

# malletSTATION™ EM PRO

THE EXPANDABLE, PREMIUM QUALITY, PROFESSIONAL  
ELECTRONIC Mallet INSTRUMENT OF YOUR DREAMS.

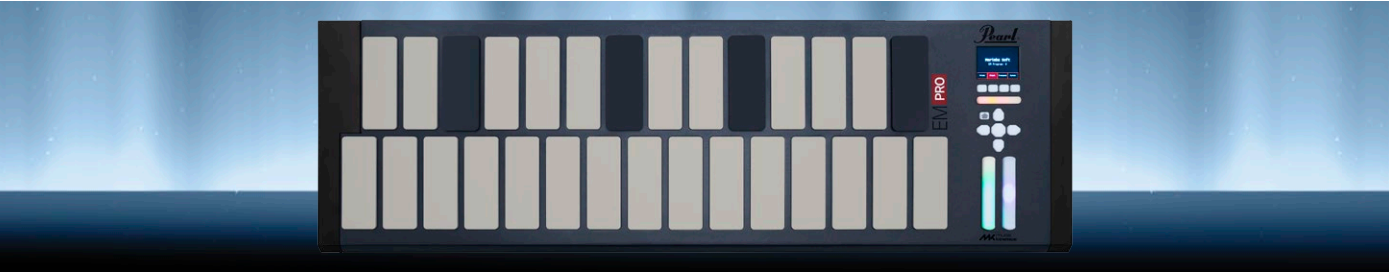


## QUICK START GUIDE

EMC FIRMWARE v0.1.3.5 · Revision 0.2

*Pearl*®

## INTRODUCTION



Congratulations on your new **Pearl EM PRO malletSTATION!** You're now the proud owner of one of the most versatile and innovative electronic mallet instruments available. Whether you're a seasoned professional or just starting your musical journey, the Pearl EM PRO malletSTATION is designed to inspire creativity and elevate your performances. Here are some tips to help you get started:

- 1. Explore the Controls:** Familiarize yourself with the programmable backlit touch-sensitive buttons and control sliders. These features allow you to customize your playing experience and access various settings quickly.
- 2. Utilize Connectivity Options:** The malletSTATION EMC offers both USB and 5-pin MIDI connectivity, making it easy to integrate with your existing MIDI setup or connect to a computer for expanded functionality.
- 3. Expand Your Instrument:** Take advantage of the expandable design by adding up to three EMX Expansion Modules. This allows you to create a 3, 4, or even a full 5-octave instrument, perfect for more complex compositions.
- 4. Personalize your EM PRO Experience:** The Muse Kinetics Smart Fabric Sensors provide increased bar precision and dynamic range, ensuring your performance is both expressive and accurate. A wide range of preset and feature controls are available to adjust responsiveness and performance of the EMC to match your unique playing style.
- 5. Stay Updated:** Keep an eye on firmware updates and new features released by Pearl to ensure your malletSTATION remains at the cutting edge of electronic percussion technology.

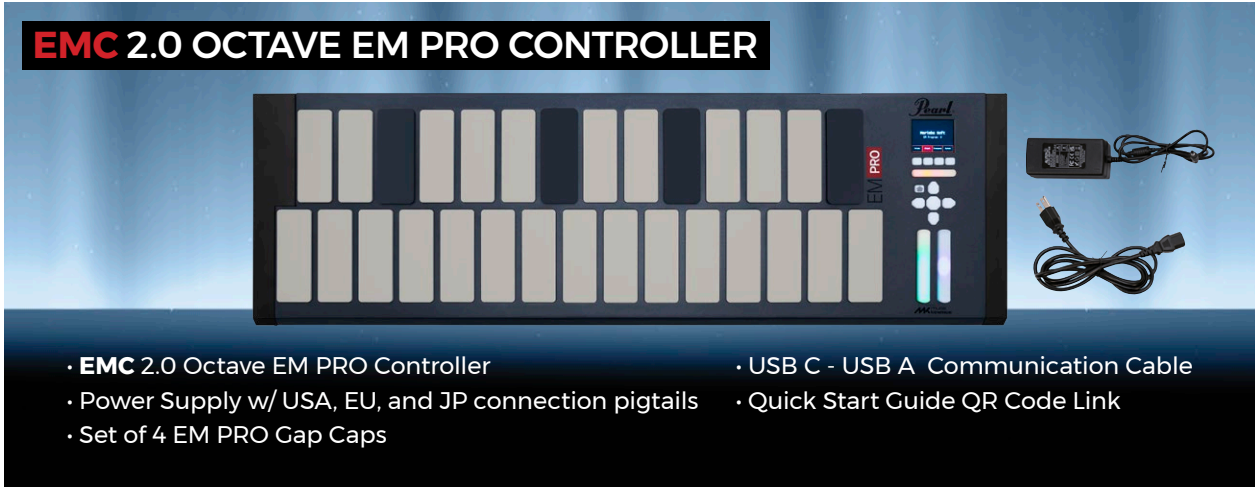
Dive into the world of endless musical possibilities and enjoy the seamless integration, customizable features, and exceptional sound quality that the malletSTATION offers.

*Welcome to the Pearl family, and happy playing!*

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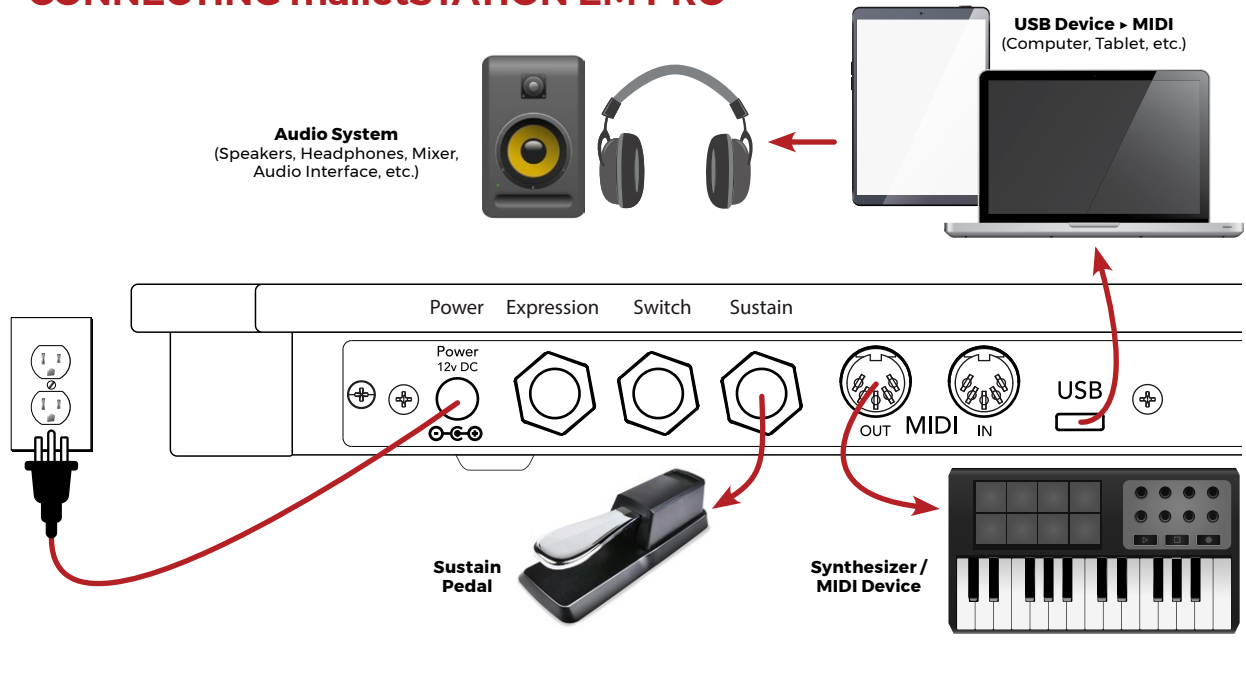
**WHAT'S IN THE BOX • SETUP & ADD ONS**

