



HEADRUSH MX5 Ultra Portable Amp Modeling Guitar Effect Processor User Guide

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HEADRUSH[®]

MX5
Quick start Guide
User Guide

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Introduction

Box Contents

HeadRush MX5
USB Cable
(2) 1/8" (3.5mm) to MIDI Adapters
Power Adapter
Software Download Card
Quickstart Guide
Safety & Warranty Manual

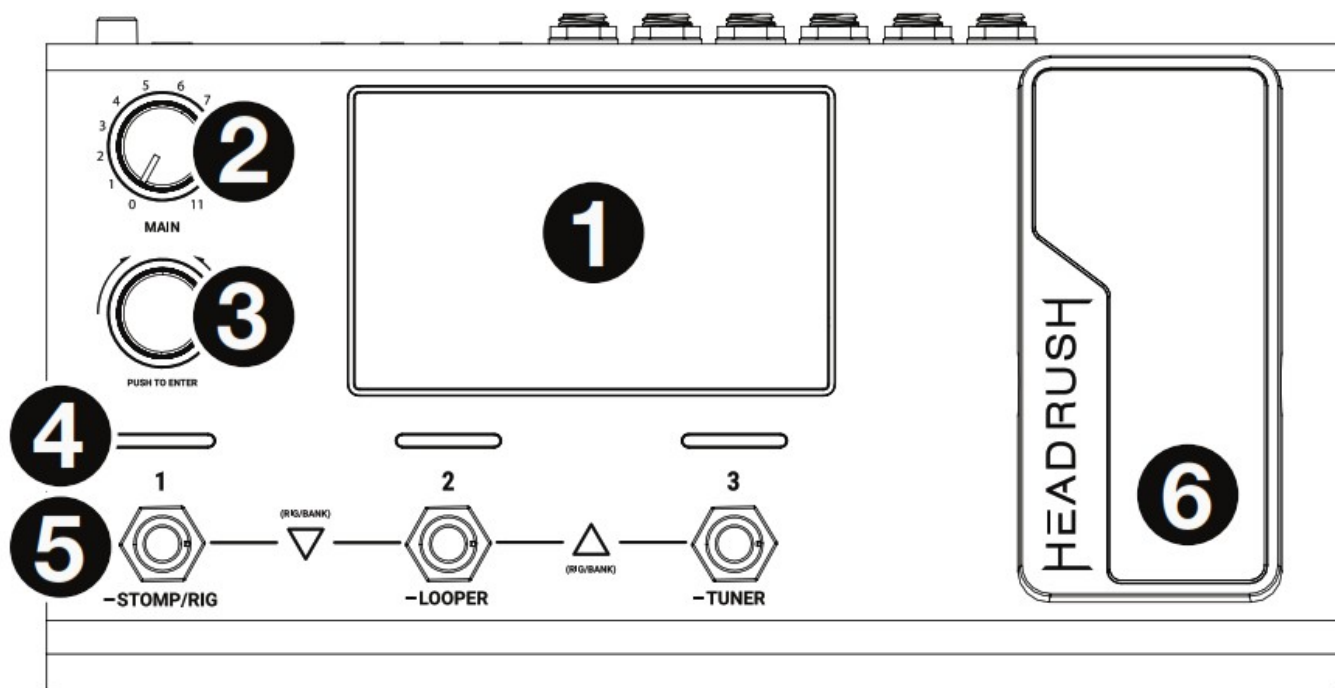
Important: Visit headrushfx.com to download the complete User Guide.

Support

For the latest information about this product (documentation, technical specifications, system requirements, compatibility information, etc.) and product registration, visit headrushfx.com. For additional product support, visit headrushfx.com/support.

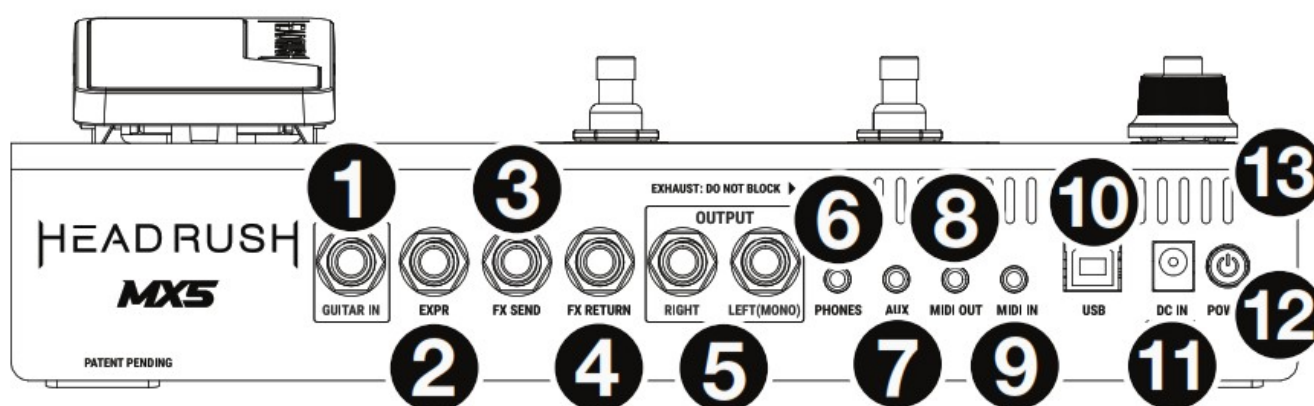
Features

Top Panel



1. Display: This full-color multi-touch display shows information relevant to HeadRush MX5's current operation. Touch the display (and use the hardware controls) to control the interface. See Basic Operation to learn how it works.
2. Main Volume: Turn this knob to adjust the volume level of the outputs.
3. Encoder: Turn this encoder to scroll through the available menu options or adjust the parameter values of the selected field in the display. Push the encoder to confirm your selection.
4. Footswitch Indicators: These lights indicate whether the stomp, rig, or scene assigned to each footswitch is on (brightly lit) or off (dimly lit).
5. Footswitches: Press these footswitches to activate or deactivate the assigned model or scene, or to load the assigned rig.
6. Expression Pedal: Use this pedal to adjust the assigned parameter/parameters. See Basic Operation > Hardware Assign > Expression Pedal for more information.

