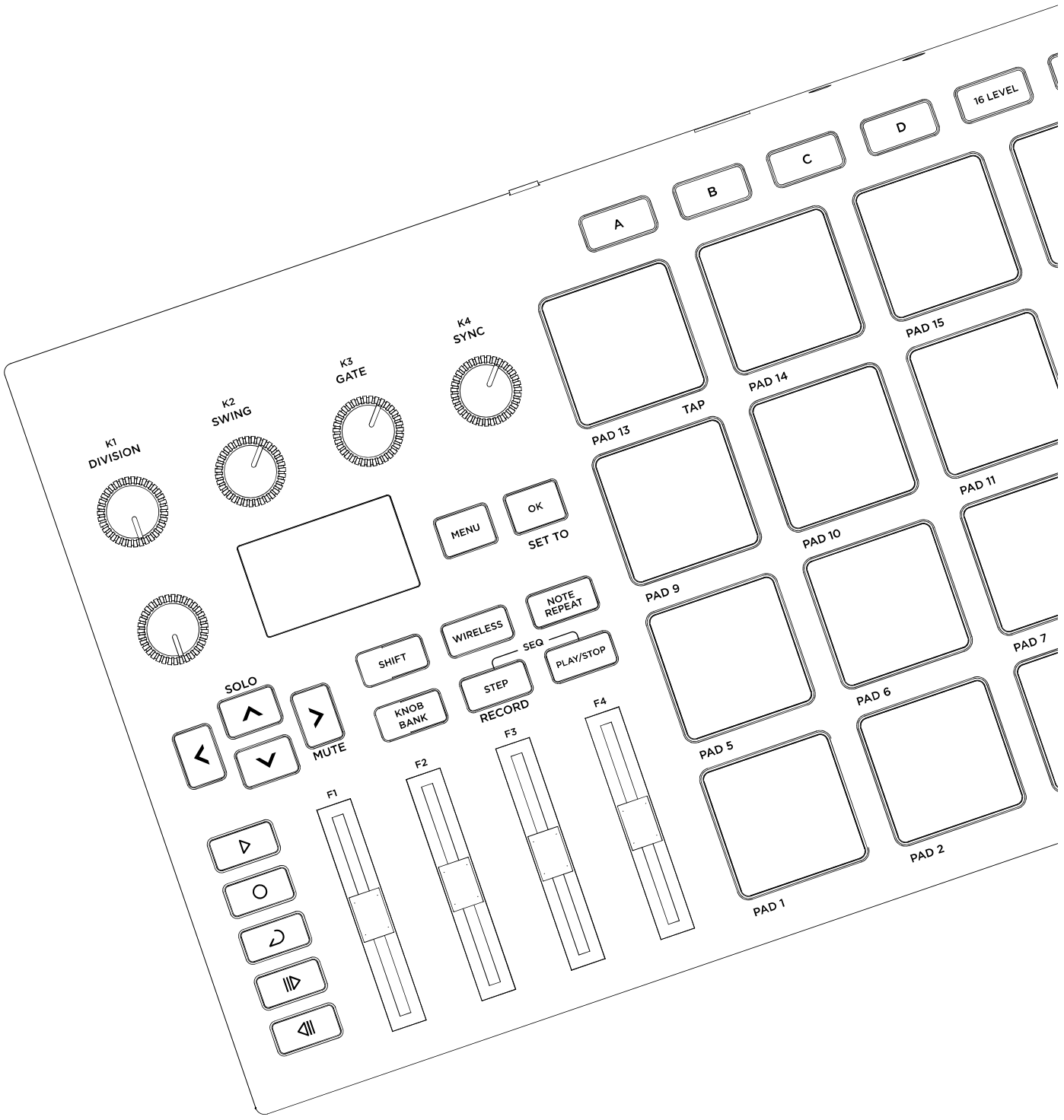


EMP-16 MIDI PAD

USER MANUAL V1.01

⚠WARNING


Do not open (or modify in any way) the unit.


Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so).


Never use or store the unit in places that are: Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat–generating equipment); or are damp (e.g., baths, washrooms, on wet floors); or are humid; or are exposed to rain; or are dusty; or are subject to high levels of vibration.