**EMC 2.0 OCTAVE EM PRO CONTROLLER**

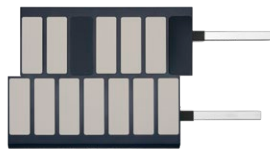


- EMC 2.0 Octave EM PRO Controller
- Power Supply w/ USA, EU, and JP connection pigtails
- Set of 4 EM PRO Gap Caps
- USB C - USB A Communication Cable
- Quick Start Guide QR Code Link

**CONNECTING malletSTATION EM PRO**



**OPTIONAL ADD ONS**



**EMX**  
1.0 Octave Expansion Module



**EMSC**  
64-Bit 2.0GHz Sound Card

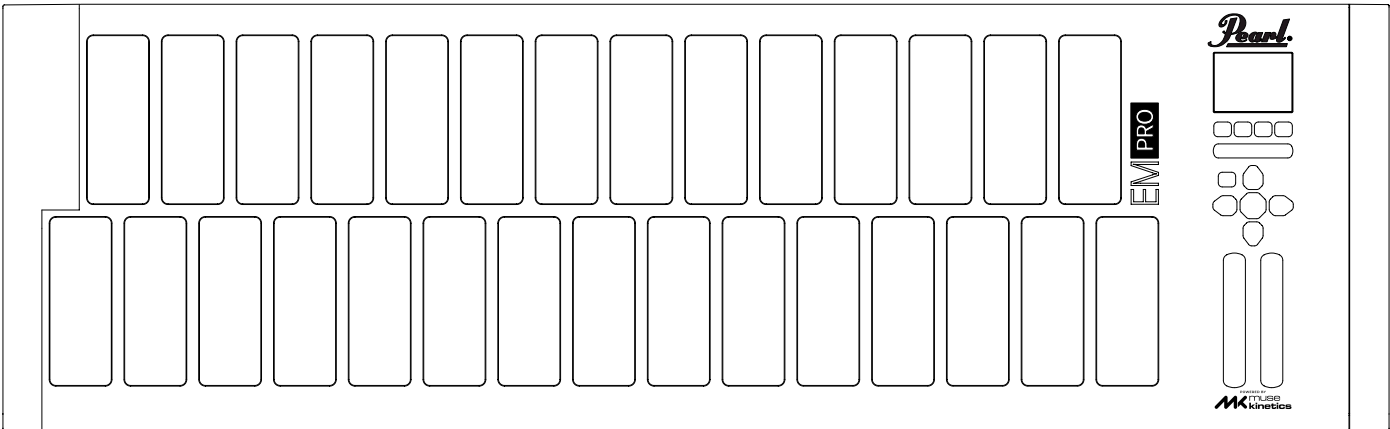


**PKCS**  
Keyboard Stand



**MS130**  
Sustain Pedal

## malletSTATION EM PRO HARDWARE



The malletSTATION EM PRO is a professional, expandable 29-bar electronic mallet percussion instrument and MIDI controller.

## BARS

The malletSTATION EM PRO Control unit has 29 pressure and velocity sensitive bars featuring Muse Kinetics Smart Fabric Sensors. This range can be expanded to 71 bars by connecting up to 3 EMX Expansion Modules to the EMC Controller.

### DAMPENING AND AFTERTOUCH

The malletSTATION EM PRO bars respond to traditional bar dampening technique. If you apply gentle pressure to a bar that is “ringing,” the note will cease.

The bars can also respond to this pressure to send Aftertouch messages.

You can easily check if features like Gap Caps, Dampening, and Aftertouch are enabled from the information on the [\[Home Screen\]](#).

NOTE: Click links to view the section [\[Home Screen\]](#)

Settings for bar Dampening and Aftertouch can be found in the Preset Edit menu.

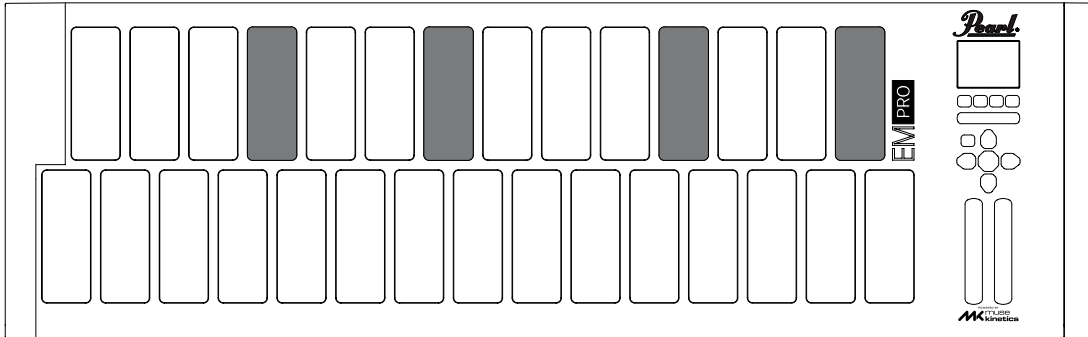
### TRANSPOSING BARS AND GAP CAPS

The malletSTATION EM PRO is a transposable electronic mallet percussion instrument. This means that you can change the note of the lowest bar to achieve different ranges on the instrument. “Gap Caps” are removable silicone caps that you apply to the bars that are not part of the layout for a particular transposition.

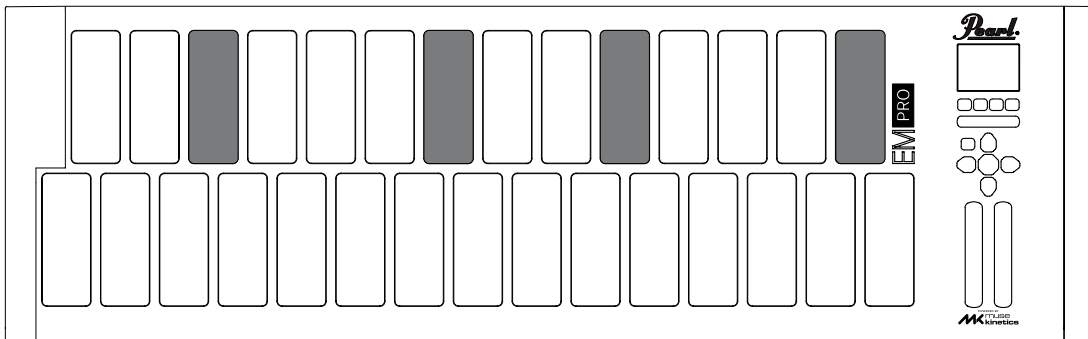
**malletSTATION EM PRO HARDWARE**

**BARS**

By default, the malletSTATION EM PRO boots up with a low bar of F.  
The Gap Cap placement for this transposition is:



If you were to transpose the malletSTATION down to a low bar of C, the gap cap placement would be:



## ADJUSTING BAR SENSITIVITY

The EMC and EMX bars can be adjusted to match your playing style. These settings can be found in the **[Bars Menu]**.