Rear Panel



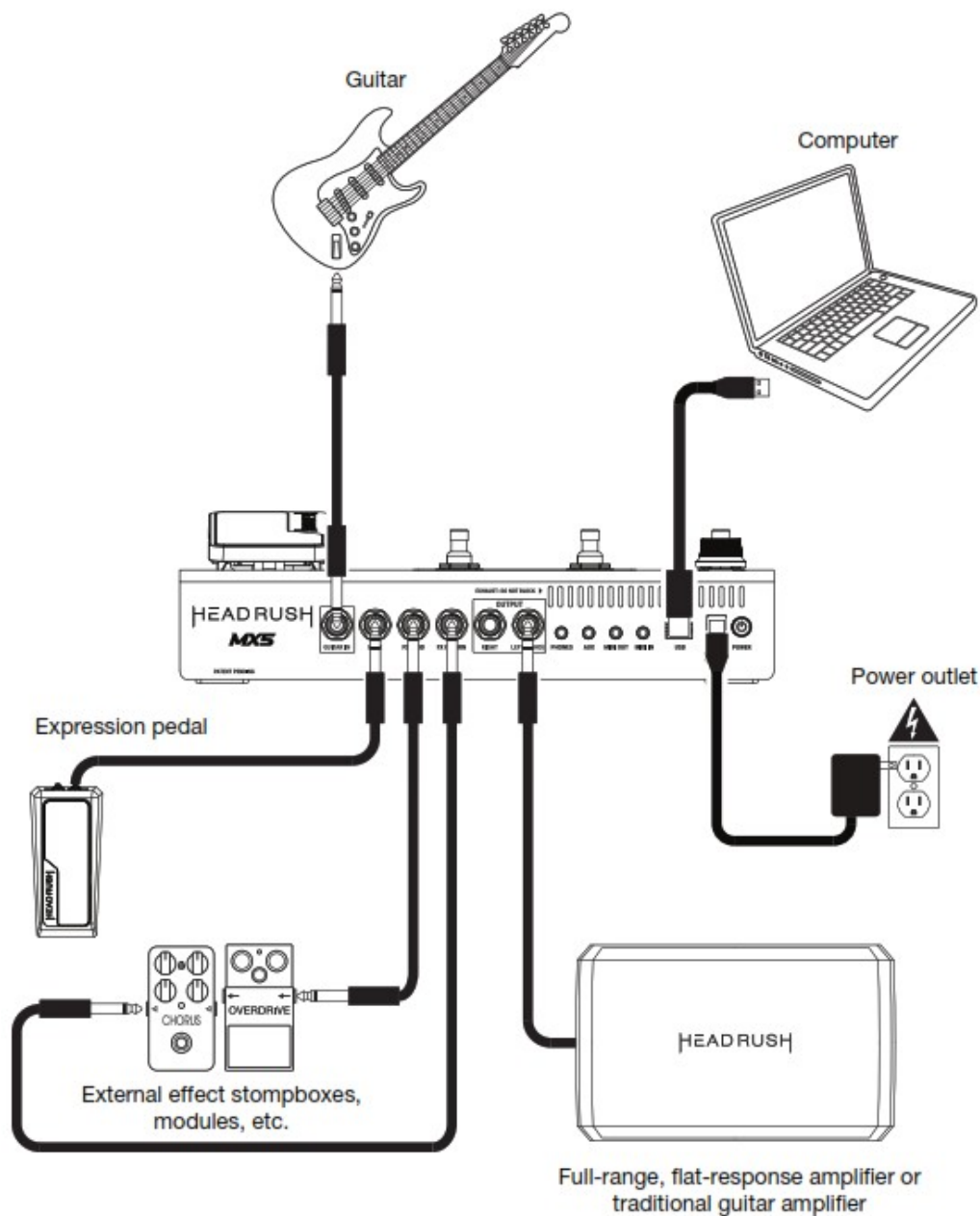
1. Guitar Input (1/4"/6.35 mm, mono): Connect your guitar to this input using a standard instrument cable.
2. Expression Pedal Input (1/4"/6.35 mm, TRS): Connect an optional additional expression pedal to this input using a standard 1/4" (6.35 mm) TRS cable.

3. FX Send Output (1/4"/6.35 mm, stereo): Connect this output to the input of another effects module, an effect pedal, or the effects loop return of an amplifier.
4. FX Return Input (1/4"/6.35 mm, stereo): Connect this input to the output of another effects module, an effect pedal, or the effects loop send of an amplifier.
Note: You can set the FX Return Input to receive signal at rack level or stomp level (default) in the Global Settings Menu.
5. Outputs (1/4"/6.35 mm, balanced): Connect these outputs to the inputs of your amplifier, audio interface, etc. If you only need to use one output, use the one labeled Left/Mono.
Note: You can set these outputs to send signal at amp level or line level (default) in the Global Settings Menu.
6. Phones Output (1/8"/3.5 mm, stereo): Connect standard 1/8" (3.5 mm) stereo headphones to this output.
7. Aux Input (1/8"/3.5 mm, stereo): Connect an optional audio source (e.g., smartphone, tablet, etc.) to this input using an 1/8"/3.5 mm stereo cable.
8. MIDI Output (1/8"/3.5 mm): Use the included 1/8"-to-MIDI adapter and a standard MIDI cable (not included) to connect this output to the MIDI input of an optional external MIDI device.
9. MIDI Input (1/8"/3.5 mm): Use the included 1/8"-to-MIDI adapter and a standard MIDI cable (not included) to connect this input to the MIDI output of an optional external MIDI device.
Important: Do not connect audio devices (e.g., headphones, monitors, etc.) to the MIDI Output or MIDI Input. Use the included 1/8"-to-5-pin adapters to connect MIDI devices only.
10. USB Port: Connect this USB port to a computer using a standard USB cable. This connection allows HeadRush MX5 to send and receive the digital audio signal to and from your computer. You can also use this connection to import or export rigs, model presets, setlists and impulse responses.
11. Power Input: Connect this input to a power outlet using the included power adapter.
12. Power Switch: Press this button to turn HeadRush MX5's power on. Press and hold this button to turn HeadRush MX5's power off.
13. Vent: Make sure this vent is unobstructed while using HeadRush MX5.

Setup

Items not listed under Introduction > Box Contents are sold separately.

