M-AUDIO®

HAMMER88

Preset Editor

User Guide

English

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Introduction

Thank you for purchasing the Hammer 88. At M-Audio, we know how serious music is to you. That's why we design our equipment with only one thing in mind—to make your performance the best it can be.

Support

For the latest information about this product (documentation, technical specifications, system requirements, compatibility information, etc.) and product registration, visit **m-audio.com**.

For additional product support, visit **m-audio.com/support**.

Installation

1. Double-click the **.exe** (Windows®) or **.pkg** (macOS®) installer file you downloaded.
2. Follow the on-screen instructions.

    After the installation has completed, open the **Hammer 88 Preset Editor** by doing the following:

    Windows: Click the **Start Menu**, click **All Programs**, click the **M-Audio** folder, and then click **Hammer 88 Preset Editor**.

    macOS: Double-click **Hammer 88 Preset Editor** in **Applications**.

Getting Started

To open the Hammer 88 Editor:

1. **Optional**: Connect your Hammer 88 keyboard to your computer using a standard USB cable. (If you are connecting your keyboard to a USB hub, make sure it is a powered hub.) You can still use the editor without connecting a Hammer 88, but you will not be able to send presets to it or retrieve presets from it.
2. Open the Hammer 88 Editor. The window will show a graphical representation of your Hammer 88 with all of its editable controls.

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Operation

Managing Your Presets

About Presets

A preset is a preset file (**.h88**) containing all of the MIDI control assignments you make in this editor. Using presets lets you maintain several different control configurations to use in different situations. For instance, you may use different presets with different kinds of software, or you may use some presets for production and others for performance.

Your Hammer 88 keyboard can store one preset at a time, though you can store additional presets on your computer to load onto your Hammer 88 keyboard using this editor.

This chapter explains how to load presets into the editor (*Loading & Retrieving Presets*), save presets onto your computer (*Saving Presets*), and send presets to your connected Hammer 88 keyboard (*Sending Presets*).

Loading & Retrieving Presets

To edit a preset, you first have to load it into the Hammer 88 Editor. You can **load** a preset from your computer or **retrieve** a preset from your connected Hammer 88 keyboard's internal memory (RAM).

To load a preset from your computer, do one of the following:

- Click **File** and then click **Load Preset**.
- Press **Ctrl**+**O** (Windows) or **Control**+**O** (macOS).

After that, locate the desired preset file (**.h88**), and click **Open**.

To retrieve a preset from your connected Hammer 88, click **File** and then click **Retrieve Preset**. Alternatively, press **Ctrl**+**Shift**+**R** (Windows) or **Control**+**Shift**+**R** (macOS).

Important: Editing this preset will not affect the preset stored on your Hammer 88. See *Sending Presets* below to learn how to send the edited preset to your Hammer 88.

Saving Presets

Saving a preset on your computer lets you edit it or send it to your Hammer 88 in the future. All MIDI assignments that you see in the editor will be saved in the preset.

To save the preset, do one of the following:

- Click **File** and then click **Save Preset**.
- Press **Ctrl**+**S** (Windows) or **Control**+**S** (macOS).

If this is the first time you are saving the preset, select the desired location, enter a file name, and click **Save**. The preset will be saved as an **.h88** file.

Sending Presets
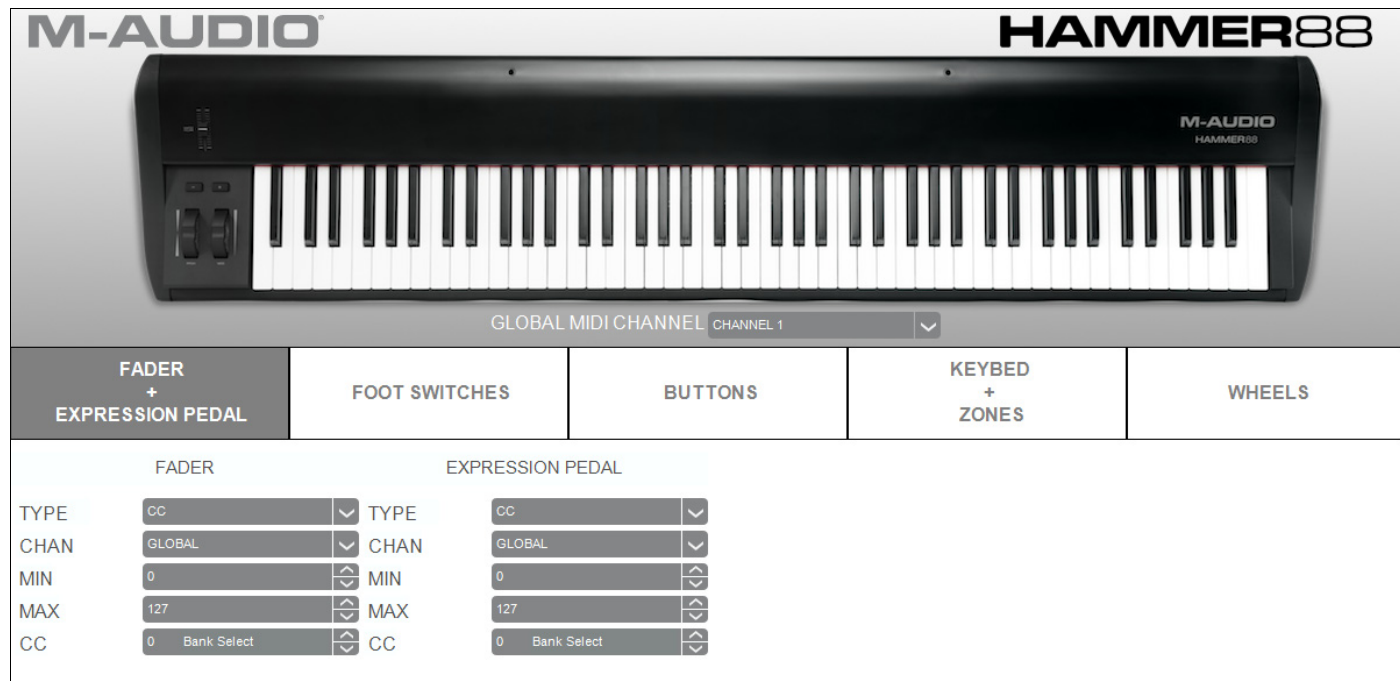
Sending a preset to your connected Hammer 88 lets you transfer the preset from the editor to your Hammer 88 keyboard's internal memory (RAM). All MIDI assignments that you see in the editor will be sent to your Hammer 88.