## IMPLEMENTS

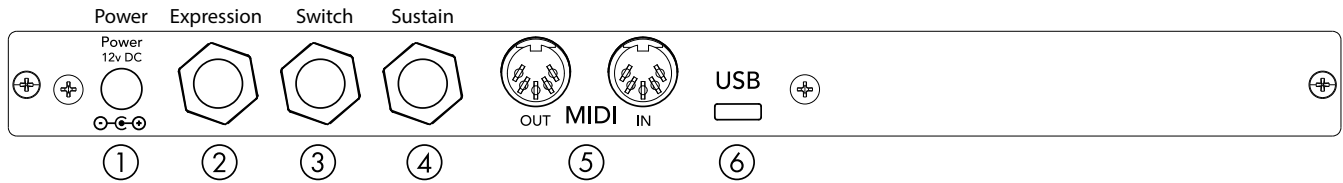
The malletSTATION EM PRO was designed to be able to be played with a multitude of implements, including most keyboard percussion mallets as well as drumsticks. Please keep in mind that it is still an electronic instrument, and should not be played with excessively heavy implements or anything that could damage the unit. Standard mallets and sticks work great on malletSTATION EM PRO.

## EMX EXPANSION MODULES

The EMX Expansion Modules augment the range of the EMC Controller. Each expander adds an additional 14 bars. Up to 3 EMX Expansion Modules can be connected to an EMC Controller for up to 71 bars total. For more information about connecting the EMX Expansion Module, visit the **[EMX 1.0 Octave Expansion Module]** section at the end of the guide.

**malletSTATION EM PRO HARDWARE**

**EMC REAR PANEL**



**1. POWER**

Plug in the included power supply to power the EM PRO. The EM PRO is not a bus powered instrument.

**2. EXPRESSION PEDAL INPUT**

Plug an expression pedal (not included) into this jack. You can change the CC, MIDI Channel, and adjust the Table in the Pedals section of the Preset Controls Edit menu. There are many different expression pedals on the market available in a range of different resistance ratings and taper profiles. We recommend using a model with a 10k linear potentiometer and TRS plug like those found in the M-Audio EXP and Boss EV5 expression pedals. NOTE: a volume pedal will not work as a substitute for an expression pedal.

**3. SWITCH PEDAL INPUTS**

**4. SUSTAIN PEDAL INPUTS**

Plug a Pearl MS130 sustain pedal (not included), or similar pedal, into these jacks. You can change the pedal parameters like mode, inversion, MIDI CC and Channel in the Pedals section of the Preset Controls Edit menu.

**5. MIDI IN/OUT**

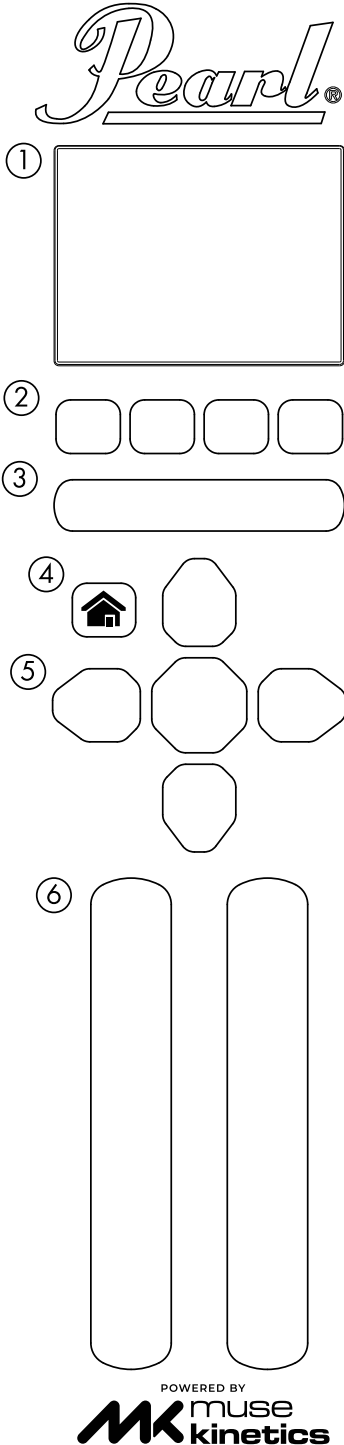
Connect to external MIDI hardware via 5 pin MIDI cables using the MIDI In and Out jacks.

**6. USB-C**

Connect to a computer to send MIDI over USB using the USB-C jack.

**malletSTATION EM PRO HARDWARE**

**CONTROL PANEL**



**1. DISPLAY**

The LCD display has a polycarbonate lens with an anti-scratch coating. The display shows the EM PRO menu and user interface, allowing you to quickly adjust parameters using the silicone control buttons.  
*Note: The display is not a touch screen.*

**2. MENU TAB BUTTONS**

The Menu Tab buttons below the display select the various tabs in the active menu. Pressing a tab button will enter the selected tab, and pressing the tab button again will scroll through the pages in a multi-page tab.

**3. HORIZONTAL SLIDER**

The Horizontal Slider is helpful for quickly selecting or adjusting values for the highlighted parameter.

**4. HOME BUTTON**

Pressing the Home Button will return you to the Home screen. Holding the Home Button for 5 seconds will open the Power Off dialog. If the current preset has unsaved changes, you will be prompted to discard or save them before powering off.

**5. DIRECTION AND SELECT BUTTONS**

The Up and Down direction buttons select the highlighted parameter and navigate the menus on the display.

The Left and Right direction buttons increase or decrease the highlighted parameter value, or can toggle selected switches on and off. In some menus, the Left and Right direction buttons will navigate between the left and right columns shown in the menu layout.

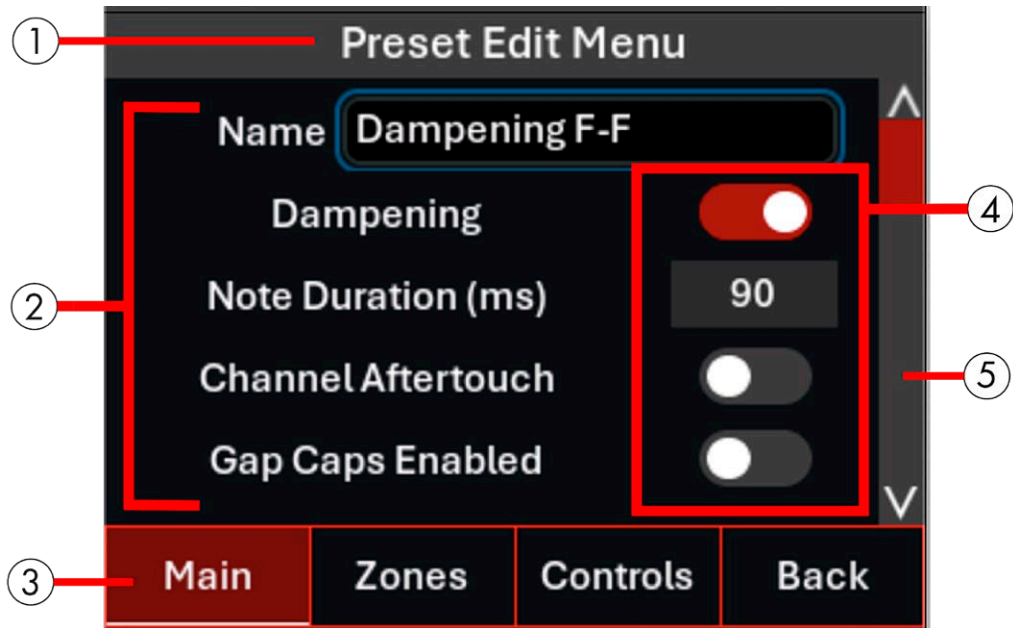
Pressing the select button will activate the highlighted parameter, toggle highlighted switches, and open Name Edit or dropdown menu fields, depending on what parameter is selected. Holding the Select Button for two seconds reverts the highlighted parameter to the Factory Default value.