When using the unit with a rack or stand, the rack or stand must be carefully placed so it is level and sure to remain stable. If not using a rack or stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.


Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.


Protect the unit from strong impact. (Do not drop it!)


Keep any caps you may remove and the included wing bolts in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.


At regular intervals, you should unplug the power cord and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.


Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of reach of children.


Never climb on top of, nor place heavy objects on the unit.


Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.


Before moving the unit, disconnect and all cords coming from external devices.


Before cleaning the unit, turn off the power and unplug the power cord from the outlet.


Whenever you suspect the possibility of lightning in your area, disconnect the cables from the outlet.

IMPORTANT NOTES!

Maintenance

- For everyday cleaning, wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn
  dirt, use a cloth impregnated with a mild, non–abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Other attentions

- Please be aware that the unit's memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit.
- Please take care when using the unit's buttons or other controls, and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- When connecting/disconnecting all cables, grasp the connector itself–never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.

FCC WARNING

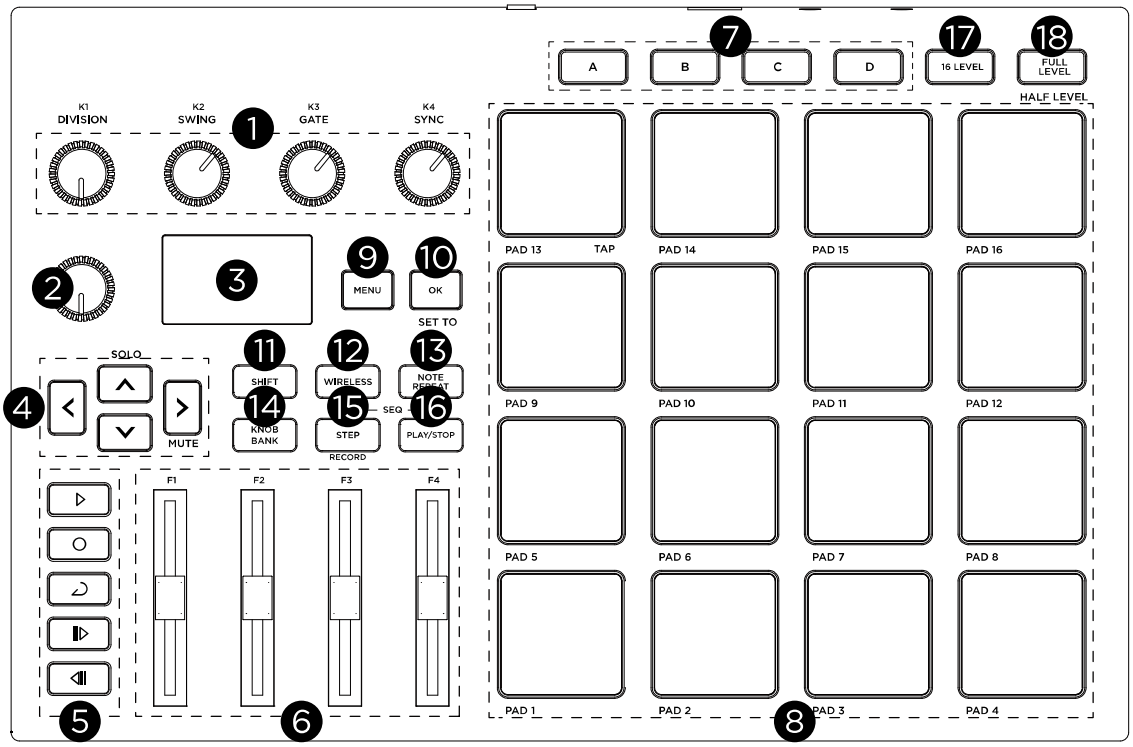
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: 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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.
This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co–located or conjunction with any other antenna or transmitter.

TOP AND REAR PANELS



1. 4 Assignable Knobs
Each 360º knob can continuously sends MIDI CC command.

2. Select Knob
The preset parameter groups can be adjusted at home page, parameters can be adjusted at MENU page, tempo can be adjusted at Note Repeat page.