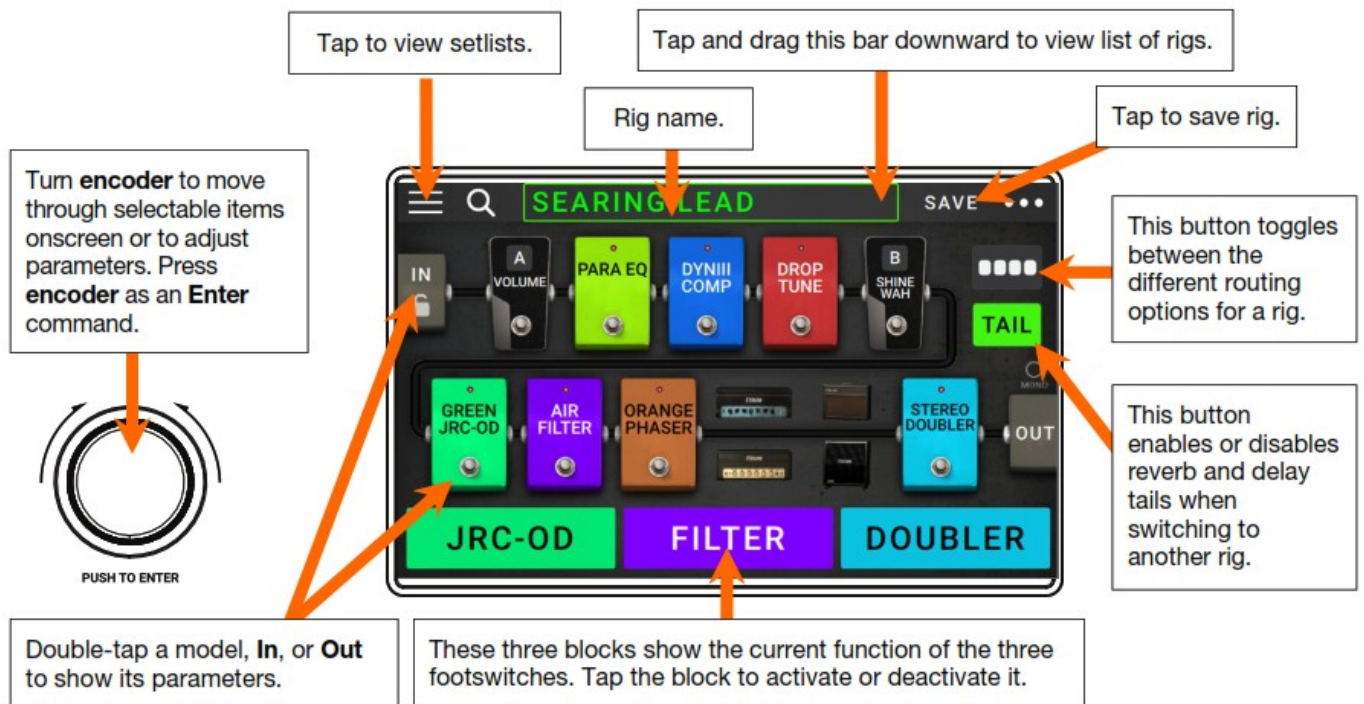
IMPORTANT! In the Global Settings Menu, make sure you set the Outputs to send signal at amp level if you are using a traditional guitar amplifier, or line level (default) if you are using a fullrange flat-response amplifier, mixer, PA speaker or audio interface.



Basic Operation

This chapter describes some of HeadRush MX5's basic functions. You can visit headrushfx.com to download the complete user guide for even more information.

Main Screen



Important: The sequence of models in your signal chain is not necessarily reflected in the footswitches. You can freely assign models to available footswitches without changing your signal chain at all—and vice versa. See Hardware Assign to learn about this.

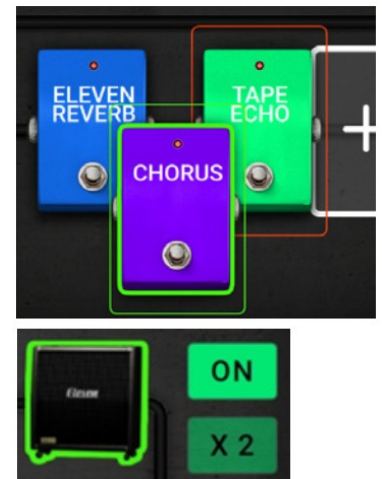
To assign a model (amp, cab, impulse response, or effect) to an empty slot, tap it (+) and then use the list that appears. See Rigs > Creating a New Rig to learn about this.

To rearrange the models in your signal chain, tap and drag a model to another slot or between two other models (the ones after that position will shift one slot further down the signal chain).

To activate or deactivate a model, press the footswitch assigned to it, or tap the model and then tap the On/Off button that appears in the top right corner.

To show a model's settings screen, double-tap it.

To load another rig (preset):



- Tap the name of the rig on the screen and then turn the encoder.
- Press footswitches 1 and 2 (▽), or footswitches 2 and 3 (△) simultaneously when MX5 is in Stomp Mode.
- Press a footswitch assigned to a preset when MX5 is in Rig Mode.
- Press a footswitch assigned to Prev Rig or Next Rig when MX5 is in Hybrid Mode.

To view other options, tap the ... button in the upper-right corner, and then tap an option.

Footswitch Modes

The three footswitches can be used to activate or bypass models (amps, cabs, impulse responses, or effects) as well as select scenes, rigs, or setlists. These footswitches are always in one of four modes: Stomp, Rig, Hybrid, or Setlist.

To change the mode, hold footswitch 1, then:

- To select Stomp mode, press footswitch 1.
- To select Rig mode, press footswitch 2.
- To select Hybrid mode, press footswitch 3.

- To select Setlist mode, hold footswitch 2.



Stomp Mode

Footswitches 1-3 correspond to models (amps, cabs, or effects) in your signal chain. Press a footswitch to activate or deactivate its model.

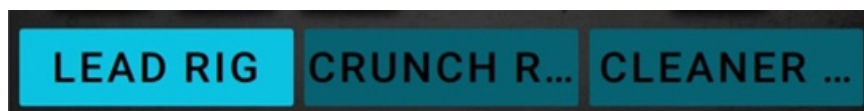


To load the previous rig, press footswitches 1 and 2 (∇) simultaneously.

To load the next rig, press footswitches 2 and 3 (\triangle) simultaneously.

Rig Mode

Footswitches 1-3 correspond to rigs you have previously saved. Press a footswitch to load its rig.



To show the previous bank of three rigs, press footswitches 1 and 2 (∇) simultaneously.

To show the next bank of three rigs, press footswitches 2 and 3 (\triangle) simultaneously.

Hybrid Mode

The first footswitch can be assigned to activate/deactivate a model or to select a scene in the currently selected rig.