**6. VERTICAL SLIDERS**

The Left Vertical Slider is a Mod Wheel slider mapped to CC1

The Right Vertical Slider controls Pitch Bend. This slider will return to zero when released.

**MENU FUNCTIONS**



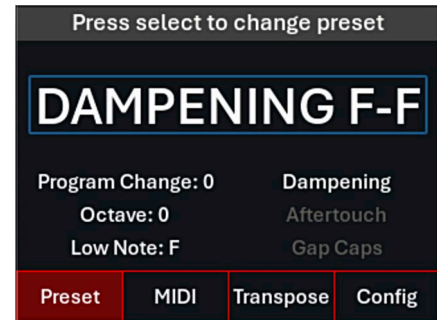
- 1. MENU TITLE**
- 2. LAYOUT**
- 3. TABS**
- 4. PARAMETERS**
- 5. SCROLL BAR**

The menu system consists of multiple menus, with each menu having up to four tabs, with each tab organized into layouts that present controls or information relevant to their respective functions. Some tabs will contain multiple pages of layouts, which can be accessed by navigating up and down with the direction arrows, or by pressing the tab button multiple times. Some menus will have tabs that are actually links to other menus.

## MENU FUNCTIONS

## HOME MENU

The Home Menu acts as the central hub for quick access to the most commonly used preset parameters like soft MIDI sliders and buttons, octave and low note transposition, and quick program change messages. The Home Menu also contains the Config tab, which links to the **[Global Configuration Menu]** where you can perform factory resets, edit global parameters like screen brightness, and adjust playability and bar sensitivity.



### HOME - PRESET TAB

When the EMC powers on it opens to the Home Preset tab, which you can access from any menu by pressing the Home button. The Preset Tab displays information about the active preset, such as the low note (gap cap) setting, and if Dampening, Aftertouch, and Gap Caps are enabled (white) or disabled (grey).

### CONTROLS:

- Use the up/down direction arrows to change the octave.
- Use the left/right direction arrows to send program change messages to the USB host.
- Press select to load the **[Preset Edit Menu]**.

### HOME - MIDI TAB

The MIDI tab provides access to user-configurable MIDI control sliders and buttons. These sliders and buttons can be programmed in the Preset Edit menu.

### HOME - TRANSPOSE TAB

The Transpose tab provides access to Octave and Low Note transposition.

### HOME - CONFIG TAB

The Config Tab is a link to the **[Global Configuration Menu]**.

**MENU FUNCTIONS**

**PRESET MANAGEMENT**

**LOADING PRESETS**

The Preset Roller is displayed on the left side of the screen, listing all 16 available Presets. The active preset will be indicated with arrows -> **LIKE THIS** <-. When the roller is selected you can use the Up and Down direction buttons to scroll through the presets. Pressing the Select button will load the highlighted preset into active memory. You can use the Left and Right direction buttons to navigate between the Preset Roller and the Edit, Save, and Reset buttons.



**EDIT PRESETS**

Pressing this button enters the Preset Edit Menu. Details of how to edit the EM PRO preset parameters can be found in the [\[Preset Edit Menu\]](#) section.

**SAVE PRESETS**

If there are unsaved changes to the current preset, you will see an asterisk in the Preset Name field. From the Preset Menu window, press the “Save” button to save changes made to the preset. If there are unsaved changes when you try to load a new preset, you will be prompted to save or discard your changes.

**RESET PRESETS**

You can use this button to reset the loaded preset to its default settings. To reset all of the presets to factory defaults, see the [\[Config -> System\]](#) tab.

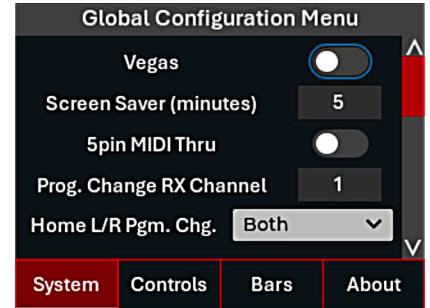
## MENU FUNCTIONS

## GLOBAL CONFIGURATION MENU

The Global Configuration Menu lets you adjust global settings, and perform functions such as factory reset, bar regulation, and adjust bar sensitivity. Changes made to these settings are saved in real time, and will persist after the system is power cycled.

### CONFIG - SYSTEM TAB, PAGE 1

- **Vegas Mode** - Toggles a LED light show
- **Screen Saver** (minutes) - Sets the time before the screen saver engages
- **5 pin MIDI Thru** - Toggle the hardware MIDI Thru on-off. When on, all messages received at the MIDI input will be echoed to the output.
- **Prog. Change RX Channel** - Program Changes received from USB and 5 pin MIDI on this channel will change the active preset.
- **Home L/R Pgm Chg.** - Selects whether the left/right buttons on the home page control program changes for USB, 5 pin MIDI, or both.



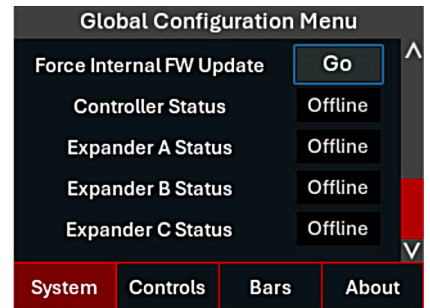
### CONFIG - SYSTEM TAB, PAGE 2

- **Factory Reset Globals** - Resets all of the config menu settings to defaults.
- **Factory Reset All Presets** - Resets all presets to default.
- **Complete Factory Preset** - Resets globals, presets, and bar regulation.
- **Load Firmware Bootloader** - Puts the EMC into bootloader mode to receive firmware updates.
- **Shutdown System** - Prompts to save changes before powering down the EMC.



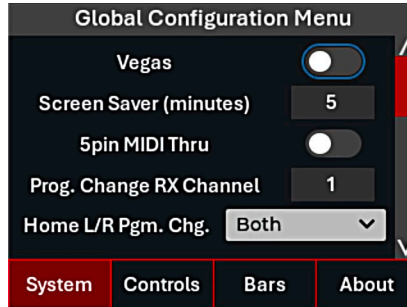
### CONFIG - SYSTEM TAB, PAGE 3

- **Force Internal FW Update** - The EMC controller and each attached EMX expander have internal microprocessors that scan the bars. The EMC will automatically update the internal firmware when necessary, so you should only need to do a manual update when instructed by support.
- **Controller and Expander Status** - Attached EMX octaves should always read as "Online".



**MENU FUNCTIONS**

**GLOBAL CONFIGURATION MENU**



**CONFIG - CONTROLS TAB**

The Controls Tab provides access to controls for adjusting the brightness of the Display and Slider LEDs, and for setting the On Threshold of the Horizontal and Vertical sliders.

**CONFIG - BARS TAB**

The Bars Tab is a link to the **[Bars Menu]**, which provides comprehensive controls for managing the sensitivity, thresholds and gain of global and individual bar configurations.