To send a preset to your connected Hammer 88:

1. Click **File** and then click **Send Preset**. Alternatively, press **Ctrl**+**Shift**+**S** (Windows) or **Control**+**Shift**+**S** (macOS).
2. Click **Send** to confirm your choice, or click the **X** in the upper-right corner to close the window and cancel the operation. (Sending the preset will overwrite the preset on your Hammer 88.)

Editing the Controls

Overview

The upper part of the window is a graphical representation of your Hammer 88 plus a menu that determines the "global" MIDI channel. When a type of control is not set use to a specific MIDI channel (e.g., Channel 1, Channel 2, etc.), then it will use the global MIDI channel.

To set the global MIDI channel, click the **Global MIDI Channel** menu, and select one of **Channels 1–16**.

The lower part of the window is the **control panel**, which shows the current parameters of the selected Hammer 88 control. The button for the currently selected type of control will be highlighted.

To show and edit the parameters for a control on your Hammer 88, click one of the five buttons in the middle of the window.

Click one of the types of controls to jump to that section of this user guide:

Fader + Expression Pedal

Foot Switches

Buttons

Keybed + Zones

Wheels

To use a drop-down menu, click it to reveal the menu options, and then click an option to select it.

TYPE	PROGRAM ⌄
	OCTAVE
	PROGRAM
	PROGRAM LATCH
	PROGRAM INC/DEC
	CC ABSOLUTE
	CC LATCH
	CC INC/DEC
	MMC
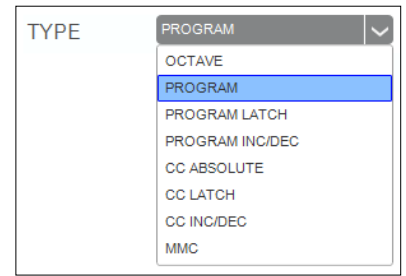
To use a value field, do any of the following:

PROGRAM	127 ⌃⌄

- Click it and enter a number (**0–127**).

- Click the up (∧) or down (∨) arrows next to the field.

- Click it and then use your computer's up (✦) or down (✦) keys.

To use a checkbox, click it to check (enable) or uncheck (disable) it. Enabling or disabling checkboxes may reveal or hide additional parameters that you can edit.

ZONE 1 ✓	ZONE 1 ☐

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Fader + Expression Pedal

Click **Fader + Expression Pedal** to set the MIDI assignments for the **fader** and **expression pedal** on your Hammer 88.

Click the **Type** menu and select one of the following options. The parameters below will depend on your selection.

- **Aftertouch**: The fader or pedal will send aftertouch messages within the specified range when you move it. See *Aftertouch* to learn about the available settings.

- **CC**: The fader or pedal will send values within the specified range for a specific controller change (CC) message when you move it. See *CC* to learn about the available settings.

- **Pitch Bend**: The fader or pedal will send pitch-bend information within the specified range when you move it. See *Pitch Bend* to learn about the available settings.

Aftertouch

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	FADER			EXPRESSION PEDAL	
TYPE	AFTERTOUCH	⌄	TYPE	AFTERTOUCH	⌄
CHAN	GLOBAL	⌄	CHAN	GLOBAL	⌄
MIN	0	⌃⌄	MIN	0	⌃⌄
MAX	127	⌃⌄	MAX	127	⌃⌄

When set to **Aftertouch**, the fader or pedal will send aftertouch messages within the specified range when you move it. These are the available parameters:

Chan: The fader or pedal will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Min: This will be the lowest value that the fader or pedal can send (**0–127**).

Max: This will be the highest value that the fader or pedal can send (**0–127**).

CC

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	FADER		EXPRESSION PEDAL
TYPE	CC	TYPE	CC
CHAN	GLOBAL	CHAN	GLOBAL
MIN	0	MIN	0
MAX	127	MAX	127
CC	0 Bank Select	CC	0 Bank Select

When set to **CC**, the fader or pedal will send values within the specified range for a specific controller change (CC) message when you move it. These are the available parameters:

Chan: The fader or pedal will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Min: This will be the lowest value that the fader or pedal can send (**0–127**).

Max: This will be the highest value that the fader or pedal can send (**0–127**).

CC: The fader or pedal will send its MIDI messages using this CC number (**0–127**).