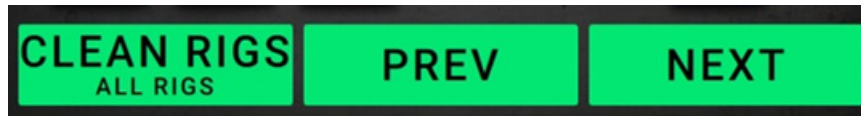


To switch to the previous rig, press footswitch 2.

To switch to the next rig, press footswitch 3.

Setlist Mode

To enter the currently shown setlist, press footswitch 1.



To show the previous setlist, press footswitch 2.

To show the next setlist, press footswitch 3.

To enter the All Rigs setlist, press and hold footswitch 1.

Rigs

While using HeadRush MX5, a rig is a preset: the combination of assigned models—the amps, cabs, impulse responses, and effects—and the parameter settings of each of them. You can create, edit, save, and load rigs, making it easy to recall the perfect sound for each part of your performance.

Each rig has 11 slots, each of which can have one model (amp, cab, or effect) assigned to it. Assigned slots will show graphical representations of the models, and empty slots will show a + symbol.

Creating a New Rig

To create a new rig, tap the ... button in the upperright corner of the screen, and tap New Rig.

To assign a model (amp, cab, or effect) to an empty slot:

1. Tap the empty slot (+).
2. In the list that appears, tap the type of model you want to assign: Amp, Cab, IR (impulse response), or effect (Distortion, Dynamics/EQ, Modulation, Reverb/Delay, FX-Loop, or Expression).
3. In the list that appears, tap the model you want to assign.
4. In the next list that appears, tap the preset you want to load for that model.

If you load an amp or cab to a slot with an empty adjacent slot, a matching amp or cab will be loaded automatically to the other slot. After that, you can configure them independently: you can separate them in the signal chain, you can change the type of the amp or cab, and you can delete each model separately.



Optimizing Your Signal Chain

The signal chain is the path that the audio signal follows from your guitar through your selected models and ends at the outputs of HeadRush MX5. You can use the touchscreen to arrange your selected models in any sequence, but you may find that some configurations will sound better than others. Here are some common model placement suggestions for creating tones with HeadRush MX5:

- Dynamics (e.g., compressors), filters (e.g., wah, pitch shifters), and volume pedals generally are placed at the beginning of the signal chain. Alternatively, you can place volume pedals at the end of the signal chain to

provide a slight variance in functionality.

- Gain-based effects (e.g., overdrive/distortion, fuzz) usually come next.
- Equalization (EQ) is often used to shape the tonal characteristics of overdrive/distortion and fuzz effects, so put an EQ after them. Alternatively, place it before them to shape the guitar's general tone—cutting unwanted frequencies—before the gain pedals.
- Modulation effects like flangers, phasers, and chorus are typically placed next.
- Time-based effects like delays and reverbs are generally placed near the end of the signal chain.
- An amp and a cab (or an amp and impulse response) are often placed at the very end of the signal chain, although you can place it wherever you want.

Saving a Rig

If you have changed the rig at all since loading it, you will see an asterisk (*) next to its name at the top of the screen. You can save these changes to this rig, save these changes as another rig, or discard them altogether.

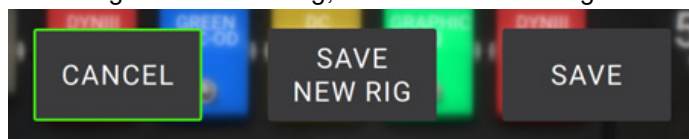
To save a rig, tap Save in the upper-right corner.

To save your changes to the current rig, tap Save.

To save your changes as a new rig, tap Save New Rig, use the keyboard that appears to enter a name, and then tap Save.

To return to the previous screen without saving, tap Cancel at any time.

To discard any changes you've made to the rig, tap the ... button in the upper-right corner, and tap Discard Changes.

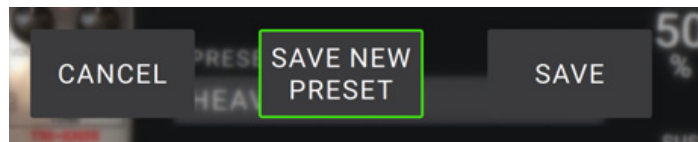


Adjusting Settings

To adjust the settings of a model in your rig, double-tap it to open its settings screen.

A detailed diagram of the 'SEARING LEAD' settings screen. The screen features a top bar with a back arrow, the title 'SEARING LEAD', and 'SAVE' and '...' buttons. Below the title is a 'PRESET' dropdown menu set to '+DEFAULT MONO'. A 'RATE' parameter is shown with a value of '0.9 Hz' and a green highlight. To the right of the rate is a 'STEREO' toggle switch set to 'OFF'. Below the rate is a 'SYNC' toggle switch set to 'OFF'. At the bottom left is a 'DELETE' button, and at the bottom right is a 'CANCEL' button. A row of seven colored squares (green, yellow, orange, red, purple, blue, cyan) is positioned between the 'DELETE' and 'CANCEL' buttons. Annotations with arrows point to various elements: 'Tap < to return to retain your changes and return to the main screen.' points to the back arrow; 'Tap this button and tap Discard Changes to discard any changes you've made since opening this screen.' points to the '...' button; 'Tap the Preset menu to select a preset.' points to the preset dropdown; 'See Saving a Preset.' points to the 'SAVE' button; 'Turn encoder to move through selectable items onscreen or to adjust parameters. Press encoder as an Enter command.' points to a circular encoder icon labeled 'PUSH TO ENTER'; 'Tap the model name to assign a different model to this slot.' points to the 'ORANGE PHASER' model name; 'Tap an Off/On parameter button to change the parameter's setting accordingly.' points to the 'STEREO' toggle; 'Tap and drag a slider left and right to adjust the parameter's settings. Alternatively, tap the slider and use the encoder for fine adjustments.' points to the 'RATE' parameter; 'Tap Delete to unassign the model from the slot.' points to the 'DELETE' button; 'Tap a color to assign it to this model. That color will be shown on the main screen, in the Hardware Assign screen, and in the footswitch indicator for this model.' points to the row of colored squares; and 'Tap Cancel to return to discard your changes and return to the main screen.' points to the 'CANCEL' button.

Saving a Preset



To save a preset, tap Save in the upper-right corner.

To save your changes to the current preset, tap Save.

To save your changes as a new preset, tap Save New Preset, use the keyboard that appears to enter a name, and then tap Save.

To return to the previous screen without saving, tap Cancel at any time.