**CONFIG - ABOUT TAB**

Thank you from us who worked hard to make EM PRO, the mallet controller of your dreams, a reality.

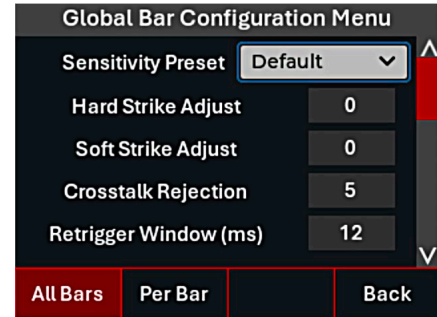
## MENU FUNCTIONS

## BARS MENU

### BARS - ALL BARS TAB, PAGE 1

The All Bars Tab Page 1 lets you adjust the sensitivity settings.

The easiest way to adjust these settings is to use the dropdown to select from the Default, Low, and High presets. When a preset is selected, the settings are greyed out and can not be adjusted. Selecting Custom will enable the settings to be adjusted.



- **HARD STRIKE ADJUST** - this adjusts the stored peak bar values, either from factory calibration or from Bar Regulation. A higher value makes it easier to reach the maximum hard strike, a lower value will require harder strikes to achieve full volume. This parameter is similar to gain, but it does not affect if a bar activates when struck.
- **SOFT STRIKE ADJUST** - this adjusts the bar activation threshold. A higher value makes the bars more sensitive to softer strikes. Lower values will help prevent crosstalk and unintended notes from triggering. Similar to a gate or on threshold, this setting determines if a bar is activated when struck.
- **CROSSTALK REJECTION** - a higher value will prevent unintended notes caused by hard strikes, but may filter some notes when playing chords.
- **RETRIGGER WINDOW (ms)** - a higher value prevents double triggering when hard striking a bar, which sometimes can cause a note to self cancel. A lower value allows for faster playing techniques, including buzz rolls.

*Note:* The EM Pro crosstalk algorithm applies more crosstalk (+2) to bars that are adjacent (+/- one whole step) to the bar currently being struck.

The maximum amount of crosstalk that can be applied to any bar is 8, and the crosstalk value for any bar is:

**[All Bars setting] + [Per Bar setting] + [+2 if the bar is adjacent]**

**MENU FUNCTIONS**

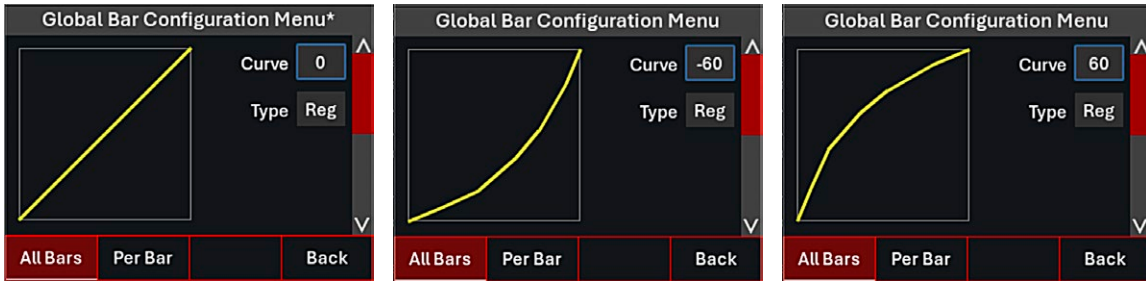
**BARS MENU**

**BARS - ALL BARS TAB, PAGE 2**

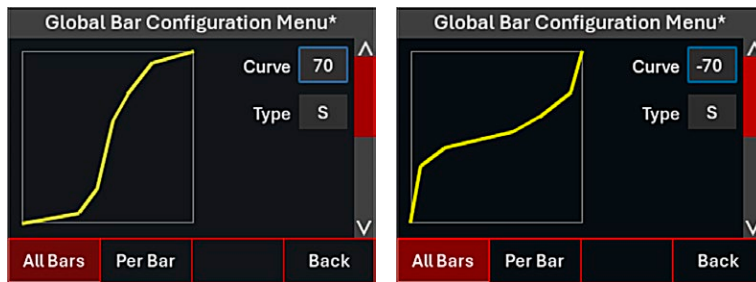
The All Bars Tab Page 1 is where you apply a sensitivity curve. This is a global setting that provides an easy way to adjust the dynamic range of the bars. A positive curve will make softer strikes louder, and a negative curve will make harder strikes quieter. You can think of the curve as an X/Y graph, where the X axis is the input value, and the Y axis is the output value.

**There are two types of curves, regular “Reg” and “S”**

The *Reg* curve is a simple exponential or logarithmic function. To adjust the degree of the curve, use the horizontal fader to make large value adjustments or the Left/Right arrows for incremental value changes.



The *S* curve lets you achieve more advanced functions, a positive value will make most notes very quiet until you hit a threshold that makes them very loud, and a negative value will make most notes play at a middle volume.



**MENU FUNCTIONS**

**BARS MENU**

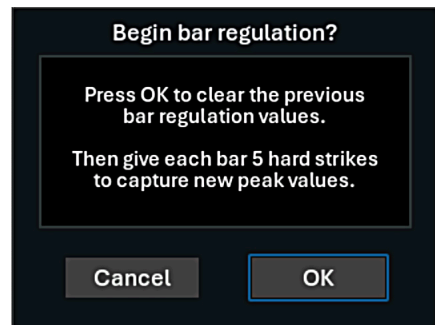
**BARS - ALL BARS TAB, PAGE 3**

The All Bars Tab Page 3 is where you access the Bar Regulation function, Load the Factory Calibration or turn on the Debug Messaging feature to assist in the event you need technical support services.



**BAR REGULATION**

Every player has their own concept of a “Hard Strike.” Bar Regulation allows you to calibrate the malletSTATION peak bar values by playing the bars with your own hard strikes, rather than using the calibrated values that were stored at the factory.



To begin, select the Bar Regulation “Go” button. A dialog will appear, selecting “OK” will begin regulation, which will return the display to the previous menu. Give each bar 5 hard strikes, representing the typical upper end of the dynamic range of your strikes. The Bar Regulation process happens internally without any displayed accept/reject/complete alerts, you only need to strike the bars 5 times each to complete the process.

For each bar, the values of the 5 hard strikes will be averaged together, and the average will be used as the new calibrated Hard Strike (peak) value for that bar.

Once you have completed Bar Regulation, you can use the Hard Strike Adjust parameter in the All Bars and Per Bars tabs to adjust the values that were stored during Bar Regulation. For most situations, you should not need to repeat the Bar Regulation process. You can use the All Bars adjustment to tune all of the bars globally, this is helpful in situations where the environment changes (i.e. outdoors or indoors). The Per Bars adjustment is meant to help individually tune the bars to play consistently with each other.

**LOAD FACTORY CALIBRATION**

This option will clear the bar regulation values and restore the factory calibration settings.

**DEBUG MESSAGING**

This enables debug messages, and is only necessary when working directly with the Muse Kinetics Support team. Otherwise leave this turned off.

