



User Manual

MIDIPLUS

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Introduction

Thank you for purchasing the X Max Series MIDI keyboard. This series includes X4 Max, X6 Max, and X8 Max, which feature 49, 61, and 88 semi-weighted keys with velocity-sensitive and aftertouch. They come with over 200 built-in voices, equipped with pitch bend and modulation wheels, transport controls, encoders, and pads. In addition, the X Max Series is compatible with many popular DAWs. It offers 20 smart scales, including Chinese Pentatonic, Japanese, Blues and more. With four velocity response curves, including Normal, Fixed, Soft and Hard, it provides an enhanced user experience. Please read this guide carefully before use to get started quickly.

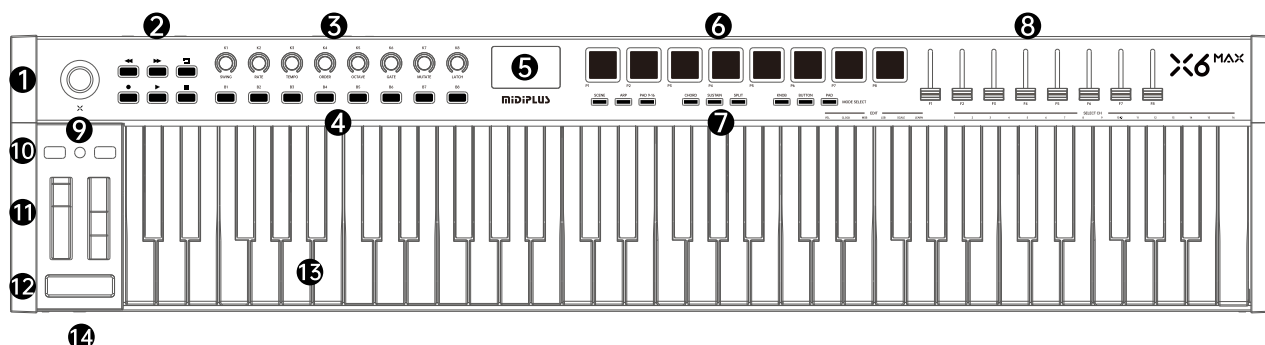
Important Notes:

Please read the following precautions carefully before use to avoid damaging the equipment or causing personal injury. Precautions include but are not limited to the following:

1. Read and understand all the illustrations.
2. Always follow the instructions on the device.
3. Before cleaning the device, always remove the batteries and the USB cable. When cleaning, use a soft and dry cloth. Do not use gasoline, alcohol, acetone, turpentine or any other organic solutions; do not use a liquid cleaner, spray or cloth that's too wet.
4. Disconnect the USB cable and remove the batteries if not used for extended periods.
5. Do not use the device near water or moisture, such as a bathtub, sink, swimming pool or similar place.
6. Do not place the device in an unstable position where it might accidentally fall over.
7. Do not place heavy objects on the device.
8. Do not place the device near a heat vent at any location with poor air circulation.
9. Do not open or insert anything into the device that may cause a fire or electrical shock.
10. Do not spill any kind of liquid onto the device.
11. Do not expose the device to hot sunlight.
12. Do not use the device when there is a gas leak nearby.

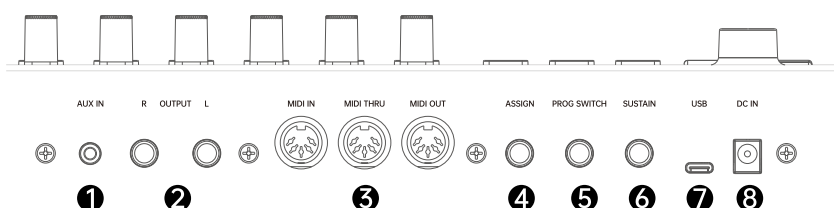
1. Overview

1.1 The Top Panel



- ① **X knob**: For controlling DAW and software instrument parameters or setting the keyboard parameters.
- ② **Transport buttons**: For controlling the transport of DAW.
- ③ **Knobs**: For the control of DAW and software instrument parameters.
- ④ **Buttons**: For the control of DAW and software instrument parameters.
- ⑤ **Display**: Provides real time feedback of control information.
- ⑥ **Pads**: Send channel 10 instrument notes.
- ⑦ **Function buttons**: For controlling the keyboards function.
- ⑧ **faders (Only X6 Max and X8 Max)** : For the control of DAW and software instrument parameters.
- ⑨ **Transpose button**: Activate keyboard's semitone control.
- ⑩ **Octave buttons**: Activate keyboard's octave control.
- ⑪ **Pitch & Modulation touch joywheel**: For controlling the pitch bend and modulation parameters of the sound.
- ⑫ **X band**: For controlling the expression of sounds.
- ⑬ **Keyboard**: Trigger notes on/off, also can be used as shortcuts to access edit more parameters.
- ⑭ **Headphone**: For access to 6.35mm headphones.

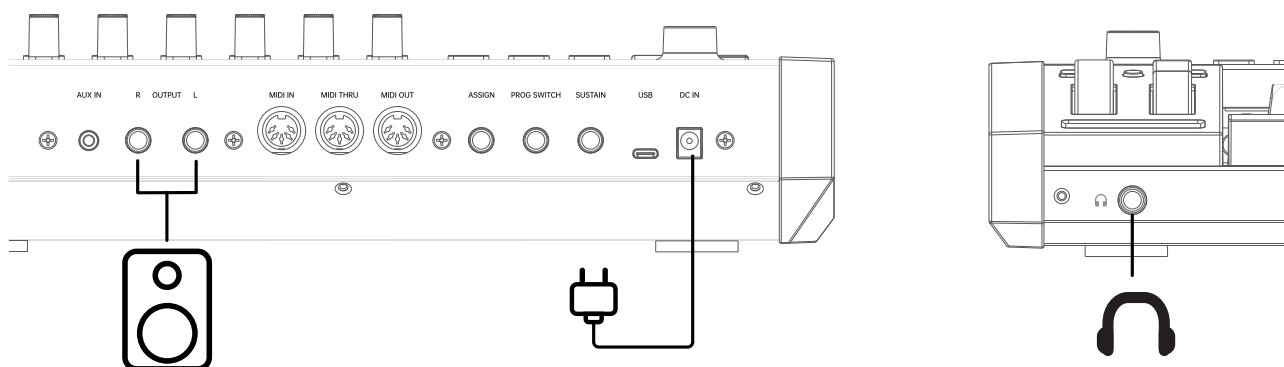
1.2 The Rear Panel



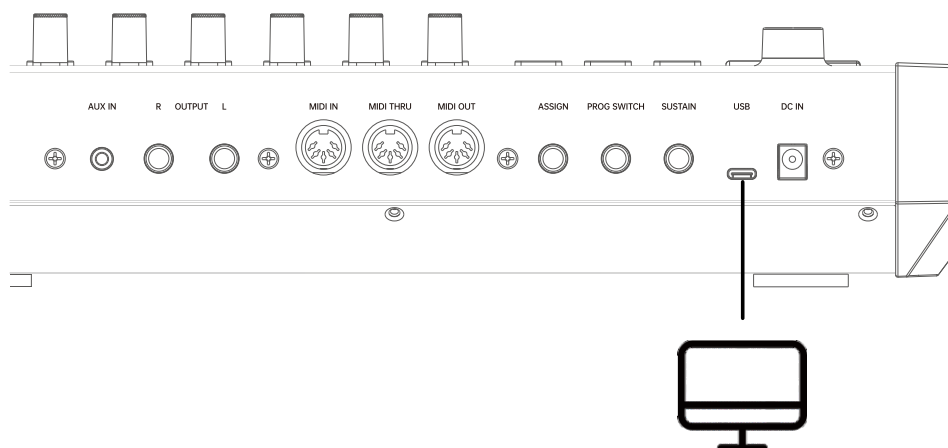
- ① **AUX IN**: Stereo audio input.External devices can be connected (**TRS cable only**)
- ② **OUTPUT L/R**: Use balanced cable for connecting active speaker.
- ③ **MIDI IN/THUR/OUT**: Receive or send MIDI message, connect the external MIDI device.
- ④ **ASSIGN**: Assignable pedal input, connect an expression pedal by default.
- ⑤ **PROG SWITCH**: Assignable pedal input, connect a program change pedal by default.
- ⑥ **SUSTAIN**: Assignable pedal input, connect a sustain pedal by default.
- ⑦ **USB**: Connect to your computer, this port provides both power and MIDI data. (**Does not support fast charging!**)
- ⑧ **DC**: Conect the power adapter.