Pitch Bend

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	FADER		EXPRESSION PEDAL
TYPE	PITCH BEND	TYPE	PITCH BEND
CHAN	GLOBAL	CHAN	GLOBAL
MIN	0	MIN	0
MAX	127	MAX	127

When set to **Pitch Bend**, the fader or pedal will send pitch-bend information within the specified range when you move it. These are the available parameters:

Chan: The fader or pedal will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Min: This will be the lowest value that the fader or pedal can send (**0–127**).

Max: This will be the highest value that the fader or pedal can send (**0–127**).

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Click **Foot Switches** to set the MIDI assignments for the **sustain pedal** and Footswitch 2 (**FS2**) on your Hammer 88.

Click the **Type** menu and select one of the following options. The parameters below will depend on your selection.

- **Note**: The sustain pedal or Footswitch 2 will send a MIDI note message when you press it and stop the note when you release it ("momentary" behavior). See *Note* to learn about the available settings.

- **Note Latch**: The sustain pedal or Footswitch 2 will send a MIDI note message when you press it and stop the note when you press it a second time ("latching" or "toggle" behavior). See *Note Latch* to learn about the available settings.

- **Program**: The sustain pedal or Footswitch 2 will send a combined program number, Bank MSB, and Bank LSB number. This can be useful for selecting a preset from a specific bank of a virtual instrument or synthesizer (the instrument or synthesizer must support these messages). See *Program* to learn about the available settings.

- **Program Latch**: The sustain pedal or Footswitch 2 will send a program number when you press it and send a different program number when you press it a second time. This can be useful for switching between two presets on a virtual instrument or synthesizer (the instrument or synthesizer must support these messages). See *Program Latch* to learn about the available settings.

- **Program Inc**: The sustain pedal or Footswitch 2 will increment the program number by **1** each time you press it. After it reaches its highest program, it will "wrap around" and start again at its lowest program. In other words, pressing the sustain pedal or Footswitch 2 will ascend (and cycle) through its entire range of programs by increments of 1. See *Program Inc* to learn about the available settings.

- **Program Dec**: The sustain pedal or Footswitch 2 will decrement the program number by **1** each time you press it. After it reaches its lowest program, it will "wrap around" and start again at its highest program. In other words, pressing the sustain pedal or Footswitch 2 will descend (and cycle) through its entire range of programs by increments of 1. See *Program Dec* to learn about the available settings.

- **CC Absolute**: The sustain pedal or Footswitch 2 will send a CC message with one value when you press it and another value when you release it. The values will alternate with each press. See *CC Absolute* to learn about the available settings.

- **CC Latch**: The sustain pedal or Footswitch 2 will send a CC message with one value when you press it and send a different value when you press it a second time ("latching" or "toggle" behavior). See *CC Latch* to learn about the available settings.

- **CC Inc**: The sustain pedal or Footswitch 2 will increment the CC number by **1** each time you press it. After it reaches its highest CC value, it will "wrap around" and start again at its lowest number. In other words, pressing the sustain pedal or Footswitch 2 will ascend (and cycle) through its entire range by increments of 1. See *CC Inc* to learn about the available settings.

- **CC Dec**: The sustain pedal or Footswitch 2 will decrement the CC number by **1** each time you press it. After it reaches its lowest CC value, it will "wrap around" and start again at its highest number. In other words, pressing the sustain pedal or Footswitch 2 will descend (and cycle) through its entire range by increments of 1. See *CC Dec* to learn about the available settings.

- **MMC**: The sustain pedal or Footswitch 2 will send a MMC (MIDI Machine Control) message. MMC is a transport control protocol that is used to remotely control some recording hardware and DAWs. See *MMC* to learn about the available settings.

Note

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	SUSTAIN		FS2
TYPE	NOTE	TYPE	NOTE
CHAN	GLOBAL	CHAN	GLOBAL
NOTE	0 C (-1)	NOTE	0 C (-1)
ON VEL:	127	ON VEL:	127
OFF VEL:	0	OFF VEL:	0

When set to **Note**, the sustain pedal or Footswitch 2 will send a MIDI note message when you press it and stop the note when you release it ("momentary" behavior). These are the available parameters:

> **Chan**: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

> **Note**: The sustain pedal or Footswitch 2 will send this MIDI note number when you press it.

> **On Vel**: The sustain pedal or Footswitch 2 will send the MIDI note number with this velocity when you press it to turn it on.

> **Off Vel**: The sustain pedal or Footswitch 2 will send the MIDI note number with this velocity when you release it to turn it off. This value will usually be **0** (to turn the note off).

Note Latch

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	SUSTAIN		FS2
TYPE	NOTE LATCH	TYPE	NOTE LATCH
CHAN	GLOBAL	CHAN	GLOBAL
NOTE	0 C (-1)	NOTE	0 C (-1)
ON VEL:	127	ON VEL:	127
OFF VEL:	0	OFF VEL:	0

When set to **Note Latch**, the sustain pedal or Footswitch 2 will send a MIDI note message when you press it and stop the note when you press it a second time ("latching" or "toggle" behavior). These are the available parameters:

> **Chan**: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

> **Note**: The sustain pedal or Footswitch 2 will send this MIDI note number when you press it.

> **On Vel**: The sustain pedal or Footswitch 2 will send the MIDI note number with this velocity when you press it to turn it on.