3. OLED Screen
To display the menu and parameters.

4. Arrow Buttons
To choose parameters and switch pages.

5. Editable Buttons
To edit and send MIDI CC command.

6. Editable Fader
To edit and send MIDI CC command.

7. A/B/C/D Buttons
To switch A/B/C/D groups.

8. Pads
16 pads with dynamic response, different pad indicator colors can be set for performance.

9. MENU Button
To enter into Menu model, the setting parameters can be set with this button.

10. OK Button
The confirm button, can save the revised parameters at Menu page.

11. SHIFT Button
Shift for different functions as combination keys with other keys.

12. WIRELESS Button
Wireless BT connection button, the button light off indicates that Bluetooth is turned off; the button light flashing indicates that Bluetooth is turned on; the button light always on indicates that the Bluetooth connected.

13. NOTE REPEAT Button

For enable the NOTE REPEAT function, press the SHIFT+NOTE REPEAT button to enter the page for modifying NOTE REPEAT parameter, and press the SHIFT+ NOTE REPEAT button to exit the same page.

14. KNOB BANK Button

Switches different knob banks, you can switch the three groups of knobs A/B/C, the button light in red represents group A, green represents group B, and blue represents group C.

15. STEP Button

The step setting button of the sequencer function, press this button to set the step of the sequencer, it can set 16 steps; after pressing the button, all the indicator lights of the pad will turn green, then it can set the steps by tapping the pad at the time, If you want to cancel the setting, you can continue to hit the pad to make the indicator light turn green. Press the STEP button again to exit the setting.

16. PLAY/STOP Button

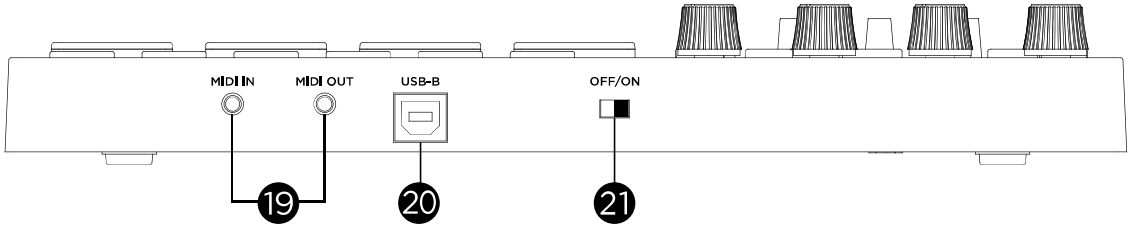
Sequencer play button, press this button to play the sequencer; before pressing the play button, user need to set the STEP of the sequencer first, and then return to the main menu to select a pad key value.

17. 16 LEVEL Button

Pressing the 16 LEVEL button will distribute the velocity value of the last pad you hit in 16 equal divisions onto 16 pads, allowing you to listen to the response of a key value at different levels of velocity.

18. FULL LEVEL Button

Press this button, the output velocity of all the pads would be the maximum value; press SHIFT+FULL LEVEL button to switch to HAFT LEVEL mode, the output velocity of all the pads is half of the maximum value.



19. MIDI IN/MIDI OUT port

5 PIN MIDI input/output port.

20. USB-B port

For power supply and data transmission.

21. OFF/ON

Power switch.

FUNCTION INTRODUCTION

Quick Start Guide

This MIDI pad is a MIDI controller that controls the sound of the sound source by sending MIDI signals. Steps to quickly adapt to MIDI pads:

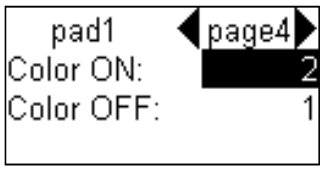
1. Connect the Type-B USB signal cable for power supply, or use two AA alkaline batteries for power supply;
2. Press POWER ON button;
3. Connect to DAW software or other audio hardware.

Tip: For details on connecting MIDI pads to external devices, please refer to the USB cable connection menu and the Bluetooth connection menu;

Light Settings

MIDI pads provide gorgeous lighting effects that can be edited. If you want to edit the lighting display for single or multiple pads, you can follow the steps below:

1. Press the MENU button, select Trigger option, and press OK button to enter the editing menu;
2. Tap the pad you want to modify the light, then press the Left and Right buttons to select Page4.