## MENU FUNCTIONS

## BARS MENU

### BARS - ALL BARS TAB, PAGE 3

(CONTINUED)

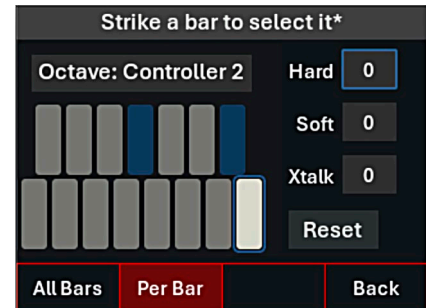
### BARS - PER BAR TAB

The Per Bar tab allows you to adjust each bar individually. The Per Bar parameters are the same as the All Bar parameters:

- **HARD** = Hard Strike Adjust
- **SOFT** = Soft Strike Adjust
- **XTALK** = Crosstalk Rejection

Per Bar and All Bar settings are combined with either the factory calibration or the bar regulation values, allowing you to quickly tune the bars to match your playing style.

To select a bar simply strike it with a mallet or your fingers. This will update the “Bar View” display, indicating which octave and bar is currently selected, and what the selected bar parameters are set to.



### COMMON ADJUSTMENTS

- A bar is too sensitive and plays too loud - turn down the Hard Strike adjustment
- A bar is insensitive and can't reach maximum volume - turn up the Hard Strike adjustment
- An unstruck bar is triggering when another bar is struck (crosstalk) - turn up the unstruck bar's Xtalk adjustment
- A bar is triggering when no bars are being played (noise) - turn down that bar's Soft Strike adjustment (this behaves like a noise gate)

### RESET

Use this to restore all of the per-bar settings to default (0).

## EDITING PRESETS

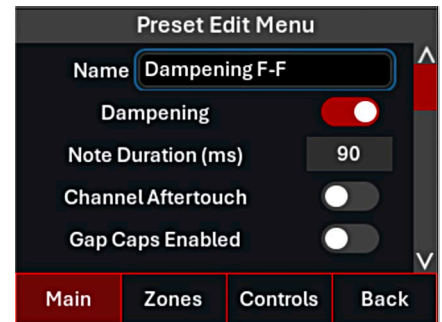
### MAIN PRESET EDIT MENU

#### NAMING PRESETS

Press the Select button to edit the Name field. The Preset Name can be a maximum of 19 characters long. Pressing select again will back out of Name field editing.

#### CONTROLS:

- Left and Right buttons navigate through the Name
- Up and Down buttons step through the available alphanumeric characters
- Horizontal Slider quickly scrolls through the available alphanumeric characters



### EDITING BAR SETTINGS

#### DAMPENING

Toggles Bar Dampening on/off. If engaged, the note will stop when you apply gentle pressure to a bar that is “ringing.”

#### NOTE DURATION

Sets the duration that the note will “ring” after a bar is struck. Measured in milliseconds between the Note On and Note Off messages.

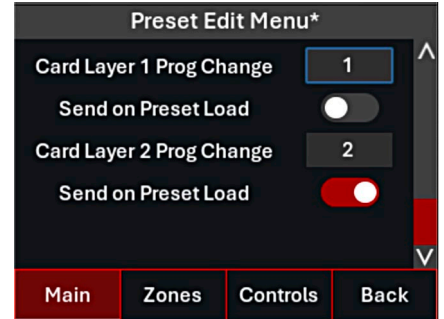
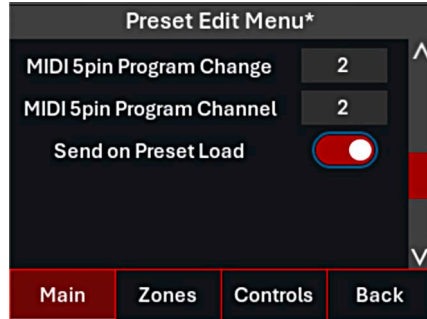
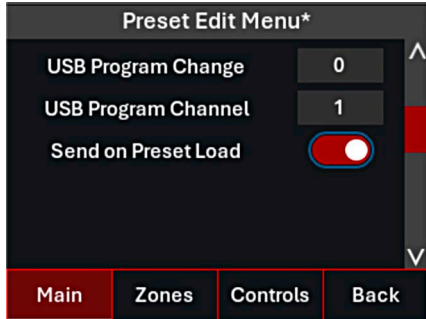
#### CHANNEL AFTERTOUCH

Toggles Channel Aftertouch on/off. When enabled, bars with Gap Caps send Channel Aftertouch messages.

#### GAP CAPS

Toggle Gap Caps on/off. When enabled, bars with Gap Caps can send MIDI Note or CC messages. See [\[Controls > Gap Caps\]](#) for more information.

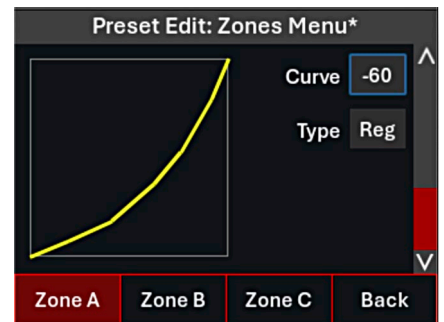
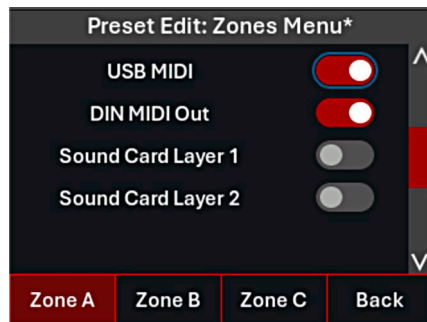
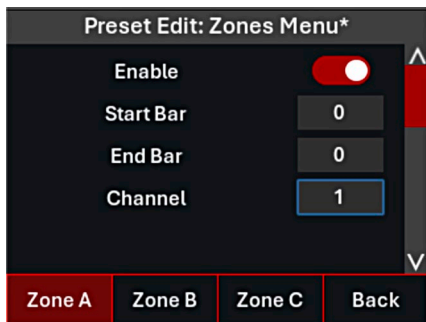
## EDITING PRESETS



### PRESET PROGRAM CHANGE SETTINGS

malletSTATION Pro can send Program Change messages to connected hardware when a new preset is loaded. This Program Change message is sent by USB MIDI and 5 pin MIDI (see Rear Panel MIDI In/Out). Set the Program Change number and the MIDI Channel it is sent on with the “USB” and “5pin MIDI” number boxes.

If your malletSTATION Pro has a Sound Card attached, you can send Program Change messages to the internal Card Layers when a new preset is loaded. Set the Program Change number with the appropriate number box.



### ZONES MENU

Each preset in malletSTATION Pro has three “Zones” or layers of MIDI information (Zones A, B, and C). From the Zones Menu you can toggle the Zone on/off, set the Start and End bars of each Zone, and set the MIDI Channel the information is sent on.

You can enable or disable output to the USB MIDI and 5 pin MIDI ports. If a Sound Card is connected, you can toggle if the internal Sound Card Layers 1 and 2 are engaged.

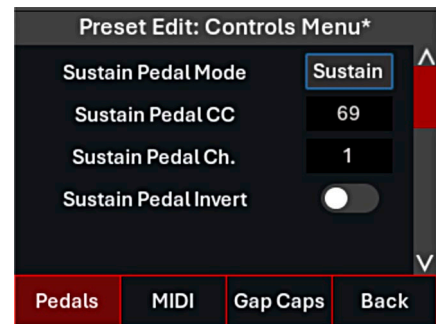
Adjusting the Zone curve will modify the dynamic response of the velocity of the notes in the Zone.

## PEDALS

You can connect Sustain, Footswitch and Expression pedals to the malletSTATION Pro at the Rear Control Panel. See the [\[Rear Control Panel\]](#) section for more information.