> **Off Vel**: The sustain pedal or Footswitch 2 will send the MIDI note number with this velocity when you press it to turn it off. This value will usually be **0** (to turn the note off).

Program

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

SUSTAIN		FS2	
TYPE	PROGRAM ⌄	TYPE	PROGRAM ⌄
CHAN	GLOBAL ⌄	CHAN	GLOBAL ⌄
PROGRAM	1 ⌃⌄	PROGRAM	1 ⌃⌄
MSB	127 ⌃⌄	MSB	127 ⌃⌄
LSB	1 ⌃⌄	LSB	1 ⌃⌄

When set to **Program**, the sustain pedal or Footswitch 2 will send a combined program number, Bank MSB, and Bank LSB number. This can be useful for selecting a preset from a specific bank of a virtual instrument or synthesizer (the instrument or synthesizer must support these messages). These are the available parameters:

Chan: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Program: The sustain pedal or Footswitch 2 will send this program number when you press it.

MSB: The sustain pedal or Footswitch 2 will send this Bank MSB (Most Significant Byte) number when you press it.

LSB: The sustain pedal or Footswitch 2 will send this Bank LSB (Least Significant Byte) number when you press it.

Program Latch

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

SUSTAIN		FS2	
TYPE	PROGRAM LATCH ⌄	TYPE	PROGRAM LATCH ⌄
CHAN	GLOBAL ⌄	CHAN	GLOBAL ⌄
PROGRAM 1	1 ⌃⌄	PROGRAM 1	1 ⌃⌄
PROGRAM 2	127 ⌃⌄	PROGRAM 2	127 ⌃⌄

When set to **Program Latch**, the sustain pedal or Footswitch 2 will send a program number when you press it and send a different program number when you press it a second time ("latching" or "toggle" behavior). This can be useful for switching between two presets on a virtual instrument or synthesizer (the instrument or synthesizer must support these messages). These are the available parameters:

Chan: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Program 1: The sustain pedal or Footswitch 2 will send this program number when you press it the first time.

Program 2: The sustain pedal or Footswitch 2 will send this program number when you press it the second time.

Program Inc

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS
SUSTAIN		FS2		

TYPE	PROGRAM INC	TYPE	PROGRAM INC	
CHAN	GLOBAL	CHAN	GLOBAL	
MIN	1	MIN	1	
MAX	127	MAX	127	

When set to **Program Inc**, the sustain pedal or Footswitch 2 will increment the program number by **1** each time you press it. After it reaches its highest program, it will "wrap around" and start again at its lowest program. In other words, pressing the sustain pedal or Footswitch 2 will ascend (and cycle) through its entire range of programs by increments of 1. These are the available parameters:

Chan: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Min: This will be the lowest value that the sustain pedal or Footswitch 2 can send (**0–127**).

Max: This will be the highest value that the sustain pedal or Footswitch 2 can send (**0–127**).

Program Dec

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS
SUSTAIN		FS2		

TYPE	PROGRAM INC	TYPE	PROGRAM INC	
CHAN	GLOBAL	CHAN	GLOBAL	
MIN	1	MIN	1	
MAX	127	MAX	127	

When set to **Program Dec**, the sustain pedal or Footswitch 2 will decrement the program number by **1** each time you press it. After it reaches its lowest program, it will "wrap around" and start again at its highest program. In other words, pressing the sustain pedal or Footswitch 2 will descend (and cycle) through its entire range of programs by increments of 1. These are the available parameters:

Chan: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Min: This will be the lowest value that the sustain pedal or Footswitch 2 can send (**0–127**).

Max: This will be the highest value that the sustain pedal or Footswitch 2 can send (**0–127**).

CC Absolute

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	SUSTAIN		FS2	
TYPE	CC ABSOLUTE	TYPE	CC ABSOLUTE	
CHAN	GLOBAL	CHAN	GLOBAL	
CC	0 Bank Select	CC	0 Bank Select	
MIN	0	MIN	0	
MAX	127	MAX	127	

When set to **CC Absolute**, the sustain pedal or Footswitch 2 will send a CC message with one value when you press it and another value when you release it. These are the available parameters:

Chan: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

CC: The sustain pedal or Footswitch 2 will send its MIDI messages using this CC number.

Min: The sustain pedal or Footswitch 2 will send this value when you release it.

Max: The sustain pedal or Footswitch 2 will send this value when you press it.

CC Latch

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	SUSTAIN		FS2	
TYPE	CC LATCH	TYPE	CC LATCH	
CHAN	GLOBAL	CHAN	GLOBAL	
CC	0 Bank Select	CC	0 Bank Select	
MIN	0	MIN	0	
MAX	127	MAX	127	

When set to **CC Latch**, the sustain pedal or Footswitch 2 will send a CC message with one value when you press it and send a different value when you press it a second time ("latching" or "toggle" behavior). These are the available parameters:

Chan: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

CC: The sustain pedal or Footswitch 2 will send its MIDI messages using this CC number.

Min: The sustain pedal or Footswitch 2 will send this value when you release it.

Max: The sustain pedal or Footswitch 2 will send this value when you press it.

CC Inc

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	SUSTAIN		FS2	
TYPE	CC INC	TYPE	CC INC	
CHAN	GLOBAL	CHAN	GLOBAL	
CC	0 Bank Select	CC	0 Bank Select	
MIN	0	MIN	0	
MAX	127	MAX	127	

When set to **CC Inc**, the sustain pedal or Footswitch 2 will increment the CC number by **1** each time you press it. After it reaches its highest CC number, it will "wrap around" and start again at its lowest number. In other words, pressing the sustain pedal or Footswitch 2 will ascend (and cycle) through its entire range by increments of 1. These are the available parameters:

Chan: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

CC: The sustain pedal or Footswitch 2 will send its MIDI messages using this CC number.