Color ON: The color displayed when the pad is hit;
Color OFF: The color displayed when the pad is not hit;

Tip: If you want to set a certain color to the whole group of pads, you can use the SET TO function, press the Shift+OK button, the page will jump to the SET TO menu, and you can set the parameters you choose to A/B/C/ D/ALL group.

Color list for LED light:

NO.	COLOR	NO.	COLOR	NO.	COLOR	NO.	COLOR
1	RED	5	BRIGHT ORANGE	9	LIGHT CYAN	13	PEARL VIOLET
2	GREEN	6	YELLOW	10	PURPLE	14	LIGHT GREEN
3	BLUE	7	BLUE GREEN	11	ANCIENT PINK	15	LIGHT BLUE
4	ORANGE	8	MAY GREEN	12	HEATHER VIOLET	16	WHITE

Edit MIDI Information Of Components

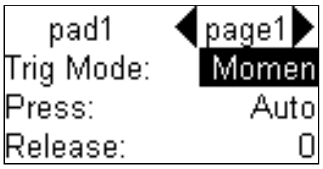
The MIDI pad supports on-device editing of MIDI values, eliminating the need for external editors. If you wish to edit the MIDI values of the pad/knobs/sliders/buttons, you can follow below steps:

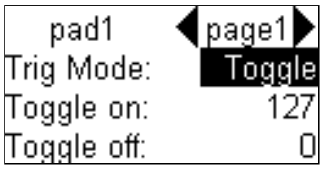
1. Press the MENU button, select "Trigger," and press OK;

2. You can tap on the pad, rotate knobs, push sliders, or press buttons to navigate to the MIDI parameter information of the component you want to modify;
3. Use the Left and Right buttons to select different pages.

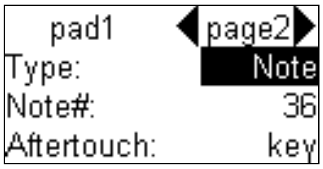
PAD

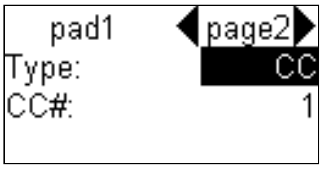
Modify the triggering mode (Trig Mode) of the pad. Options include "Momentary" and "Toggle". The default mode is "Momentary". In Momentary mode, the velocity value set for "Press" is triggered when the pad is struck, and the velocity value set for "Release" is triggered upon release. When "Press" is set to "Auto", the pad will automatically detect the velocity value of your strikes. Toggle mode triggers "Toggle on" velocity value on the first strike and "Toggle off" velocity value on the second strike, cycling through.



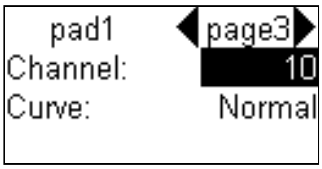


Modify the type (Type) of the pad. Options are "Note", "CC", and "Program". The default type is "Note". "Note" indicates the pad operates as a Note type and can be set with Note value (Note#) and Aftertouch type. "CC" indicates the pad operates as a CC control type and can be set with CC value (CC#). "Program" indicates the pad operates as a Program type and can be set with Program value (Program#).



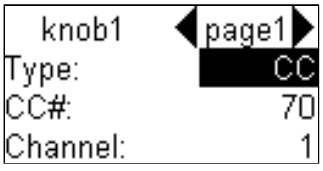


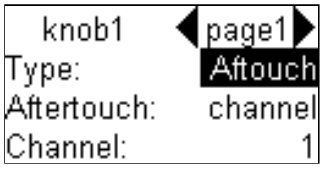
Modify the MIDI output channel (Channel) of the pad. Options are channels 1-16. The default channel is 10.



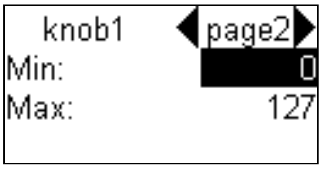
Knob

Modify the type (Type) of the knob. Options are "CC" and "Aftertouch." The default type is "CC." "CC" indicates the knob operates as a CC type and can be set with CC value (CC#) and output channel (Channel). "Aftertouch" indicates the knob operates as an Aftertouch type and can be set with Aftertouch and output channel (Channel).)