2. Guide

2.1 Ready to use



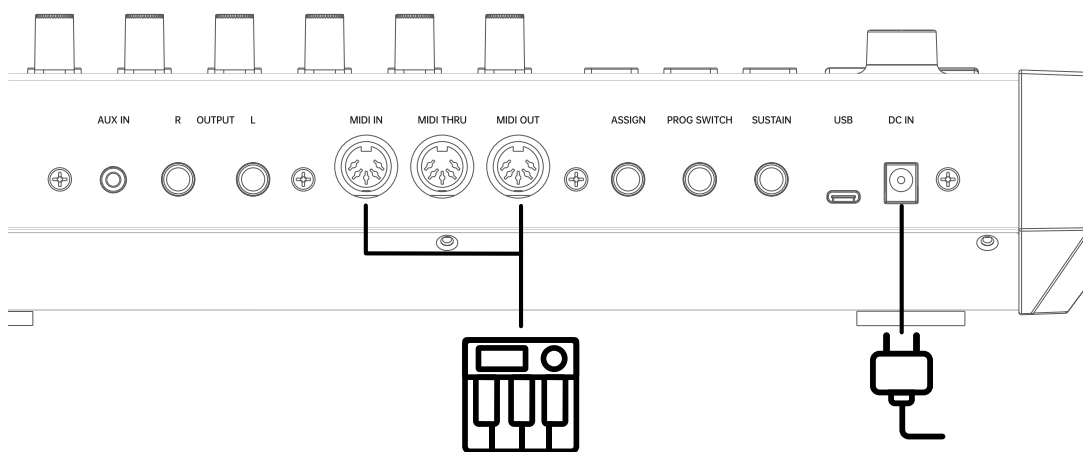
Play in standalone: Please use the included power adapter to connect the X Max, at the same time, please plug your headphones into the headphone jack of the X Max. Alternatively, you can connect to the active speaker through the rear OUTPUT L/R jacks, turn the X knob to select a voice and start playing.



Connect to a Computer: Please use the included USB cable to connect the X Max to your computer. The X Max is a plug-and-play device on both Windows and Mac OS, and it will automatically install the necessary drivers without any additional installation. After launching your DAW software, select the X Max as your MIDI input device to get started.

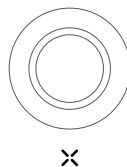


Select a scene: X Max's default scene is Performance, which is designed for standalone use for practice and performance. When you connect X Max to your computer and use DAWs, you can press the SCENE button and then turn the X knob to select the scene that corresponds to your DAW software for a better experience.



Use with external MIDI device: Use the supplied included power adapter to connect the X Max, and then connect the X Max's MIDI OUT/MIDI IN jacks to the MIDI jacks of an external MIDI device using a 5-pin MIDI cable.

2.2 X Knob

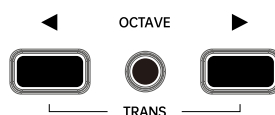


The X knob has two working mode, the default mode is General Mode, long press about 0.5 seconds to switch to Setup Mode, which allows you to set the keyboard's relevant parameter options, for more details please refer to [4. Setting Mode](#).

Normal Mode: Turn the X knob to switch sound. Mode change when using some of the function buttons and key sub-functions.

Setting Mode: Turn the X knob to select options, press to confirm, press about 0.5 seconds to exit the setting mode.

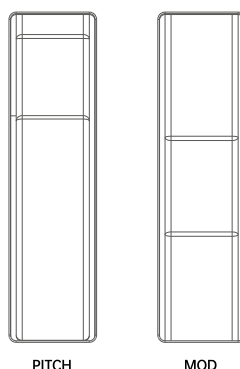
2.3 Transpose and Octave



Pressing the ◀ or ▶ button to shift the octave range of keyboard, when activated, the selected octave button will light up, press the ◀ and ▶ buttons simultaneously to quickly reset the octave shift.

Press and hold the **TRANS button**, then pressing the ◀ or ▶ button to transpose, when activated, the **TRANS button** will light up, at this time press the **TRANS button** once to turn off the shift temporarily, press the **TRANS button** again to restore the shift memory of the last shift, and press the **TRANS button** to reset the shift setting, the **TRANS button** light will indicate that the shift has been activated with bright orange, the button light will indicate that there exists a shift memory with 70% bright orange, and the button light will indicate that the shift has not been activated or that the shift is zero with dark orange.

2.4 Pitch and Modulation



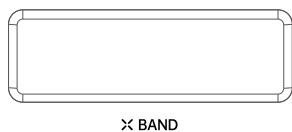
Two joywheel allow for real-time **pitch bend** and **modulation control**.

Sliding up or down on the Pitch joywheel will raise or lower the pitch of the selected tone. Pitch defaults to the middle position and will automatically return to the middle point when you release your hand.

Sliding up on the Modulation touch joywheel increases the amount of modulation on the selected

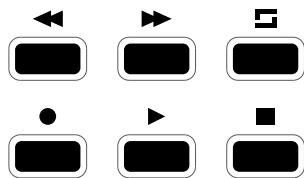
sound. Mod defaults to the bottom position and will remain in the last position touched by your finger when you release your hand.

2.5 X band



X Max series keyboard has a capacitive touch strip for real-time expression control. Sliding left or right on the **X band** will raise or lower the expression. Leftmost is 0, default is the max. Sliding left or right, the parameters will remain in the last position touched by you release your hand.

2.6 Transport Buttons



X Max series keyboard has 6 transport buttons with two mode: **Performance**(default) and **DAWs** mode. Pressing the **SCENE** button, you can change different DAWs mode. Please refer to [3.1 SCENE Button](#) for detailed operation.

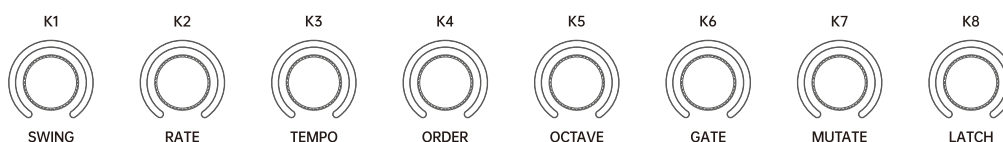
The tansport buttons in **Performance mode** have an undefined MIDI CC number, You can map within the DAW software based on your personal usage habits.

In **DAWs mode**, these buttons controls the transport of DAWs, Please refer to [6. DAW Settings](#) for detailed operation steps.

Button	DAW Mode	Performance mode (MIDI CC)
⏮	Rewind	CC116
⏭	Fast Forward	CC115
🔄	Cycle	CC114
●	Record	CC117
▶	Play	CC118
■	Stop	CC119

You can change the buttons' MIDI CC (Continuous Controller) number to control other functions via the configuration software **MIDIPLUS Control Center**. Please refer to [7. MIDIPLUS Control Center](#) for detailed operation.

2.7 Knobs



X Max series keyboard has 8 assignable knobs with three mode: Performance(default), DAWs and ARP mode.the control functions of each knob are as follows:

Knob	Function	MIDI CC Number
K1	Portamento Time	CC05
K2	Portamento Control	CC84
K3	Timbre/Harmonic Intens	CC71
K4	Brightness	CC74
K5	Chorus Send Level	CC93
K6	Reverb Send Level	CC91
K7	Pan	CC10
K8	Channel Volume	CC07

You can change the knobs' MIDI CC (Continuous Controller) number to control other functions via the configuration software **MIDIPLUS Control Center**. Please refer to [7. MIDIPLUS Control Center](#) for detailed operation.

2.8 Buttons

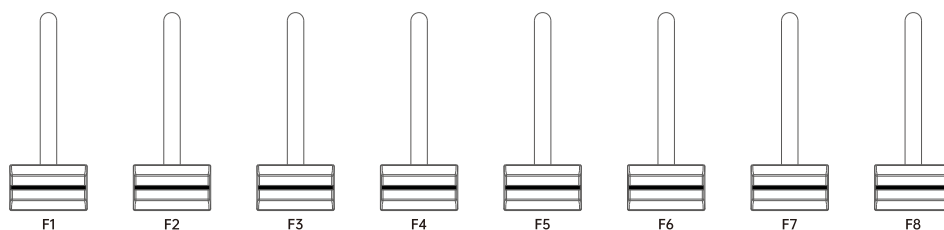


X Max series keyboard has 8 assignable buttons with three mode: Performance(default), DAWs and Program Change mode.the control functions of each button are as follows:

Button	Function	MIDI CC Number
B1	Portamento On/Off	CC65
B2	Sostenuto On/Off	CC66
B3	Soft Pedal On/Off	CC67
B4	Legato FootControl	CC68
B5	General Purpose Controller 5	CC80
B6	General Purpose Controller 6	CC81
B7	General Purpose Controller 7	CC82
B8	General Purpose Controller 8	CC83

You can change the buttons' MIDI CC (Continuous Controller) number to control other functions via the configuration software **MIDIPLUS Control Center**. Please refer to [7. MIDIPLUS Control Center](#) for detailed operation.