Min: This will be the lowest value that the sustain pedal or Footswitch 2 can send (**0–127**).

Max: This will be the highest value that the sustain pedal or Footswitch 2 can send (**0–127**).

CC Dec

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	SUSTAIN		FS2	
TYPE	CC DEC	TYPE	CC DEC	
CHAN	GLOBAL	CHAN	GLOBAL	
CC	0 Bank Select	CC	0 Bank Select	
MIN	0	MIN	0	
MAX	127	MAX	127	

When set to **CC Dec**, the sustain pedal or Footswitch 2 will decrement the CC number by **1** each time you press it. After it reaches its lowest CC number, it will "wrap around" and start again at its highest number. In other words, pressing the sustain pedal or Footswitch 2 will descend (and cycle) through its entire range by increments of 1. These are the available parameters:

Chan: The sustain pedal or Footswitch 2 will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

CC: The sustain pedal or Footswitch 2 will send its MIDI messages using this CC number.

Min: This will be the lowest value that the sustain pedal or Footswitch 2 can send (**0–127**).

Max: This will be the highest value that the sustain pedal or Footswitch 2 can send (**0–127**).

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MMC

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

SUSTAIN		FS2	
TYPE	MMC	TYPE	MMC
DEVICE ID	0	DEVICE ID	0
MMC	STOP	MMC	STOP

When set to **MMC**, the sustain pedal or Footswitch 2 will send a MMC (MIDI Machine Control) message. MMC is a transport control protocol that is used to remotely control some recording hardware and DAWs. These are the available parameters:

Device ID: The sustain pedal or Footswitch 2 will send its messages over this channel: **0–127**.

Note: The most commonly used Device IDs are **1–16**.

Setting the Device ID to **127** will send messages to all devices on any channel.

MMC: The sustain pedal or Footswitch 2 will send this MMC message when you press it: **Stop** or **Play**.

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Buttons

Click **Buttons** to set the MIDI assignments for the **–** and **+** buttons on your Hammer 88.

Click the **Type** menu and select one of the following options. The parameters below will depend on your selection.

- **Octave**: The **–** and **+** buttons will shift the octave or transposition of the keybed down or up (respectively). See *Octave* to learn about the available settings.

- **Program**: The **–** and **+** buttons will each send a combined program number, Bank MSB, and Bank LSB number. This can be useful for selecting a preset from a specific bank of a virtual instrument or synthesizer (the instrument or synthesizer must support these messages). See *Program* to learn about the available settings.

- **Program Latch**: The **–** and **+** buttons will send a program number when you press it and send a different program number when you press it a second time. This can be useful for switching between two presets on a virtual instrument or synthesizer (the instrument or synthesizer must support these messages). See *Program Latch* to learn about the available settings.

- **Program Inc/Dec**: The **–** and **+** buttons will increment and decrement the program number (respectively) by **1** each time you press them. After it reaches its lowest or highest program, it will "wrap around" and start again at its highest or lowest program (respectively). In other words, pressing the **–** and **+** buttons will cycle through its entire range of programs by increments of 1. See *Program Inc/Dec* to learn about the available settings.

- **CC Absolute**: The **–** and **+** buttons will send a CC message with one value when you press it and another value when you release it. See *CC Absolute* to learn about the available settings.

- **CC Latch**: The **–** and **+** buttons will send a CC message with one value when you press it and send a different value when you press it a second time ("latching" or "toggle" behavior). See *CC Latch* to learn about the available settings.

- **CC Inc/Dec**: The **–** and **+** buttons will increment and decrement the CC number (respectively) by **1** each time you press them. After it reaches its lowest or highest value, it will "wrap around" and start again at its highest or lowest value (respectively). In other words, pressing the **–** and **+** buttons cycle through its entire range by increments of 1. See *CC Inc/Dec* to learn about the available settings.

- **MMC**: The **–** and **+** buttons will send a MMC (MIDI Machine Control) message. MMC is a transport control protocol that is used to remotely control some recording hardware and DAWs. See *MMC* to learn about the available settings.

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Octave

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS
		TYPE OCTAVE ⌄		

When set to **Octave**, the **–** and **+** buttons will shift the octave of the keybed down or up (respectively) or will transpose the keys up or down a semitone.

Each button will light up **dim red** to indicate a shift of one octave in either direction or **bright red** for a shift of two octaves in either direction.

See the chart below to learn how the buttons indicate each transposition.

There are no editable parameters for this type.