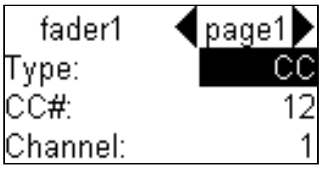


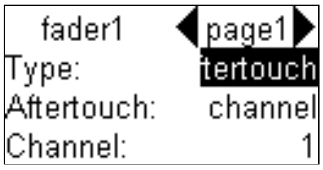
Modify the boundary values of the knob. You can adjust the maximum (Max) and minimum (Min) boundary values of the knob's values.



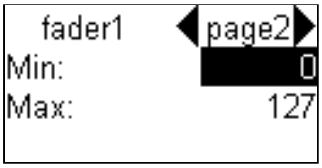
Fader

Modify the type (Type) of the slider. Options are "CC" and "Aftertouch". The default type is "CC". "CC" indicates the slider operates as a CC type and can be set with CC value (CC#) and output channel (Channel). "Aftertouch" indicates the slider operates as an Aftertouch type and can be set with Aftertouch and output channel (Channel).



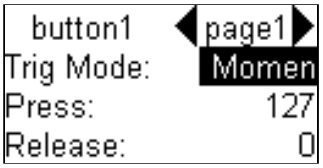


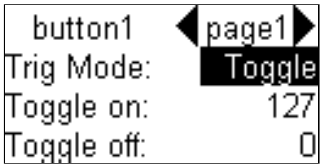
Modify the boundary values of the slider. You can adjust the maximum (Max) and minimum (Min) boundary values of the slider's values.



Button

Modify the triggering mode (Trig Mode) of the button. Options include "Momentary" and "Toggle." The default mode is "Toggle." In Momentary mode, the velocity value set for "Press" is triggered when the button is pressed, and the velocity value set for "Release" is triggered when released. Toggle mode triggers "Toggle on" velocity on the first press and "Toggle off" velocity on the second press, cycling through.

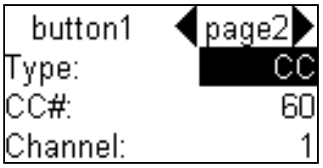


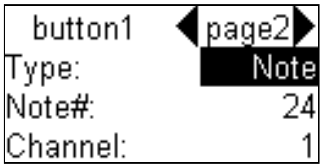


You can change the type (Type) of the transport buttons. There are two options: Note and CC. The default is CC type.

Note: When set to "Note," the transport buttons function as Note types. You can specify the Note value (Note#) and the output channel (Channel).

CC: When set to "CC," the transport buttons function as CC control types. You can specify the CC value (CC#) and the output channel (Channel).





TRANSPORT FUNCTION

You can use the default transport buttons to control the tape function of Cubase 12 and above. The default settings are as follows:

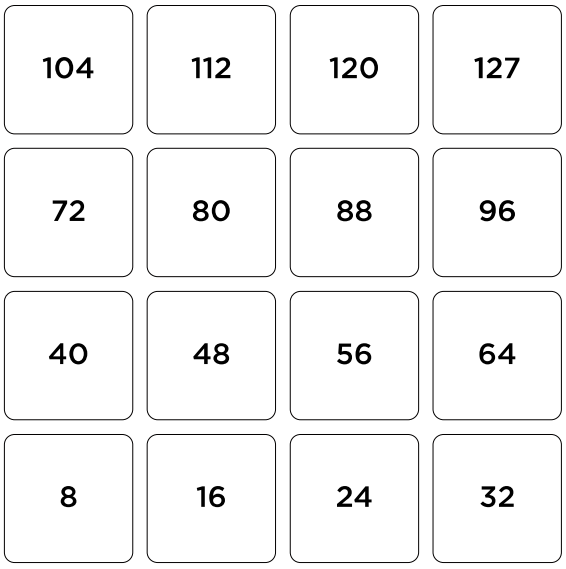
Function	CC Value	CC Channel	Max	Min
Start	60	1	127	0
Record	61	1	127	0
Cycle Active	62	1	127	0
Forward	63	1	127	0
Rewind	64	1	127	0

Note: If you modify the default parameters of the transport buttons, they may not correspond to the transport control of Cubase. If you need to control the tape function of other DAW software, you may need to set up the MIDI mapping relationship again.