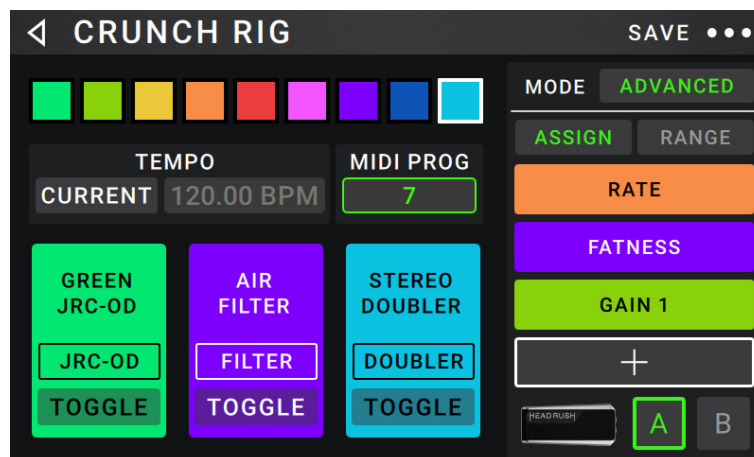
Hardware Assign

The Hardware Assign screen enables you to customize how HeadRush MX5's footswitches and an expression pedal control each rig.

To open the Hardware Assign screen, tap the **⋮** button in the upper-right corner of the main screen, and then tap Hardware Assign.

To return to the main screen, tap the **◀** button in the upper-left corner.

Important: The Hardware Assign settings are all part of the overall rig, so remember to save your changes you want to keep.



To set the color associated with the rig, tap it in the upper-left part of the screen. This color will appear next to the rig name when you view a list of all available rigs or when you view and create setlists. It will also be the color of the corresponding footswitch indicator when HeadRush MX5 is in Rig Mode.

To set the tempo of the rig's time-based effects (delays, modulation, etc.), tap the button under Tempo to select Current or Fixed.

- **Current:** The rig will use the last-used tempo or the one set by the Tempo footswitch.

To set the tempo, press the Tempo footswitch at the desired tempo 3–8 times to set the new tempo in beats per minute (BPM).

- **Fixed:** The rig will use a tempo that you set here.

To set the tempo, turn the encoder to set the desired tempo in beats per minute (BPM). You can set the tempo only in this Hardware Assign screen.


To load a rig when a MIDI program change is received from an optional external MIDI device, or to send a MIDI program change message when a rig is loaded, tap the button under MIDI, and then turn the encoder to select a MIDI program change number. You can adjust whether MIDI program changes are received and/or sent in the Global Settings menu.


Note: If a rig is using a number, that number will be unavailable and cannot be assigned to another rig. Additionally, saving a rig with a new name will save the rig but without the program change number to prevent rigs from sharing the same number.

Footswitches

The 3 boxes in the lower-left corner represent the 3 footswitches of HeadRush MX5. You can assign any switch-based parameters (ones with only two states) to any of the footswitches—regardless of their location in the signal chain.

To assign a parameter to a footswitch:

1. Tap a box.  indicates an empty box.
2. In the list that appears, tap the model with the parameter you want to assign.
3. In the list that appears, tap the parameter you want to assign. Usually, the parameter will simply be On (to activate or deactivate it).

Tap Unassigned  to unassign that footswitch.

To swap two assignments, tap and drag one of them over the other, and then release it.



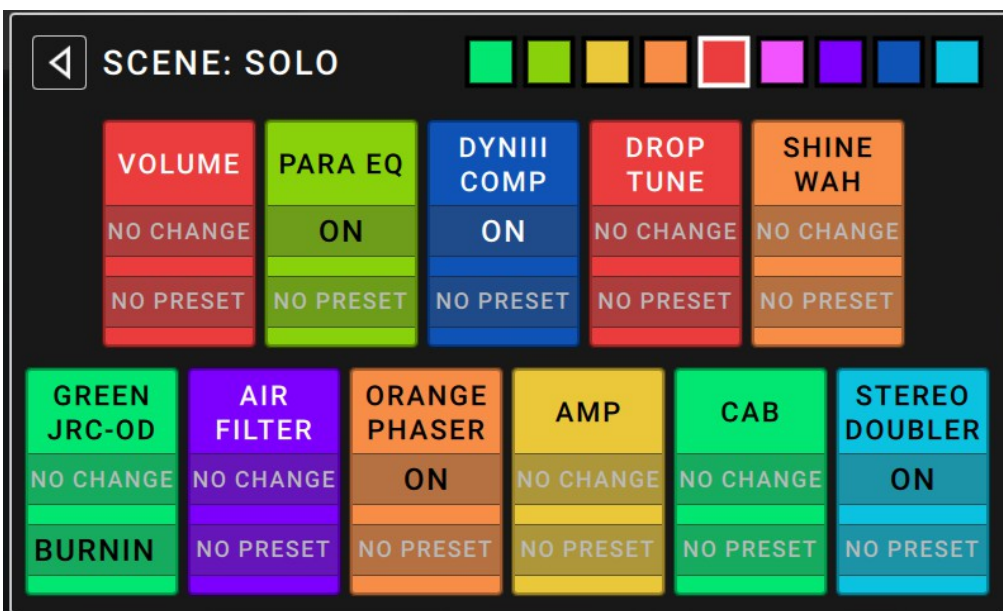
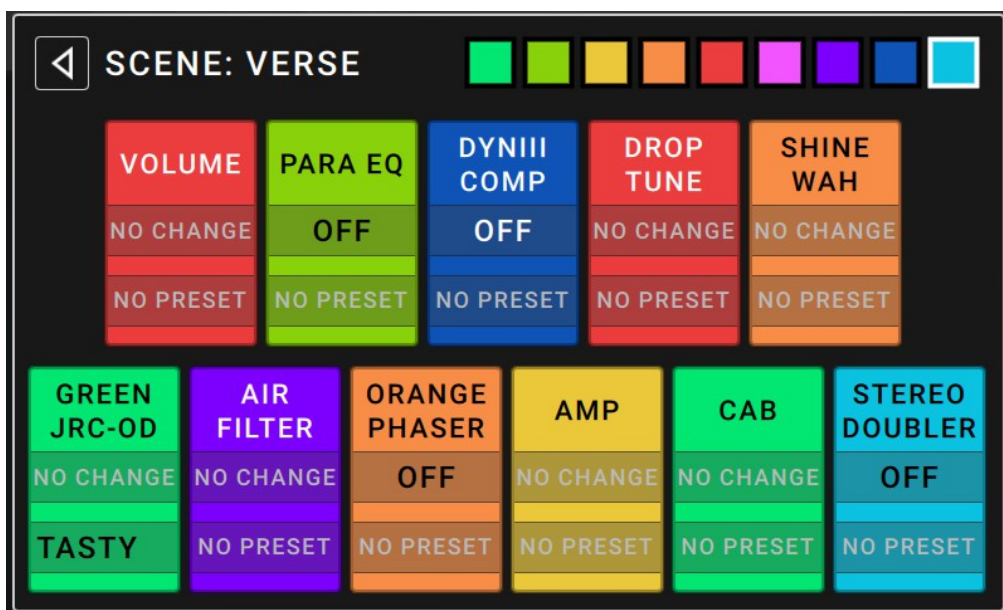
Scenes