Semitones	Color	Brightness
+1	Green	Dim 1
+2	Green	Dim 2
+3	Green	Fully lit
+4	Blue	Dim 1
+5	Blue	Dim 2
+6	Blue	Fully lit
+7	White	Dim 1
+8	White	Dim 2
+9	White	Fully lit
+10	Yellow	Dim 1
+11	Yellow	Dim 2
+12	Yellow	Fully lit

Semitones	Color	Brightness
-1	Green	Dim 1
-2	Green	Dim 2
-3	Green	Fully lit
-4	Blue	Dim 1
-5	Blue	Dim 2
-6	Blue	Fully lit
-7	White	Dim 1
-8	White	Dim 2
-9	White	Fully lit
-10	Yellow	Dim 1
-11	Yellow	Dim 2
-12	Yellow	Fully lit

Program

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

		TYPE	PROGRAM ▾			
	- BUTTON				**+ BUTTON**	
CHAN	GLOBAL ▾			CHAN	GLOBAL ▾	
PROGRAM	1			PROGRAM	127	
MSB	1			MSB	127	
LSB	127			LSB	1	

When set to **Program**, the **–** and **+** buttons will each send a combined program number, Bank MSB, and Bank LSB number. This can be useful for selecting a preset from a specific bank of a virtual instrument or synthesizer (the instrument or synthesizer must support these messages).

The buttons will light **white** temporarily when pressed.

These are the available parameters:

Chan: The **–** and **+** buttons will send their messages over these channels. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Program: The **–** and **+** buttons will send these program numbers when you press them.

MSB: The **–** and **+** buttons will send these Bank MSB (Most Significant Byte) numbers when you press them.

LSB: The **–** and **+** buttons will send these Bank LSB (Least Significant Byte) numbers when you press them.

Program Latch

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

		TYPE	PROGRAM LATCH ▾			
	- BUTTON				**+ BUTTON**	
CHAN	GLOBAL ▾			CHAN	GLOBAL ▾	
PROGRAM 1	1			PROGRAM 1	127	
PROGRAM 2	127			PROGRAM 2	127	

When set to **Program Latch**, the **–** and **+** buttons will each send a program number when you press it and send a different program number when you press it a second time ("latching" or "toggle" behavior). This can be useful for switching between four presets on a virtual instrument or synthesizer (the instrument or synthesizer must support these messages).

The buttons will light up in the following way:

When the **–** button's first program is selected, the **–** button will be **white** and **dimly lit**.

When the **–** button's second program is selected, the **–** button will be **white** and **brightly lit**.

When the **+** button's first program is selected, the **+** button will be **white** and **dimly lit**.

When the **+** button's second program is selected, the **+** button will be **white** and **brightly lit**.

These are the available parameters:

Chan: The **–** and **+** buttons will send their messages over these channels. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Program 1: The **–** and **+** buttons will send these program numbers when you press them the first time.

Program 2: The **–** and **+** buttons will send these program numbers when you press them the second time.

Program Inc/Dec

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS
		TYPE PROGRAM INC/DEC ⌄		
			- + BUTTONS	
			CHAN GLOBAL ⌄	
			MIN 0	
			MAX 127	

When set to **Program Inc/Dec**, the **–** and **+** buttons will increment and decrement the program number (respectively) by **1** each time you press them. After it reaches its lowest or highest program, it will "wrap around" and start again at its highest or lowest program (respectively). In other words, pressing the **–** and **+** buttons will cycle through its entire range of programs by increments of 1.

Each of the buttons will light up **white** briefly when pressed.

These are the available parameters:

Chan: The **–** and **+** buttons will send their messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Min: This will be the lowest value that the **–** and **+** buttons can send (**0–127**).

Max: This will be the highest value that the **–** and **+** buttons can send (**0–127**).

CC Absolute

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS
		TYPE CC ABSOLUTE ⌄		
	- BUTTON		+ BUTTON	
	CHAN GLOBAL ⌄		CHAN GLOBAL ⌄	
	CC 0 Bank Select		CC 0 Bank Select	
	MIN 0		MIN 0	
	MAX 127		MAX 127	

When set to **CC Absolute**, the **–** and **+** buttons will each send a CC message with one value when you press it and another value when you release it.

Each button will light up **blue** when pressed.

These are the available parameters:

Chan: The **–** and **+** buttons will send their messages over these channels. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

CC: The **–** and **+** buttons will send their MIDI messages using these CC numbers.

Min: The **–** and **+** buttons will send these values when you release them.

Max: The **–** and **+** buttons will send these values when you press them.

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CC Latch

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	TYPE	CC LATCH ⌄

	– BUTTON			+ BUTTON
CHAN	GLOBAL ⌄		CHAN	GLOBAL ⌄
CC	0 Bank Select ⌄		CC	0 Bank Select ⌄
MIN	0 ⌄		MIN	0 ⌄
MAX	127 ⌄		MAX	127 ⌄

When set to **CC Latch**, the – and + buttons will each send a CC message with one value when you press it and send a different value when you press it a second time ("latching" or "toggle" behavior).

The buttons will light up in the following way:

When the – button's first program is selected, the – button will be **blue** and **dimly lit**.

When the – button's second program is selected, the – button will be **blue** and **brightly lit**.

When the + button's first program is selected, the + button will be **blue** and **dimly lit**.

When the + button's second program is selected, the + button will be **blue** and **brightly lit**.

These are the available parameters:

Chan: The – and + buttons will send their messages over these channels. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

CC: The – and + buttons will send their MIDI messages using these CC numbers.

Min: The – and + buttons will send these values when you press them the first time.

Max: The – and + buttons will send these values when you press them the second time.

CC Inc/Dec

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

	TYPE	CC INC/DEC ⌄

	– + BUTTONS
CHAN	GLOBAL ⌄
CC	0 Bank Select ⌄
MIN	0 ⌄
MAX	127 ⌄

When set to **CC Inc/Dec**, the – and + buttons will increment and decrement the CC number (respectively) by **1** each time you press them. After it reaches its lowest or highest value, it will "wrap around" and start again at its highest or lowest value (respectively). In other words, pressing the – and + buttons cycle through its entire range by increments of 1.