2.9 faders (only X6 Max and X8 Max)



X Max series keyboard has 8 assignable faders with two mode: Performance(default) and DAWs mode.the control functions of each fader are as follows:

fader	Function	MIDI CC Number
K1	Breath Controller	CC02
K2	Vibrato Rate	CC76
K3	Vibrato Depth	CC77
K4	Celestes Depth	CC94
K5	Tremolo Depth	CC92
K6	Phaser Depth	CC95
K7	Attack Time	CC73
K8	Release Time	CC72

You can change the faders' MIDI CC (Continuous Controller) number to control other functions via the configuration software **MIDIPLUS Control Center**. Please refer to [7. MIDIPLUS Control Center](#) for detailed operation.

2.10 Pads



The **X Max** series features 8 velocity-sensitive pads with RGB lights, featuring 4 modes that are switched via the PAD button and CHORD button.

Press the **CHORD button** to switch between **Note mode** and **Chord Memory mode**, and press the **PAD button** to switch between **Note mode** and **CC mode**. You can press the **PAD button** to activate the **Chord Trigger mode** after opening the **CHORD button**.

NOTE mode(Default): Press any PAD to play drums, default control MIDI channel 10.

Chord Memory mode: Store chords in the PAD, press any one PAD and play one key to play the chord.

CC mode: Press any PAD send MIDI CC.

Chord Trigger mode: Press any one PAD to play the chord, default control MIDI channel 1.

2.11 Function Buttons



X Max series keyboard has 9 function buttons, please refer to [3. Function Buttons](#) for detailed operation steps.

SCENE Button: Change DAW preset.

ARP Button: Arpeggiator.

PAD 9-16 Button: Page turning of PADs.

CHORD Button: Switch the PADs to chord memory mode.

SUSTAIN Button: Sustain on or off.

SPLIT Button: Keyboard split.

KNOB Button: Switch the knobs to arpeggiator control.

BUTTON Button: Switch the buttons to quickly change the sound.

PAD Button: Switch the PADs to chord trigger and CC mode.

2.12 Keyboard

X Max provides 49/61/88 Full-sized, Semi-weighted velocity-sensitive Keys. These keys also can be used as shortcuts to set controllers, MIDI channel in Setting Mode, for details, please refer to [4. Setting Mode](#).



When in Setting Mode, the keys with labeled functions will be used as shortcuts to access the parameters, the labeled keys as follow:

VEL.: Setting the keyboard velocity sensitive curve, select between **Normal**, **Fixed**, **Soft**, **Hard** or **Custom**. The default is **Normal**.

CLOCK: Setting the ARP clock control, select between **Internal**, **USB** and **MIDI IN**. The default is **Internal**.

MSB: Setting the controller number for "Most Significant Byte" (ie, MSB) of Bank Select. This message has a range between 0 and 127. The default is 0.

LSB: Setting the controller number for "Least Significant Byte" (ie, LSB) of Bank Select. This message has a range between 0 and 127. The default is 0.

SCALE: Selecting the build in Smart Scale, when a scale is selected, the scale notes will be mapped on the white keys, for details, please refer to [8.2 Scales](#), the default is Off.

LEARN: Set the scale mode to **EASY** or **LEARN**.

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

Note: The keyboard aftertouch can be assigned to any CC controller. The default functions for each scene preset are as follows:

Scene	Aftertouch	Assignable
Performance	CC01	No
Ableton Live	Channel Aftertouch	No
Steinberg Cubase	Channel Aftertouch	No
FL Studio	Channel Aftertouch	No
Logic Pro	Channel Aftertouch	No
Performance1	CC01	Yes
Performance2	CC01	Yes

3. Function Buttons

3.1 SCENE Button



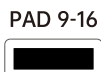
Press the **Scene button**, turn the X knob to switch DAW. Press again to confirm the current selection, and the knobs, buttons, faders and transport buttons become the corresponding DAW control. X Max series keyboard also includes 2 Performance presets and 3 USER presets for users to create their own presets.

3.2 ARP Button



Press the **ARP button** to activate the arpeggiator, and the Knob button will light up. You can press any note to play the arpeggiator, and turn the knobs to change ARP parameters. Please refer to [3.7 KNOB Button](#) for detailed operation of **Knob button**.

3.3 PAD 9-16 Button



Press the **PAD 9-16 button** to page turning of PADs, you can turn pages in **note mode**, **Chord Memory mode** and **Chord Trigger mode**.

3.4 CHORD Button



Chord button have 2 function mode:

Short press the button activate **Chord Memory mode**, select any one PAD can play the PAD chord.

Pressing and holding the button to enter **Chord Recording mode**, select any one PAD and the PAD light will flash. Then play any note on the keyboard, and press the PAD to stored the chord. Press and hold the chord button again to exit recording, and the chord can be used for **Chord Memory mode** and **Chord Trigger mode**.

3.5 SUSTAIN Button



Sustain button has 2 trigger modes:

Short press the button will on, press again will off.

Pressing and holding the button without releasing it switches the sustain function on, and releasing it switches it off.

3.6 SPLIT Button



Split button have 2 triggering mode:

Short press button will on, the default split point is C4. Any operation after power on will only affect the left partition. Press again will off.

If you press and hold the button without releasing it and press any note to change the split point, that note will be the new split point when the button is released.

3.7 KNOB Button



When the **Knob button** is pressed, the 8 controller knobs' functions change to ARP parameter control functions. When the **ARP button** is turned on, the **Knob button** is also turned on. The functions of the knobs when the **Knob button** is switched on are as follows.

K1/Swing: Control the swing of even notes. You can select OFF or the range from 51~75, the default is OFF.

K2/Rate: Set the duration of each arpeggiator step. You can select 1/4, 1/4 Triplet, 1/8, 1/8 Triplet, 1/16, 1/16 Triplet, 1/32 or 1/32 Triplet, the default is 1/8.

K3/Tempo: Control the tempo of arpeggiator, and the tempo range is from 30~300 BPM. The default is 120 BPM.

K4/Order: Change the playing order of arpeggiator. You can select Up, Down, EXCL, INCL, Played, Random or Mutate. The default is Up.

Up: Plays the current notes from lowest to highest.

Down: Plays the current notes from highest to lowest.

EXCL: Plays the current notes from lowest to highest and back again, the lowest note and the highest note play once.

INCL: Plays the current notes from lowest to highest and back again, the lowest note and the highest note play twice.

Played: Plays the current notes in the order they were originally played.

Random: Plays the current notes in a random, non-repeating order.

Mutate: Plays the current notes in mutate.

K5/Octave: Control the octave of arpeggiator, and the octave range is from 1~4. The default is 1.

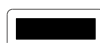
K6/Gate: Control the length of the individual notes, and the range is from 5%~95%. The default is 50%.

K7/Mutate: Control the parameters of mutate, and the range is from 0~100. The default is 0.

K8/Latch: Control the state of arpeggiator when your hands leave the keyboard. You can select OFF and ON, the default is OFF.

3.8 BUTTON Button

BUTTON



8 buttons default CC mode, when the **Button button** is pressed, the 8 button functions change to quick sound select. Press the **Button button** again back to the CC mode function of buttons. The functions of the buttons when the **Button button** is switched on are as follows.

Number	Sound
B1	Grand Piano
B2	Dyno E.Piano
B3	FM E.Piano DX
B4	Class.Strs&Pad
B5	Class.Polysyn
B6	M12 Brass
B7	Bangdi
B8	Guzheng

3.9 PAD Button

PAD



PAD button has 2 function mode:

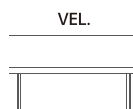
The 1st mode: Press the **PAD button** to switch between **Note mode** and **CC mode**. The first press switches the PAD to **CC mode** and the **PAD button** with bright orange, press any PAD to send MIDI CC. The second press switches the PAD to **Note mode** and the **PAD button** with dark orange, press any PAD to play drums.