The Scene feature allows you to turn multiple models on or off in each rig, as well as select different change model presets. When you press the footswitch assigned to that scene, all models included in that scene will turn on or off, or change to a different preset, depending on how you assign them. This is a great way to create multiple tones in the same rig. For instance, you may want a particular reverb model to be on anytime a particular distortion model is also on. Alternatively, you may want to turn one delay model off when you turn another one on. Scenes enable you to do this with only one footswitch press.

To create and edit a scene:

1. On the Hardware Assign screen, tap Toggle/Scene for the desired footswitch to cycle through the available options, and select Scene.
2. On that model, tap Edit. The Scene Editor will appear, which shows all models in your rig.
3. For each model in the rig, tap the first line of text to cycle through the available options:
 - **On:** This model will turn on when you turn the scene on.
 - **Off:** This model will turn off when you turn the scene on.
 - **No Change:** This model will remain unaffected when you turn the scene on.
4. For each model in the rig, tap the second line of text to configure a model preset to be loaded when the scene is activated.
5. Tap a color at the top of the touchscreen to select a color for the scene.

6. Tap the ◀ button in the upper-left corner to return to the Hardware Assign screen.



To rename a scene (which appears in the footswitch indicators), tap the text in the box below Edit on the model, use the virtual keyboard that appears to enter a name, and then tap anywhere other than the text field.

Expression Pedal

The expression pedal can control two parameters (in Classic Mode) or two sets of parameters (in Advanced Mode). Use the toe switch to switch between them—Expression Pedal A or B.

To activate the toe switch, move the “toe end” of the expression pedal so it touches the MX5, and then press down.

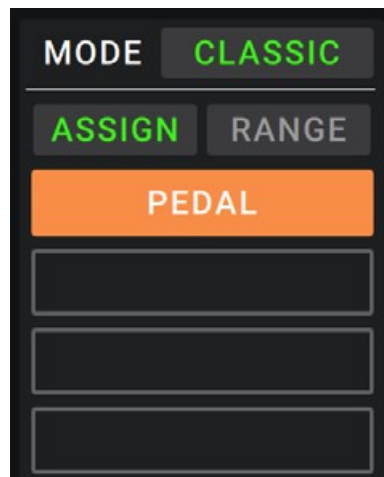
Note: When you save your rig, the current selected Expression Pedal state (A or B) will be saved and then recalled when you load the rig again.

The column of four boxes represents the expression pedal settings. You can assign one or more continuously adjustable parameters (ones with a range of values) to the expression pedal.

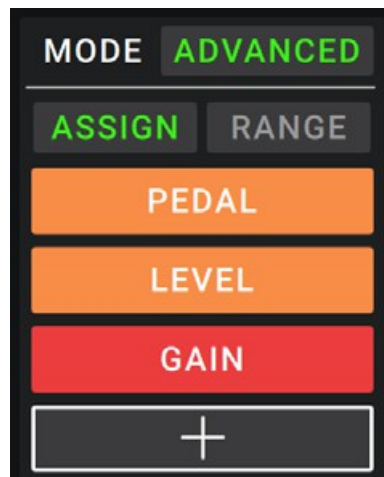
To set the expression pedal mode, tap the button above Range in the upper-right corner to select Classic or Advanced.

- **Classic:** You can assign one parameter to each expressional pedal (A and B). Using the toe switch will select

the other expression pedal and deactivate (bypass) the current expression pedal's parameter. For instance, if you assign a wah pedal to Expression Pedal A and a volume pedal to Expression Pedal B, only one of them will be active at any time; when you are controlling the wah pedal, the volume pedal will be bypassed, and vice versa.

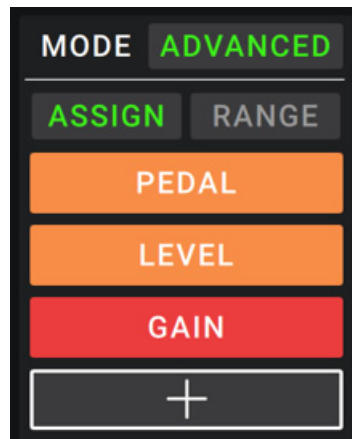


- **Advanced:** You can assign up to four parameters to each expression pedal (A and B). Moving the pedal will adjust all of its assigned parameters simultaneously. Using the toe switch will select the other expression pedal and leave the current pedal's parameters active and at their maximum values.



To assign a parameter to the expression pedal:

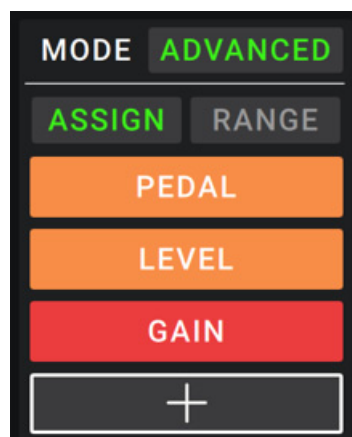
1. If the Assign button is not on, tap it.
 2. Tap a box under the Assign button. **+** indicates an empty box.
 3. In the list that appears, tap the model with the parameter you want to assign.
 4. In the list that appears, tap the parameter you want to assign.
- Tap Unassigned **X** to unassign that box.



To swap two assignments (while in Advanced Mode), tap and drag one of them over the other, and then release it.

To set the range of an assigned parameter:

1. If the Range button is not on, tap it.
2. Tap a value under the Range button.
3. Turn the encoder to set the desired value as a percentage of the parameter's entire range. Press the encoder or tap elsewhere to confirm the value.