Each of the buttons will light up **blue** briefly when pressed.

These are the available parameters:

Chan: The – and + buttons will send their messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

CC: The – and + buttons will send their MIDI messages using this CC number.

Min: This will be the lowest value that the – and + buttons can send (**0–127**).

Max: This will be the highest value that the – and + buttons can send (**0–127**).

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MMC

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

TYPE   [MMC ▾]

DEVICE ID [0 ⬍]   DEVICE ID [0 ⬍]

When set to **MMC**, the **–** and **+** buttons will send MMC (MIDI Machine Control) message. MMC is a transport control protocol that is used to remotely control some recording hardware and DAWs.

The **–** button (left) will send a **Stop** message, and the **+** button (right) will send a **Play** message.

The buttons will be lit **red** while stopped and **green** while playing.

These are the available parameters:

Device ID: The **–** and **+** buttons will send their messages over this channel: **0–127**.

Note: The most commonly used Device IDs are **1–16**.

Setting the Device ID to **127** will send messages to all devices on any channel.

Keybed & Zones

The **keybed** (the piano keys) on your Hammer 88 can be divided into 1–4 "zones." When a zone is active (i.e., when its checkbox is checked), it can send its controls' MIDI messages over its own MIDI channel. Zones are independent and can overlap each other, as well.

Tip: This feature is great for dividing your Hammer 88 between different virtual instruments or synthesizers. For example, you can create two zones, each using a different MIDI channel, and play and control two virtual instruments simultaneously—one with each half of the keys.

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

KEYBED

OCTAVE	0	TRANSPOSE	0	VELOCITY CURVE	HARD

ZONE 1 ☑		ZONE 2 ☑		ZONE 3 ☑		ZONE 4 ☐
CHAN	Global	CHAN	Channel 2	CHAN	Channel 2	
FIRST	1 A (0)	FIRST	1 A (0)	FIRST	51 B (4)	
LAST	88 C (8)	LAST	51 B (4)	LAST	88 C (8)	
OCTAVE	0	OCTAVE	0	OCTAVE	0	
TRANSPOSE	0	TRANSPOSE	0	TRANSPOSE	0	

Click each of the **Zone 1–4** checkboxes to enable or disable each zone. Use each zone's parameters to set the MIDI assignments for it on your Hammer 88. All 4 zones have the same parameters, which operate independently.

Note: If any keys on the keybed are **not** assigned to a zone, they will continue to send their messages over the global MIDI channel and use the **Octave** and **Transpose** menu settings above the **Zone** checkboxes.

Note: Each zone's Octave and Transposition settings are independent from the keybed's Octave and Transposition, but all of these affect the note that a key sends out.

These are the available parameters for the entire keybed, which work in conjunction with any zone settings:

Octave: The keybed will send its notes using this octave shift (from its original position on the keybed) (**-6** to **+6**).

Transpose: The keybed will send its notes using this transposition (from its original position on the keybed) (**-12** to **+12**).

Velocity Curve: This setting determines how much force is required to generate a note with a specific velocity:

- **Hard**: The keybed will require a lot of force to generate high-velocity notes. This is the default setting as it creates the most realistic "feel" for a hammer-action keyboard like Hammer 88.

- **Soft 1** & **Soft 2**: The keybed will require little force to generate high-velocity notes. Use one of these settings if you want to play high-velocity notes more easily.

- **Linear**: This is a straight "linear curve"—the note generated will always be proportional to the amount of force used.

- **Fixed 64**, **Fixed 100** & **Fixed 127**: These settings "lock" all notes at a single velocity, regardless of how much force you use to play them. **127** is the maximum velocity. **64** is considered half-velocity.

These are the available parameters for each zone:

Chan: The zone will send its messages over this channel. Select the global channel (**Global**) or a specific channel (**Channel 1–16**).

First: This will be the lowest key of that zone (**1/A0 – 88/C8**).

Last: This will be the highest key of that zone (**1/A0 – 88/C8**).

Octave: The zone's keys will send their notes using this octave shift (from their original position on the keybed) (**-6** to **+6**).

Transpose: The zone's keys will send their notes using this transposition (from their original position on the keybed) (**-12** to **+12**).

Wheels

Click **Wheels** to set the MIDI assignments for the **modulation wheel** (the left wheel) or the **pitch-bend wheel** (the right wheel) on your Hammer 88.

The **pitch-bend wheel** can send out pitch-bend information only, within the specified range when you move it. These are the available parameters:

> **Chan**: The pitch-bend wheel will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**) or a specific channel (**Channel 1–16**).

> **Min**: This will be the lowest value that the pitch-bend wheel can send (**0–127**).

> **Max**: This will be the highest value that the pitch-bend wheel can send (**0–127**).
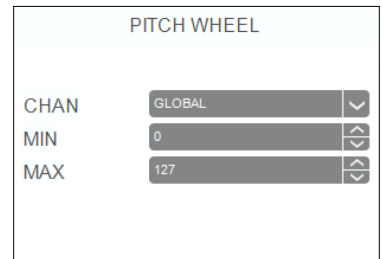
The **modulation wheel** can send aftertouch, CC, or pitch-bend messages.

Click the **Type** menu and select one of the following options. The parameters below will depend on your selection.