The 2nd mode: When the **CHORD button** is open with bright orange, the **Chord Memory mode** of the PAD is activated. Then press the **PAD button**, the **CHORD button** will turn dark orange and the **PAD button** will turn green, PAD will go into **Chord Trigger mode**. In **Chord Trigger mode**, press the **PAD** to play chords directly. Press the **PAD button** again to change to **Chord Memory mode**, the **PAD button** will turn dark orange and the **CHORD button** will turn bright orange, press any one PAD to play one key chord.

4. Setting Mode

In the Setting Mode, you can set your keyboard easily. Long press the X knob about 0.5 second, the knob light will breathing when enter the Setting Mode.

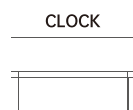
4.1 Changing The Keyboard Velocity Curve



Press and hold the X knob for about 0.5 seconds, when the knob light is breathing, follow these steps:

1. Press the key labeled "**VEL.**", the screen will display the currently selected velocity curve,
2. Turn the X knob to select **Normal**, **Fixed**, **Soft**, **Hard** or **Custom**,
3. Press the X knob to confirm, the screen will display you just selected velocity curve.

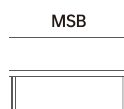
4.2 Changing The MIDI Clock Mode



Press and hold the X knob for about 0.5 seconds, when the knob light is breathing, follow these steps:

1. Press the key labeled "**CLOCK**", the screen will display the currently selected MIDI clock mode,
2. Turn the X knob to select **Internal**, **USB** or **MIDI IN**,
3. Press the X knob to confirm, the screen will display you just selected MIDI clock mode.

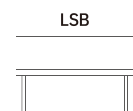
4.3 Changing The Bank MSB



Press and hold the X knob for about 0.5 seconds, when the knob light is breathing, follow these steps:

1. Press the key labeled "**MSB**", the screen will display the currently value,
2. Turn the X knob to set the controller number between 0 and 127,
3. Press the X knob to confirm, the screen will display you just selected controller number.

4.4 Changing The Bank LSB

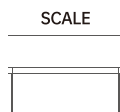


Press and hold the X knob for about 0.5 seconds, when the knob light is breathing, follow these steps:

1. Press the key labeled "**LSB**", the screen will display the currently value,

2. Turn the X knob to set the controller number between 0 and 127,
3. Press the X knob to confirm, the screen will display you just selected controller number.

4.5 Selecting a Smart Scale



Press and hold the X knob for about 0.5 seconds, when the knob light is breathing, follow these steps:

1. Press the key labeled "**SCALE**", the screen will display the currently scale,
2. Turn the X knob to select a scale,
3. Press the X knob to confirm, the screen will display you just selected scale name.

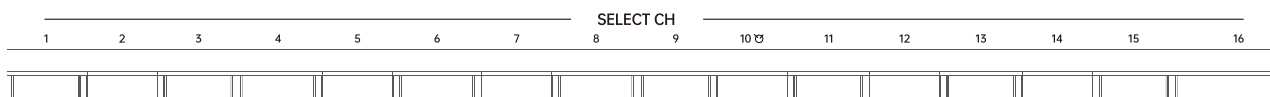
4.6 Changing The Scale Mode



Press and hold the X knob for about 0.5 seconds, when the knob light is breathing, follow these steps:

1. Press the key labeled "**LEARN**", the screen will display the currently scale mode,
2. Turn the X knob to select **EASY** or **LEARN**,
3. Press the X knob to confirm, the screen will display you just selected scale mode.

4.7 Changing The MIDI Channel



1. Press and hold the X knob for about 0.5 seconds, When the knob light is breathing.
 2. Press the corresponding note on the keyboard below the MIDI channels you wish to select. 10 for instance, the screen will displays "10",
- The keyboard will exit the Setting Mode, and the MIDI Channel is changed to channel 10 successfully.

5. Factory Reset

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

1. Disconnect the USB cable or power adapter,
2. Press and hold the "**B1**" and "**B2**" buttons,
3. Plug in the USB cable or power adapter,
4. Release the "**B1**" and "**B2**" buttons when the screen displays "**RESET**".

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

**Press and hold the 2 Octave buttons and plug in the USB cable or power adapter, X Max will enter update mode. Then plug in the USB cable or power adapter and X Max will switch on normally.*

6. DAW Settings

X Max series keyboard have two mode: Performance mode(default) and DAW mode. In DAW mode, X knob, Transport buttons, 8 knobs, 8 buttons and 8 faders can be control of some popular DAWs. You need to change X Max to the corresponding DAW mode, please refer to [3.1 SCENE Button](#).

Script download: [XMax Script](#)

6.1 Ableton Live

1. Download **Ableton Live** script folder.

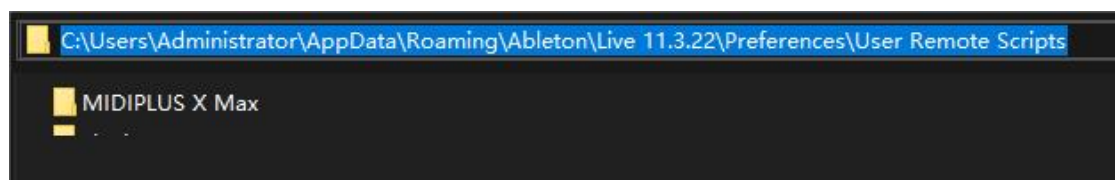
2. Copy the **script folder** to

Windows:

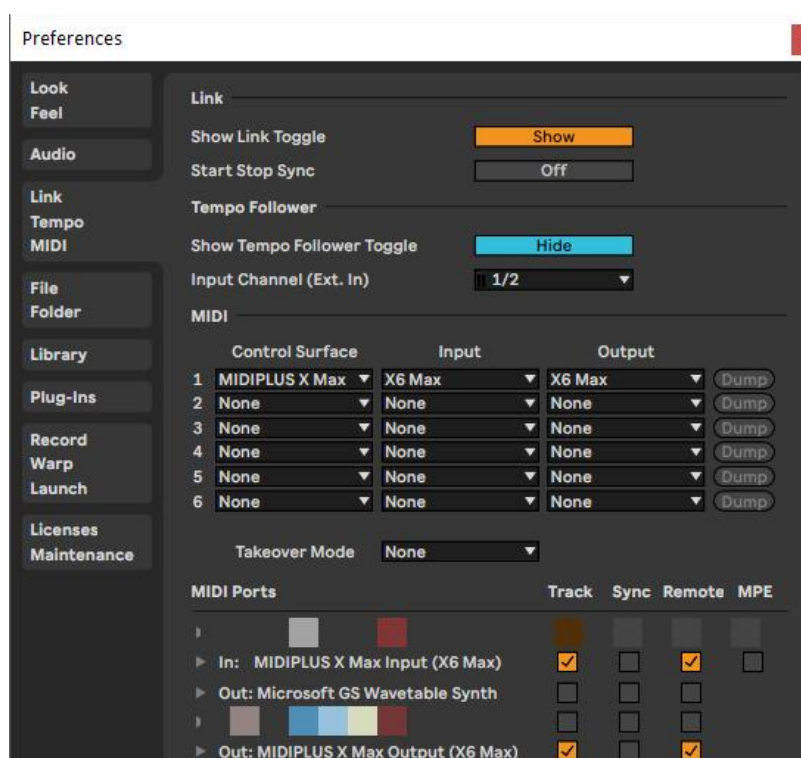
C:\Users\your username\AppData\Roaming\Ableton\Live (version number)\Preferences\User Remote Scripts

MAC:

Macintosh HD\Users\your username\library\preferences\Ableton\Live (版本号)\User Remote Scripts



3. Open **Options >> Preferences** in the menu bar, select the **Link/Tempo/MIDI** tab, select your keyboard model in the **Control screen**, select your MIDI keyboard in **Input/Output**, and set the settings in **MIDI Ports** as shown below:

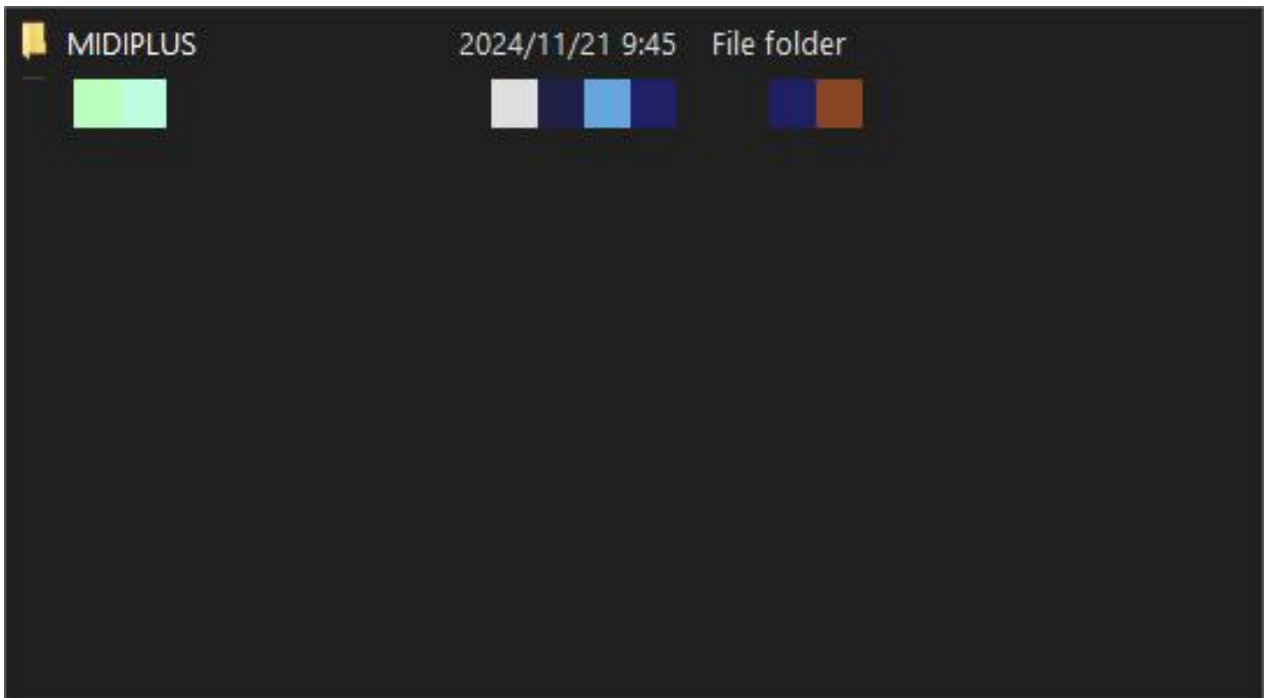


6.2 Steinberg Cubase/Nuendo

1. Download **Cubase** script file.

2. Copy the **script folder** to

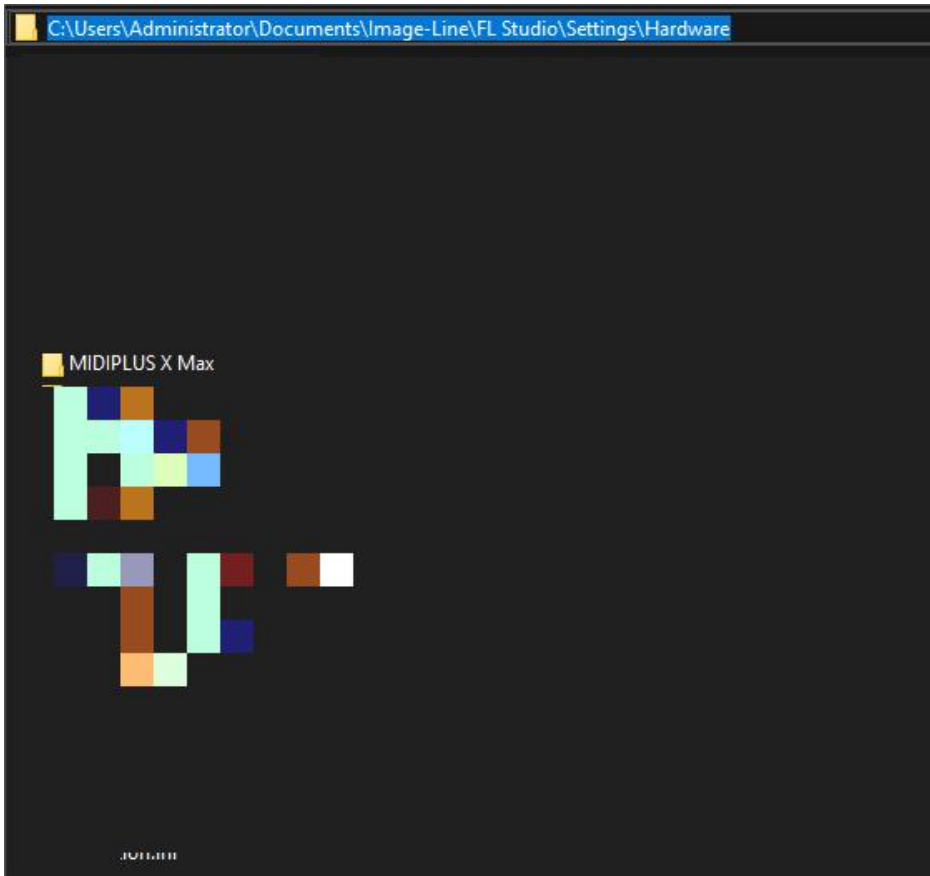
C:\Users\your username)\Documents\Steinberg\Cubase\MIDI Remote\Driver Scripts\Local



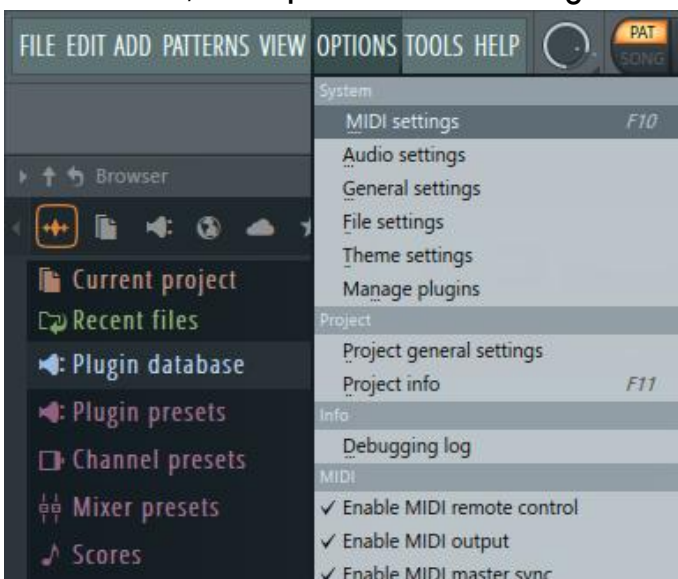
3. Open the software and use it(You need to use **Cubase 11** or higher)