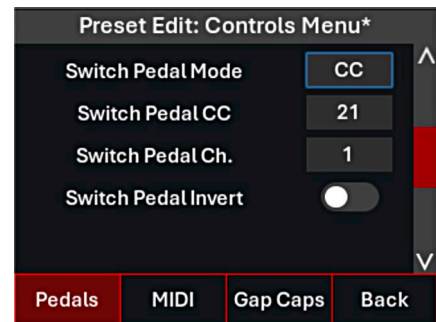
### SUSTAIN PEDAL SETTINGS

Sustain Pedal Mode sets whether a Sustain pedal plugged in triggers an internal sustain (Note Off not sent until the pedal is released) or sends a MIDI message to control the sustain of the note. Set the CC number and MIDI Channel with the number boxes. Toggle the Pedal Invert switch to change between Normally Open and Normally Closed.



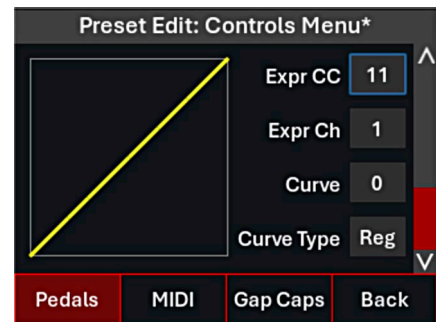
### SWITCH PEDAL SETTINGS

Switch Pedal Mode sets whether the Switch pedal plugged in acts as a sustain pedal or sends a MIDI CC message. Set the CC number and MIDI Channel with the number boxes. Toggle the Pedal Invert switch to change between Normally Open and Normally Closed.



### EXPRESSION PEDAL SETTINGS

An expression pedal plugged in can control a MIDI CC. Set the CC number and MIDI Channel with the number boxes. Apply a curve to the position of the expression pedal. The Reg curve is a simple exponential or logarithmic function. The S curve lets you achieve a more advanced S-shaped function. To adjust the degree of the curve, use the horizontal fader to make large value adjustments or the Left/Right arrows for incremental value changes.

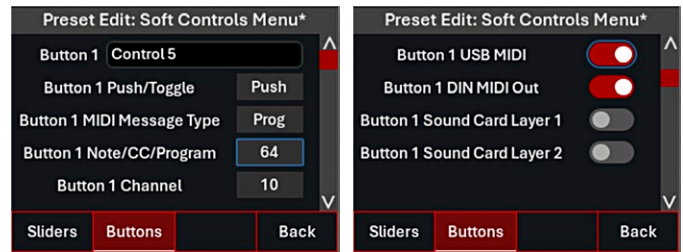
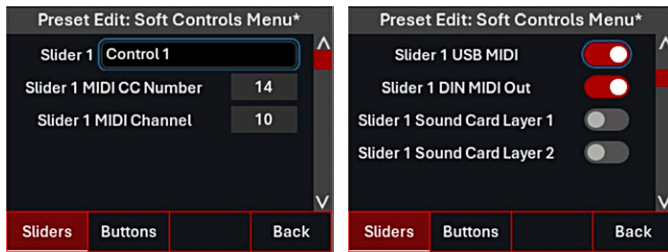


## EDITING PRESETS

## CONTROLS MENU

### SOFT MIDI CONTROLLER SETTINGS

Pressing the MIDI Tab from the Controls Menu opens the Soft Controls Menu. The Soft Controls menu allows you to edit the settings of the Soft Controls that are accessible from the **[Home - MIDI tab]**.



### SLIDERS

Each soft slider has its own set of parameters.

- Set the Name displayed for the soft slider with the slider's Name field.
- Set the MIDI CC# and Channel that the data will be sent on with the number boxes.
- Toggle whether or not the soft slider is sent on the USB or 5 pin MIDI ports.
- Toggle if the slider is sent to Card Layers 1 or 2 (only if Sound Card is connected).

### BUTTONS

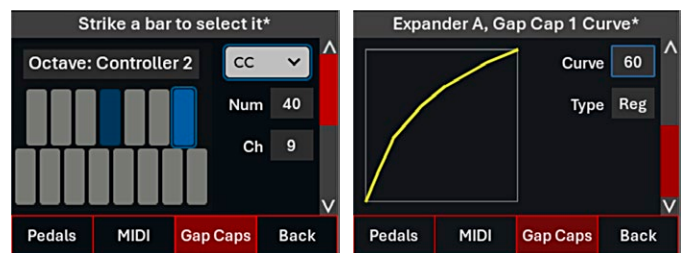
Each soft button has its own set of parameters.

- Set the Name displayed for the soft button with the button's Name field.
- Set whether the button is a momentary push button or a toggle switch.
- Set if the button will send a MIDI CC, Note or Program Change message.
- Set the MIDI Note, CC or Program Change and Channel with the number boxes
- Toggle whether or not the soft button is sent on the USB or 5 pin MIDI ports.
- Toggle if the soft button is sent to Sound Card Layers 1 or 2 (if card connected).

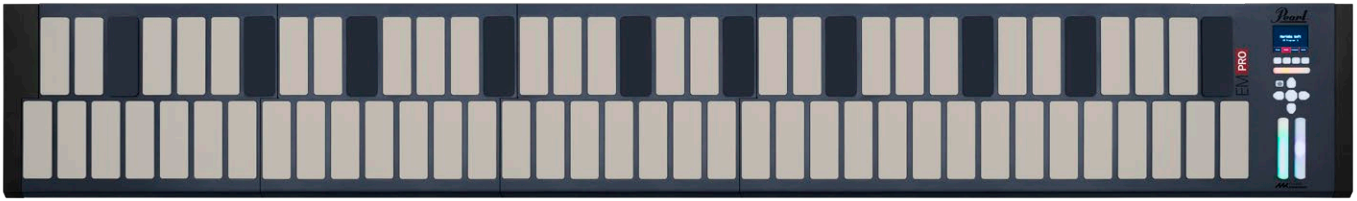
### GAP CAPS

“Gap Cap” bars are bars that are not included in the keyboard octave based on the layout of the current transposition (based on Lowest Note).

While not used to send MIDI Notes in the traditional layout, Gap Cap bars can be programmed to send their own MIDI message. Set the message type with the dropdown; then set the message number and MIDI channel with the number boxes. Adjusting the curve will modify the dynamic response of the data generated when you activate the gap cap.

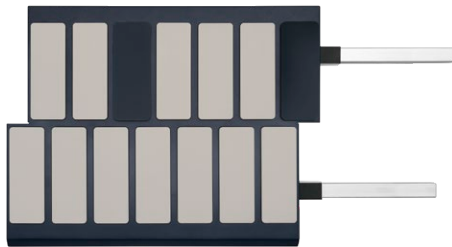


## EMX 1.0 OCTAVE EXPANSION MODULE



*Shown Above, One EMC 2.0 Control Module and Three EMX 1.0 Octave Expansion Modules creating a full 5.0 Octave EM PRO Mallet Instrument.*

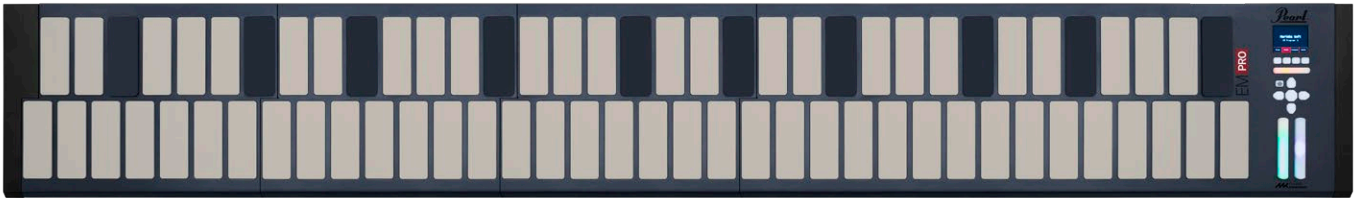
### CONNECTING AN EXPANSION MODULE (AVAILABLE SEPARATELY)