- **Aftertouch**: The modulation wheel will send aftertouch messages within the specified range when you move it. See **Aftertouch** to learn about the available settings.

- **CC**: The modulation wheel will send values within the specified range for a specific controller change (CC) message when you move it. See **CC** to learn about the available settings.

- **Pitch Bend**: The modulation wheel will send pitch-bend information within the specified range when you move it. See **Pitch Bend** to learn about the available settings.

CC
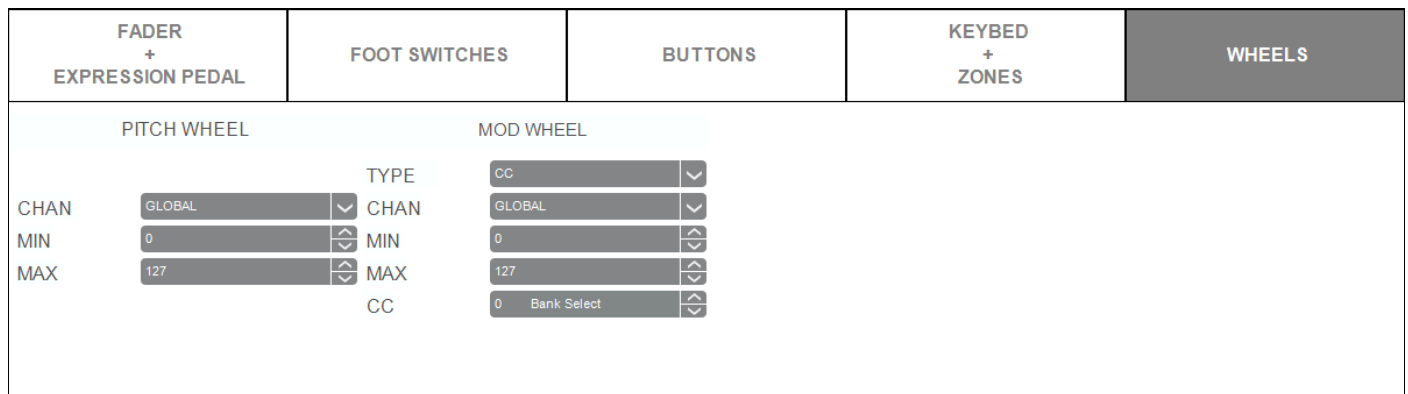
When set to **CC**, the modulation wheel will send values within the specified range for a specific controller change (CC) message when you move it. These are the available parameters:

> **Chan**: The modulation wheel will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

> **Min**: This will be the lowest value that the modulation wheel can send (**0–127**).

> **Max**: This will be the highest value that the modulation wheel can send (**0–127**).

> **CC**: The modulation wheel will send its MIDI messages using this CC number (**0–127**).

Aftertouch

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

PITCH WHEEL			MOD WHEEL	
		TYPE	AFTERTOUCH	⌄
CHAN	GLOBAL ⌄	CHAN	GLOBAL	⌄
MIN	0 ⌃⌄	MIN	0	⌃⌄
MAX	127 ⌃⌄	MAX	127	⌃⌄

When set to **Aftertouch**, the modulation wheel will send aftertouch messages within the specified range when you move it. These are the available parameters:

Chan: The modulation wheel will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Min: This will be the lowest value that the modulation wheel can send (**0–127**).

Max: This will be the highest value that the modulation wheel can send (**0–127**).

Pitch Bend

FADER + EXPRESSION PEDAL	FOOT SWITCHES	BUTTONS	KEYBED + ZONES	WHEELS

PITCH WHEEL			MOD WHEEL	
		TYPE	PITCH BEND	⌄
CHAN	GLOBAL ⌄	CHAN	GLOBAL	⌄
MIN	0 ⌃⌄	MIN	0	⌃⌄
MAX	127 ⌃⌄	MAX	127	⌃⌄

When set to **Pitch Bend**, the modulation wheel will send pitch-bend information within the specified range when you move it. These are the available parameters:

Chan: The modulation wheel will send its messages over this channel. Select the global channel (**Global**), all channels (**Omni**), or a specific channel (**Channel 1–16**).

Min: This will be the lowest value that the modulation wheel can send (**0–127**).

Max: This will be the highest value that the modulation wheel can send (**0–127**).

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Software Menus

File

Send Preset   Select this to export the current settings from the Hammer 88 Editor to your connected Hammer 88 keyboard. Alternatively, press **Ctrl**+**Shift**+**S** (Windows) or **Control**+**Shift**+**S** (macOS).

Retrieve Preset   Select this to import the current settings from your connected Hammer 88 keyboard into the Hammer 88 Editor. Alternatively, press **Ctrl**+**Shift**+**R** (Windows) or **Control**+**Shift**+**R** (macOS).

Load Preset   Select this to locate and load a preset file (**.h88**) on your computer to the Hammer 88 Editor. Alternatively, press **Ctrl**+**O** (Windows) or **Control**+**O** (macOS).

Save Preset   Select this to save the Hammer 88 Editor's current settings to your computer as a preset file (**.h88**). Alternatively, press **Ctrl**+**S** (Windows) or **Control**+**S** (macOS).

Exit   Select this to close the Hammer 88 Editor.

macOS users: This option is in the **M-Audio Hammer 88 Preset Editor** menu.

Help

About   Select this to view information about this version of the Hammer 88 Preset Editor.

macOS users: This option is in the **M-Audio Hammer 88 Preset Editor** menu.

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