6.3 FL Studio

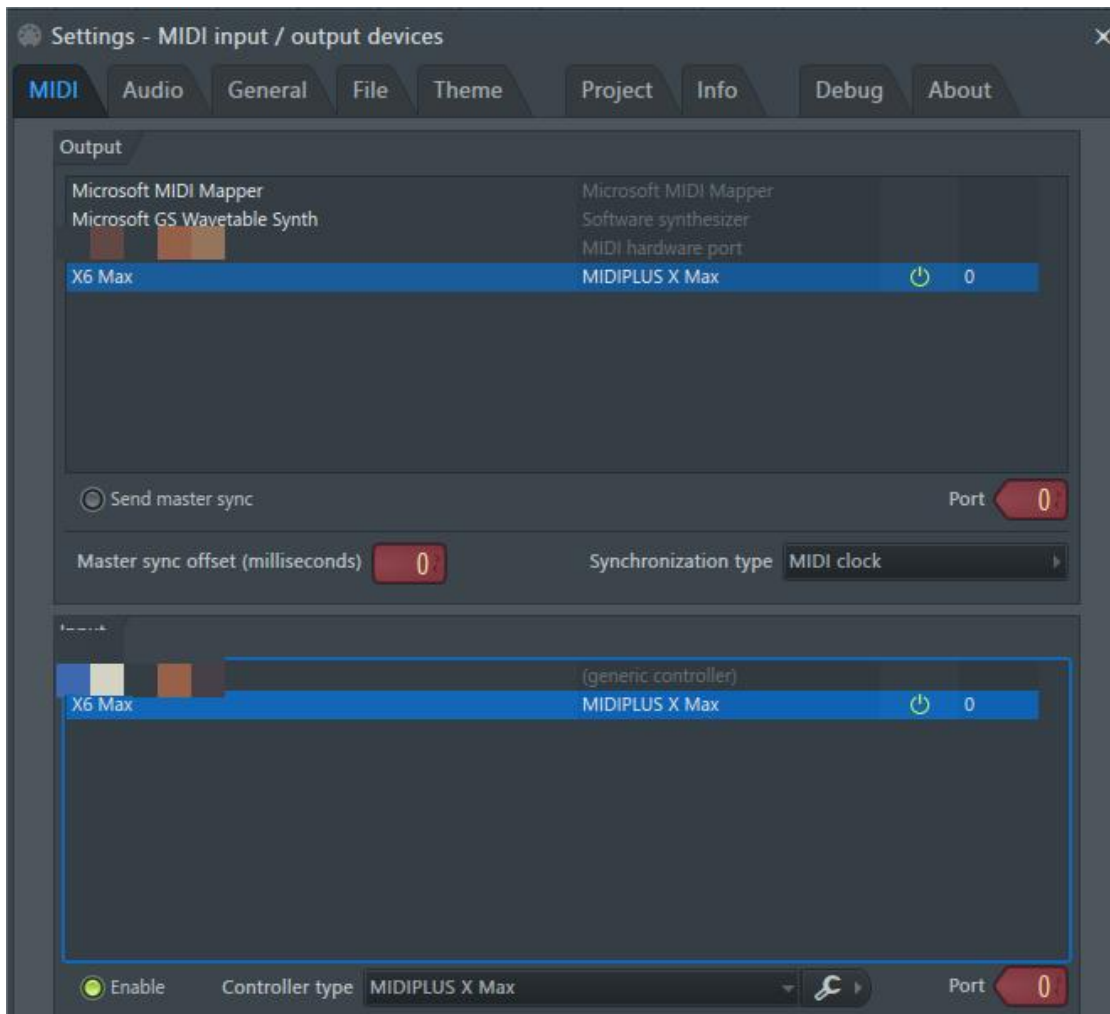
1. Download **FL Studio** script folder.
2. Copy the **script folder** to
C:\Users\Administrator\Documents\Image-Line\FL Studio\Settings\Hardware



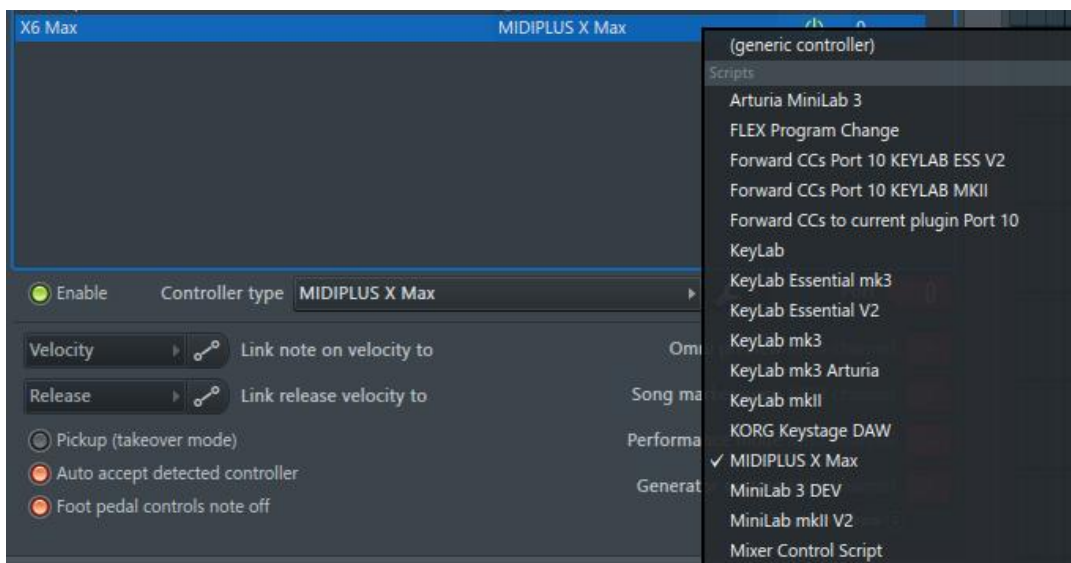
3. In the menu, click **Options >> MIDI Settings**.