**EMX**  
1.0 Octave  
Expansion Module

- Lay the EMC and EMX face down on a flat working surface. Use a towel or blanket to protect the faces of the EMC and EMX.
- Locate the male ribbon connector on the right side of the EMC. It should be connected internally to the EMC PCB.
- Locate the female ribbon connector on the left side of the EMX. It should be connected internally to the EMX PCB.
- Align the EMX 20mm slip fit tubes to the matching openings of the EMC.
- Partially insert the EMX into the EMC until there is approximately 4 inches of space between them.
- Connect the two ribbon connectors, noting their tab and slot orientation.
- Place the connectors inside either the EMC or EMX cavities so that they do not prevent the gap between the EMC and EMX from being closed.
- Slowly insert the EMX the rest of the way, being careful to route the ribbon cable inside of the metal enclosure so that it does not become pinched.
- Use the four included mounting bolts to secure the EMX and EMC frames. Be careful not to strip or over tighten the bolts.

## EMX 1.0 OCTAVE EXPANSION MODULE



*Shown Above, One EMC 2.0 Control Module and Three EMX 1.0 Octave Expansion Modules creating a full 5.0 Octave EM PRO Mallet Instrument.*

### CONNECTING AN EXPANSION MODULE (CONTINUED)

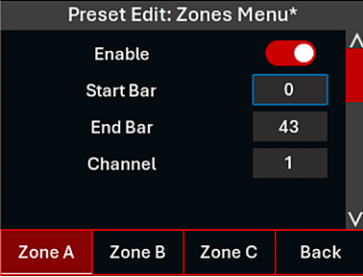
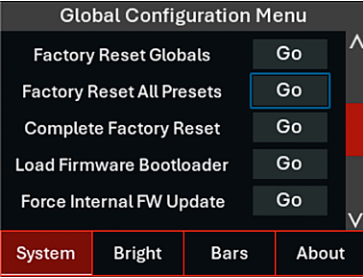
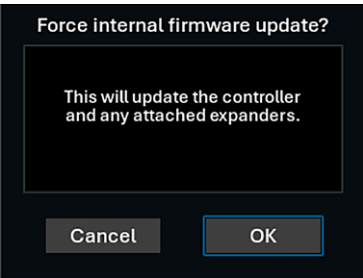
- Power on the EM PRO and navigate to the Global Configuration Menu -> System tab, second page. Select “Force Internal FW Update” and press “Go”. This will update the firmware on the attached expander(s).
- When the firmware update completes, select “Reboot” to restart the EMC.

**DO ONE OF THE FOLLOWING:**

- Reset all presets to factory defaults: Navigate to the Config Menu -> System tab, second page. Select “Factory Reset All Presets” and press “Go.” This will reset the Start Bar and End Bar values for Zone A to match the number of attached octaves.

**OR**

- Update your current preset: Navigate to the Preset Edit Menu -> Zones -> Zone A tab. Adjust the Start Bar and End Bar values to match the attached number of octaves. You can do this either with the arrow keys, or by selecting a value and striking the corresponding bar. Navigate back to the Presets Menu to save the current preset settings.



## PRECAUTIONS



### **MEDICAL DEVICES**

EM PRO malletSTATION may emit electromagnetic fields. These electromagnetic fields may interfere with pacemakers or other medical devices. If you wear a pacemaker, maintain at least 6 inches (approximately 15cm) of separation between your pacemaker and EM PRO malletSTATION. If you suspect EM PRO malletSTATION is interfering with your pacemaker or any other medical device, stop using EM PRO malletSTATION and consult your physician for information specific to your medical device.

### **MEDICAL CONDITIONS**

If you have any medical condition that you believe could be affected by EM PRO malletSTATION (for example, seizures, blackouts, eyestrain, or headaches), consult with your physician prior to using EM PRO malletSTATION.

### **EXPLOSIVE ATMOSPHERES**

Do not use EM PRO malletSTATION in any area with a potentially explosive atmosphere, such as a fueling area, or in areas where the air contains chemicals or particles (such as grain, dust, or metal powders). Obey all signs and instructions.

### **REPETITIVE MOTION**

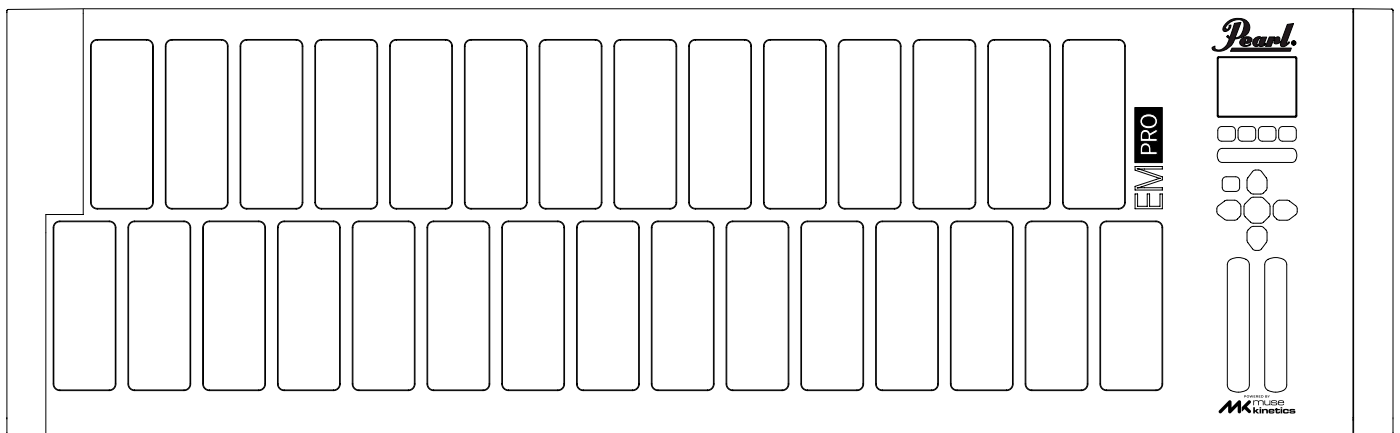
When you perform repetitive activities (such as hitting the EM PRO malletSTATION with sticks), you may experience occasional discomfort in your hands, arms, wrists, shoulders, neck, or other parts of your body. If you experience discomfort, stop using EM PRO malletSTATION and consult a physician.

### **HIGH-CONSEQUENCE ACTIVITIES**

EM PRO malletSTATION is not intended for use where the failure of the device could lead to death, personal injury, or severe environmental damage.

### **CHOKING HAZARD**

Some EM PRO malletSTATION accessories may present a choking hazard to small children. Keep these accessories away from small children.



# malletSTATION™

# EM PRO

POWERED BY

PEARL CORPORATION  
 CORPORATE HEADQUARTERS  
 549 Metroplex Dr.  
 P.O. Box 111240  
 Nashville, Tennessee 37211-3140  
 (615) 833-4477  
 FAX (615) 833-6242



Quick Start Guide  
**EMPRO125**