16 LEVEL

You can use the [16 LEVEL] button to divide the velocity of a key value into 16 parts, allowing you to showcase different layers of intensity for a sound. Follow these steps:

1. Tap the pad you want to use the [16 LEVEL] function for.
2. Press the [16 LEVEL] button. Now, when you strike any of the 16 pads, they will correspond to different intensities of the same key value. The intensity distribution is shown in the diagram below:



Tip: The last pad you tapped before pressing the [16 LEVEL] button will be divided into 16 intensities distributed among the 16 pads.

BLUETOOTH CONNECTION

The MIDI pad can be connected to other devices that support Bluetooth MIDI. Follow these steps:

1. Press the Wireless button. When the indicator light blinks, Bluetooth is activated, and no other Bluetooth device is connected.
2. Enable Bluetooth on your device and search for the Bluetooth device named "MIDI PAD-01."

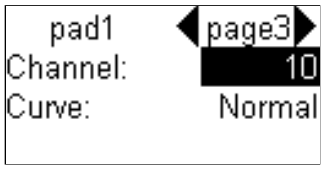
Note: This product can be connected via Bluetooth to devices such as iPad, Win8 and above systems, Mac, Android, and more.

USB CABLE CONNECTION

The MIDI pad can be connected to other devices using a Type-B USB cable for communication and to provide power to the MIDI pad.

VELOCITY RESPONSE SETTINGS

You can adjust the velocity response curve of the pads to achieve the desired effect. You can also use the Full Level and Half Level buttons to set a fixed maximum or half value for the velocity response. Follow these steps:



Press the MENU button, select Trigger, and press OK to enter the editing page.
Strike the pad you want to modify, use the Left and Right buttons to select Page 3, and choose the Curve value.

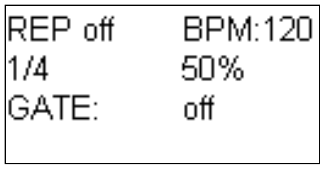
Tip: To set the velocity curve to all pads, you can use the SET TO function. Press Shift + OK to enter the SET TO page. You can set the selected parameters to A/B/C/D/ALL groups.

16-STEP SEQUENCER FUNCTION

The 16-step sequencer function allows you to play 16 notes according to your specified pattern. Using the 16-Step Sequencer:

1. Press the STEP button to enter the sequencer step setting page. PAD1 to PAD16 represent the 16 steps of the sequencer. You can tap on the pads to set or cancel steps.
2. Press the PLAY button to activate the sequencer. Return to the main menu and tap on the pads to play the notes corresponding to the active steps in the sequencer.
3. You can modify the step settings of the sequencer while it's active.
4. Each pad group can have its own sequencer steps and activate its own sequencer.

To adjust the sequencer's speed, press Shift + Note Repeat and use the parameter knob to make changes.



Note: The 16-step sequencer function allows you to create rhythmic and melodic patterns by activating and deactivating steps on the pads. You can customize the sequence playback to enhance your musical performance.

NOTE REPEAT

With the Note Repeat function, holding down a pad will send MIDI data based on the set note time. Follow these steps:

1. Press the Note Repeat button. When you strike a pad, it will send MIDI data based on the Note Repeat parameters you've set.
2. Press Shift + Note Repeat to enter the Note Repeat parameter setting page. You can rotate the corresponding knob to modify the parameters. To exit this page, press Shift + Note Repeat again.

RESET

On the main menu, press and hold the OK button for 5 seconds to bring up the reset menu. Use the Left and Right buttons to select "Yes," and then press OK to delete all parameters.

SLEEP MODE

If there's no activity for 30 minutes, the pad will enter sleep mode. All lights and the display screen will turn off. When you use the pad again, it will be activated.

VERSION NUMBER

On the main menu, press the OK button 8 times in a row to view the current program version number.