3. Select MIDI in the window, and choose your keyboard.

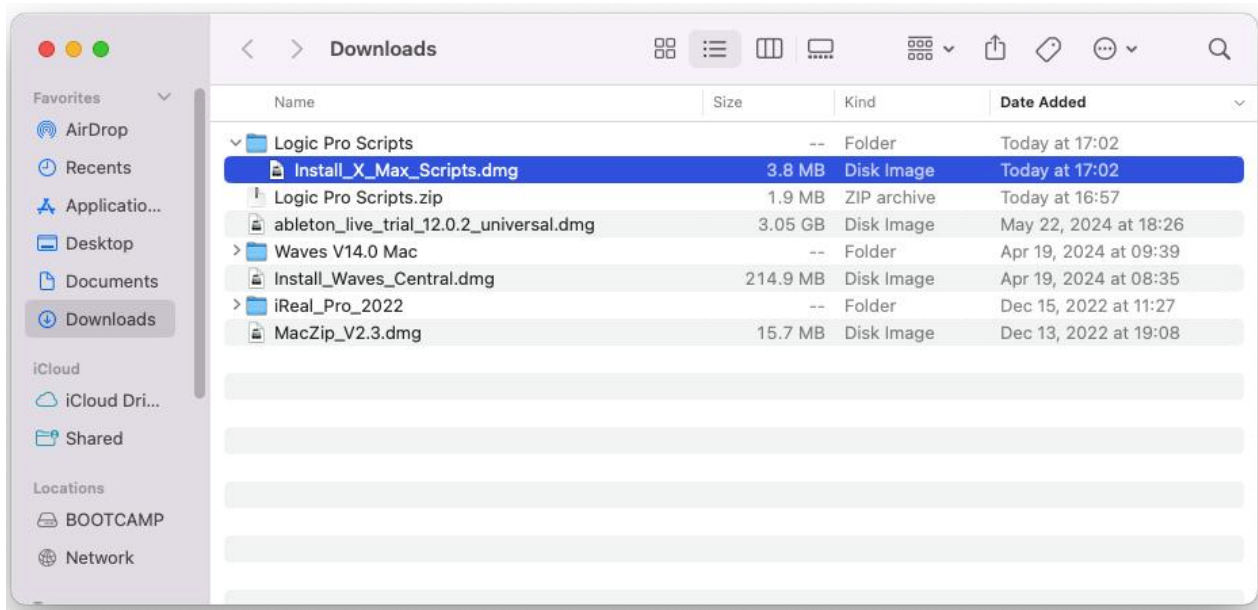


5. In the Controller Type drop down list, select **MIDIPLUS X Max**, and then enable it by clicking "Activate."

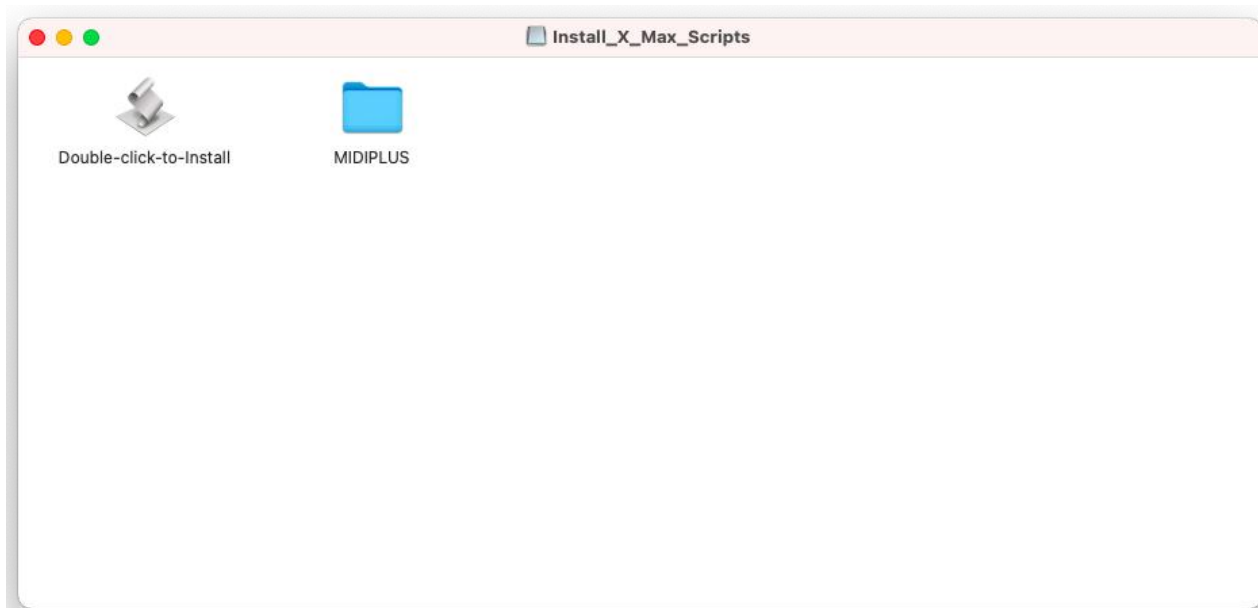


6.4 Logic Pro X

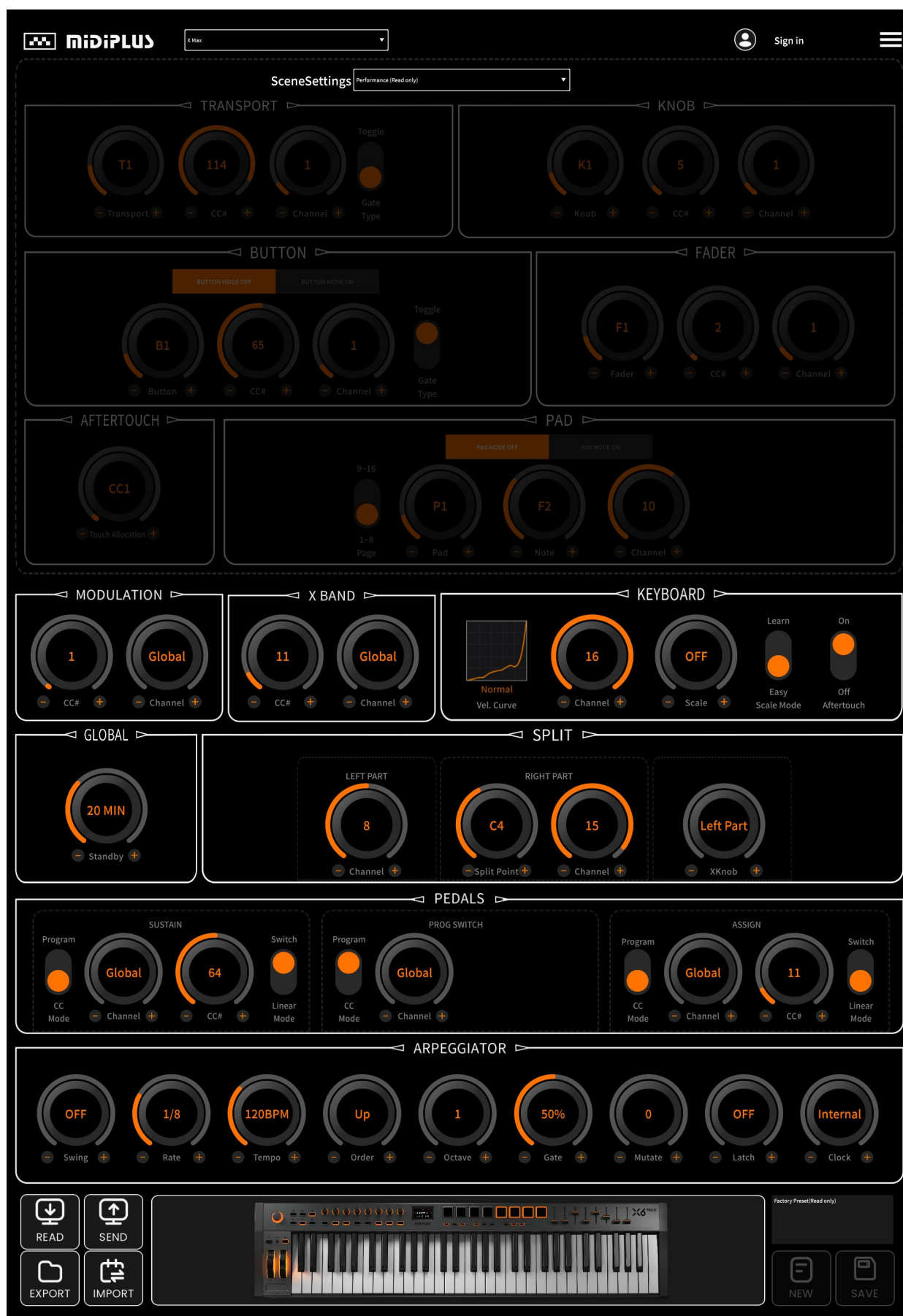
1. Download **Logic Pro X** script folder.
2. Open **Install_X_Max_Scripts.dmg**.



3. Click on **Double-click-to-Install** to install.



7. MIDIPLUS Control Center



1. Scene: You can set the X Max to different scenes, the default Performance and DAW scenes cannot be changed. You can select the Performance or User scene to create your own preset, and these presets can be saved in the X Max.

① Transport: You can configure the CC number, MIDI Channel and button type of the transport buttons.

② Knobs: You can configure the CC number and MIDI Channel of 8 knobs.

③ Buttons: You can select the difference mode to configure. In CC mode(Button mode off), you can configure the CC number, MIDI Channel and button type. In sound mode(Button mode on), you can configure the sound of 8 buttons.

④ Faders: You can configure the CC number and MIDI Channel of 8 faders.

⑤ Aftertouch: You can configure the CC number keyboard aftertouch.

⑥ PADS: You can select the difference mode to configure. In Note mode(PAD mode off), you can configure the note(drum) and MIDI Channel. In CC mode(PAD mode on), you can configure the CC number, MIDI Channel and Pad type.

2. Modulation Joywheels: You can configure the CC number and MIDI Channel of the modulation joywheel.

3. X Band: You can configure the CC number and MIDI Channel of the X Band.

4. Keyboard: You can configure the Vel. Curve, MIDI Channel, Scale, Scale Mode and aftertouch switch of keyboard.

5. Stand by: You can configure the stand by time of X max.

6. Split: You can configure the MIDI Channel, split point and controller allocate of the left or right part.

7. Pedals: You can configure the mode of 3 pedals. In CC mode, you can configure the CC number and MIDI Channel. In sound mode, you can configure the MIDI Channel.

8. Arpeggiator: You can configure the Swing, Rate, Tempo, Order, Octave, Gate, Mutate, Latch and Clock Source of arpeggiator.

Note: please visit [Download Address](#) to download the MIDIPLUS CONTORL CENTER.

8. Appendix

8.1 Specifications

Product Name	X Max
Keyboard	49/61/88 Full-sized, Semi-weighted velocity-sensitive and aftertouch Keys
Maximum Polyphony	64
Screen	TFT
Button	2 Octave buttons, 1 Transpose button, 6 Transport buttons, 8 Parameter knobs and 9 function knobs
Knob	1 Clickable encoder and 8 knobs
PAD	8 velocity-sensitive pads with backlit
Joy Wheel	1 Pitch, 1 Modulation

Touch joywheel	1 Touch joywheel
Connectors	USB port, MIDI IN, MIDI THRU, MIDI OUT, Sustain pedal input, Prog Switch pedal Input, Assign pedal input, 2 Balance output, 1 AUX IN jack and 1 Headphone jack
Dimensions	X4Max: 792.3*209.8*86.4 mm X6Max: 957.5*209.8*86.4 mm X8Max: 1335*209.8*86.4 mm
Net Weight	X4Max: 5.00 kg X6Max: 6.07 kg X8Max: 8.26 kg