Setlists

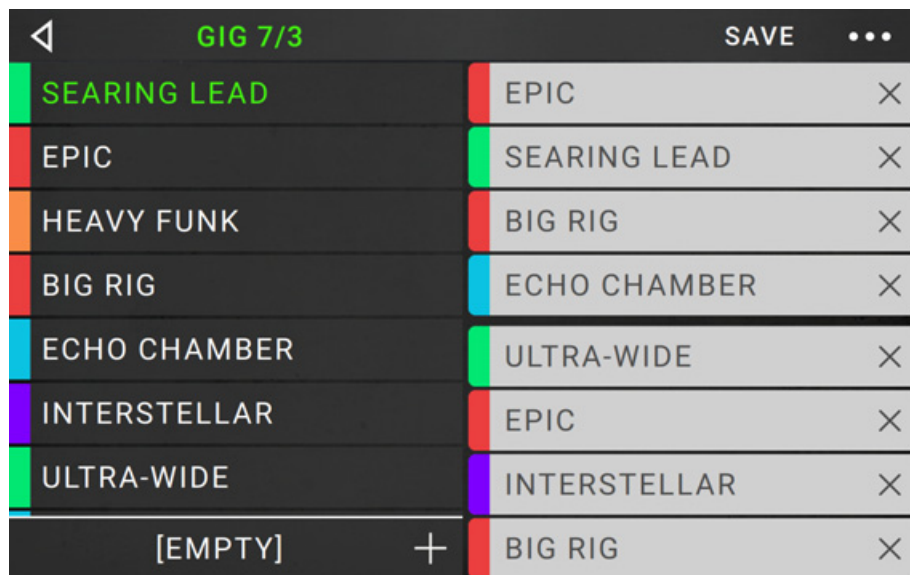
You can use setlists to organize your rigs. A setlist is a saved collection of rigs, which you can save and recall at a later time. This is useful, for instance, if you only need some of your rigs for a performance; you can save a setlist of just those rigs so you don't have to spend time searching through all of your rigs before playing the next song.


To view your setlists, tap the ≡ button in the upper-left corner of the main screen. The Setlists screen will appear. To return to the main screen, tap the ◀ button in the upper-left corner.

To create a setlist:


1. Tap New in the upper-right corner.
2. In the screen that appears, the left half is a list of all available rigs, and the right half is the list of rigs in the setlist.

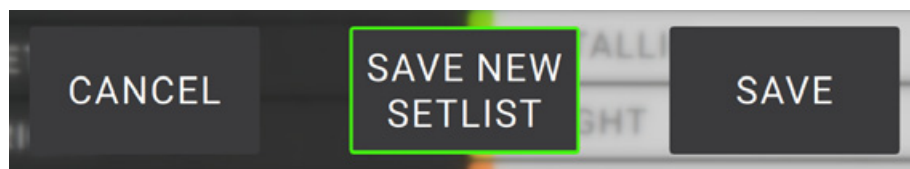
To add a rig to the setlist, tap it to add it to the end of the list. Alternatively, tap and hold it, and then drag it to the desired location in the list.



You can add the same rig to a setlist more than once. The [Empty ] rig in the lower-left corner is a slot to use as a placeholder to make rearranging the setlist easier; it will not be available as a selectable rig when moving through rigs in the setlist.

To rearrange the setlist, tap and hold a rig in the list on the right half, and then drag it to the desired location in the list.

To remove a rig from the setlist, tap the  on its right edge.




To save a setlist, tap Save in the upper-right corner.


To save your changes to the current setlist, tap Save.

To save your changes as a new setlist, tap Save New Setlist, use the keyboard that appears to enter a name, and then tap Save.

(At any time) To return to the previous screen without saving, tap Cancel.

To discard any changes you've made to the setlist, tap the  button in the upper-left corner, and tap Discard Changes.

To load a setlist:

1. While viewing the main screen, tap the  button in the upper-left corner to view the Setlists screen. Each setlist will show the number of rigs in parentheses (including multiple instances of the same rig).
2. Tap the desired setlist. The first rig of that setlist will load immediately. Tap All Rigs to view all rigs instead of a specific setlist.

◀	🔍	SETLISTS	NEW	...
★		ALL RIGS		(14)
...		GIG 1/24 2ND SET		(12)
...		GIG 7/3		(8)
...		RECORDING 4/2		(4)
...		JAM 2/1		(6)
...		GIG 1/24 1ST SET	(10)	/
...		JAM 1/19		(6)
...		REHEARSAL 5/11		(10)

To edit a setlist, tap the ... button on its left side, and then tap the pencil icon. You will see the same screen you used to create the setlist, where you can edit and save it.

To delete a setlist, tap the ... button on its left side, and then tap the trash can icon. Tap Yes to confirm the deletion or Cancel to return to the Setlists screen without deleting it.

Hands-Free Mode

Hands-Free Mode enables you to adjust any of the settings on your models by using just the footswitches and expression pedal.

To enter Hands-Free Mode, press and hold footswitch 1 to enter the mode select page, and then press and hold footswitch 1 again.

To increase or decrease the value shown, move the expression pedal.

To decrease the value shown in small increments, press footswitch 1 and 2 (▼) simultaneously.

To increase the value shown in small increments, press footswitch 2 and 3 (▲) simultaneously.



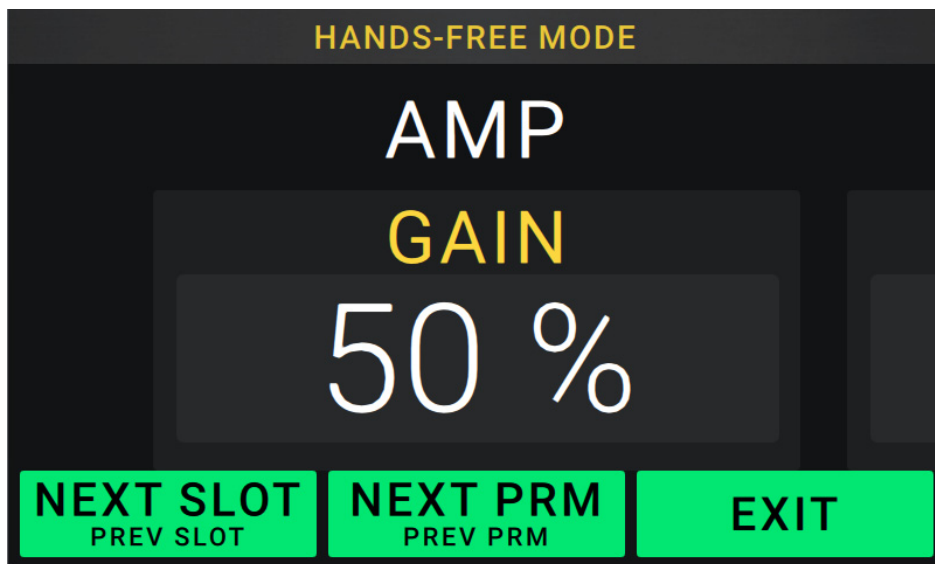
To edit the next model in your rig, press footswitch 1.