8.2 Scales

SCALE	NOTE
OFF	-
China 1	C, D, E, G, A
China 2	C, E ♭, F, G, B ♭
Japan 1	C, D ♭, F, G, B ♭
Japan 2	C, D, E ♭, G, A ♭
Blues 1	C, E ♭, F, F ♯, G, B ♭
Blues 2	C, D, E ♭, E, G, A
BeBop	C, D, E, F, G, A, B ♭, B
Whole Tone	C, D, E, F ♯, G ♯, B ♭
Middle East	C, D ♭, E, F, G, A ♭, B
Dorian	C, D, E ♭, F, G, A, B ♭
Lydian	C, D, E, F ♯, G, A, B
Harmonic Minor	C, D, E ♭, F, G, A ♭, B
Minor	C, D, E ♭, F, G, A ♭, B ♭
Phrygian	C, D ♭, E ♭, F, G, A ♭, B ♭
Hungarian Minor	C, D, E ♭, F ♯, G, A ♭, B
Egypt	C, D ♭, E ♭, E, G, A ♭, B ♭
Vaporwave	C, D, E ♭, G, B ♭
Dangerous	C, D, F ♯, A
Ryukyu Island	C, D, E, G, B
Cowboy	C, D, E ♭, F, G, B ♭

8.3 MIDI CC List

CC No.	Control Function	CC No.	Control Function
0	Bank Select MSB	65	Portamento On/Off
1	Modulation	66	Sostenuto On/Off
2	Breath Controller	67	Soft Pedal On/Off
3	Undefined	68	Legato FootControl
4	Foot Controller	69	Hold 2
5	Portamento Time	70	Sound Variation
6	Data Entry MSB	71	Timbre/Harmonic Intens.
7	Channel Volume	72	Release Time
8	Balance	73	Attack Time
9	Undefined	74	Brightness
10	Pan	75	Decay Time
11	Expression Controller	76	Vibrato Rate
12	Effect Controller 1	77	Vibrato Depth
13	Effect Controller 2	78	Vibrato Delay
14 ~ 15	Undefined	79	Sound Controller 10
16	General Purpose Controller 1	80	General Purpose Controller 5
17	General Purpose Controller 2	81	General Purpose Controller 6
18	General Purpose Controller 3	82	General Purpose Controller 7
19	General Purpose Controller 4	83	General Purpose Controller 8
20 ~ 31	Undefined	84	Portamento Control
32	Bank Select LSB	85 ~ 90	Undefined
33	Modulation LSB	91	Reverb Send Level
34	Breath Controller LSB	92	Tremolo Depth
35	Undefined	93	Chorus Send Level
36	Foot Controller LSB	94	Celestes Depth
37	Portamento LSB	95	Phaser Depth
38	Data Entry LSB	96	Data Increment
39	Channel Volume LSB	97	Data Decrement
40	Balance LSB	98	NRPN LSB
41	Undefined	99	NRPN MSB
42	Pan LSB	100	RPN LSB
43	Expression Controller LSB	101	RPN MSB
44	Effect Controller 1 LSB	102 ~ 119	Undefined
45	Effect Controller 2 LSB	120	All Sound Off
46 ~ 47	Undefined	121	Reset All Controllers
48	General Purpose Controller 1 LSB	122	Local Control On/Off
49	General Purpose Controller 2 LSB	123	All Notes Off
50	General Purpose Controller 3 LSB	124	Omni Mode Off
51	General Purpose Controller 4 LSB	125	Omni Mode On
52 ~ 63	Undefined	126	Mono Mode On
64	Sustain	127	Poly Mode On

8.4 Voice List

Number	Name	Number	Name	Number	Name
Piano		Organ		74	Overdrive Guitar 2
1	Grand Piano	37	Hammond Organ	75	Distortion Guitar
2	Grand Piano 2	38	Hammond Organ 2	76	Guitar Harmonics
3	Grand Piano 3	39	Percussive Organ	77	Guitar Feedback
4	Grand Piano 4	40	Rock Organ	Bass	
E.Piano		41	Church Organ	78	E-Bass
5	Dyno E.Piano	42	Church Organ 2	79	E-Bass 2
6	Dyno E.Piano 2	43	Organ 109	80	Acoustic Bass
7	Elec.Grand 80	44	60's Organ	81	Fingered Bass
8	A200 E.Piano	45	Even Bar	82	Fingered Bass 2
9	A200 E.Piano 2	46	Organ Bass	83	Picked Bass
10	FM E.Piano DX	47	Organ	84	Picked Bass 2
11	FM E.Piano SA	48	Detuned Organ	85	Picked Bass 3
12	FM EP Soft	49	Rotary Organ	86	Fretless Bass
13	FM EP Hard	50	Rotary Organ 2	87	Slap Bass
14	E.Piano	51	Reed Organ	88	Slap Bass 2
15	E.Piano 2	Accordion & Harmonica		89	Slap Bass 3
16	E.Piano 3	52	French Accordion	90	Atmosphere
17	E.Piano 4	53	Harmonica	91	TB303 Bass
18	E.Piano 5	54	Bandoneon	92	Tekno Bass
19	60's E.Piano	Guitar		93	Tekno Bass 2
20	Detuned EP	55	Nylon Guitar	94	Seq 303 Overdrive
21	Detuned EP 2	56	Nylon Guitar 2	95	Seq 303
22	Detuned EP 3	57	Ukulele	96	Reso SH Bass
23	Harpsichord	58	Steel Guitar	97	Modular Bass 2
24	Harpsichord 2	59	Steel Guitar 2	98	Seq Bass
25	Clavinet	60	12 String Guitar	99	Analog Bass
Percussion		61	12 String Guitar 2	100	Rubber Bass
26	Celesta	62	Santur	101	SH101 Bass
27	Glockenspiel	63	Santur 2	102	SH101 Bass 2
28	Music Box	64	Mandolin	103	Synth Bass
29	Music Box 2	65	Jazz Guitar	104	Synth Bass 2
30	Vibraphone	66	Hawaiian Guitar	105	Synth Bass 3
31	Vibraphone 2	67	Clean Guitar	106	Synth Bass 4
32	Marimba	68	Clean Guitar 2	107	Synth Bass 5
33	Marimba 2	69	Chorus Guitar	108	Synth Bass 6
34	Xylophone	70	Chorus Guitar 2	109	Synth Bass 7
35	Tubular Bell	71	Muted E.Guitar	110	Smooth Bass
36	Tinkle Bell	72	Funk Guitar	Strings & Choir	
		73	Overdrive Guitar	111	Violin

112	Viola	148	Soprano Sax 2	185	Soundtrack
113	Cello	149	Alto Sax	186	Warm Pad
114	Contrabass	150	Alto Sax 2	187	Polysyn.Pad
115	Tremolo Strings	151	Tenor Sax	188	Space Vox Pad
116	Pizzico Strings	152	Breathy Tenor	189	Halo Pad
117	Harp	153	Baritone Sax	190	Sweep Pad
118	Classic String + Pad	154	Baritone Sax 2	191	Brightness
119	String Ensemble	155	English Horn	192	Goblin
120	Classic Poly Synth	156	English Horn 2	193	Echo Drops
121	Orchestra	157	Bassoon	194	Echo Pan
122	Slow String Ensemble	158	Clarinet	195	Star Theme
123	OB String	159	Bass Clarinet	World	
124	Synth Strings	160	Oboe	196	Sitar
125	Synth Strings 2	161	Piccolo	197	Banjo
126	Synth Strings 3	162	Flute	198	Shamisen
127	Choir Aahs	163	Recorder	199	Koto
128	Rotary String	164	Pan Flute	200	Taisho Koto
129	Voice Oohs	165	Bottle Blow	201	Kalimba
130	Synth Voice	166	Whistle	202	Bagpipe
Brass		167	Ocarina	203	Qudi
131	Trumpet	Synth & Pad		204	Bangdi
132	Trumpet 2	168	OB Lead	205	Bawu
133	Flugel Horn	169	Saw Lead	206	Hulusi
134	Bright Trumpet	170	Square Lead	207	DongXiao
135	Muted Trumpet	171	Chiffer Lead	208	Erhu
136	Muted Trumpet 2	172	Square Wave	209	Matouqin
137	Trombone	173	Sine Wave	210	Guzheng
138	Tuba	174	Saw Wave	211	Suona
139	French Horns	175	Solo Syn.Vox	212	Xun
140	Brass Section	176	5th Saw Wave	Drum Kit	
141	Brass Section 2	177	Bass & Lead	1	Standard Kit
142	M12 Brass	178	Soft Pad	2	Room Kit
143	Synth Brass	179	OBX Softpad	3	Power Kit
144	Synth Brass 2	180	Hook	4	Electro Kit
145	Synth Brass 3	181	K500 Bell	5	TR808 Kit
146	Synth Brass 4	182	Fantasia Pad	6	Jazz Kit
Woodwind & Others		183	Syn.Calliope	7	Brush Kit
147	Soprano Sax	184	Bow.Glass Pad	8	Orchestra Kit

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