To edit the previous model in your rig, hold footswitch 1.

To show the next parameter for the shown model, press footswitch 2.

To show the previous parameter for the shown model, hold footswitch 2.

To exit Hands-Free Mode, press footswitch 3.



Tuner/Tempo

You can use the Tuner/Tempo page to tune your guitar and set a tempo for time-based effects.

To enter Tuner/Tempo mode, press and hold footswitch 3 for over one second. While in

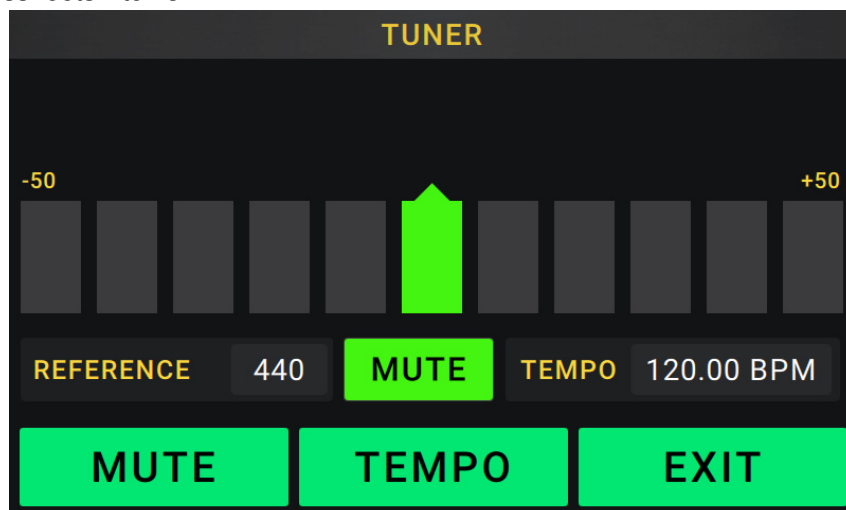
Tuner/Tempo Mode, the screen to the right is shown.

To change the tuner reference pitch, tap the parameter and then turn the encoder.

To unmute your signal while tuning, press footswitch 1.

To enter a tempo via tapping a footswitch, press footswitch 2 at the desired tempo 3–8 times to set the tempo in beats per minute (BPM).

To exit this page, press footswitch 3.

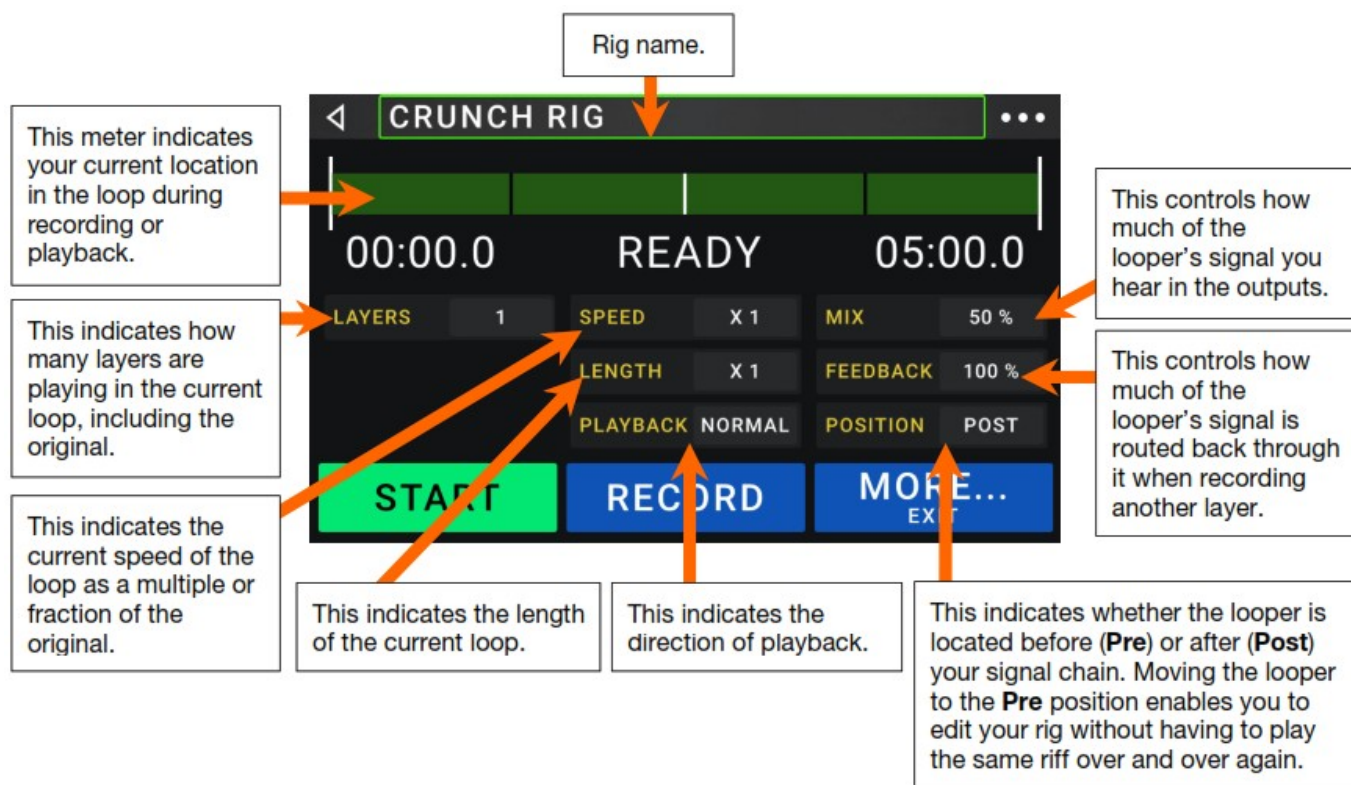


Tip: You can also assign Tap Tempo to a footswitch within a rig on the Hardware Assign page.

Looper

The HeadRush MX5 has a built-in looper that you can use to layer your performances. While the looper's operation is shown in the display, you can control most of it conveniently with the footswitches.

The looper can hold up to 20 minutes of audio at a time across a maximum of 50 layers. The first layer of your loop can be up to 5 minutes long.



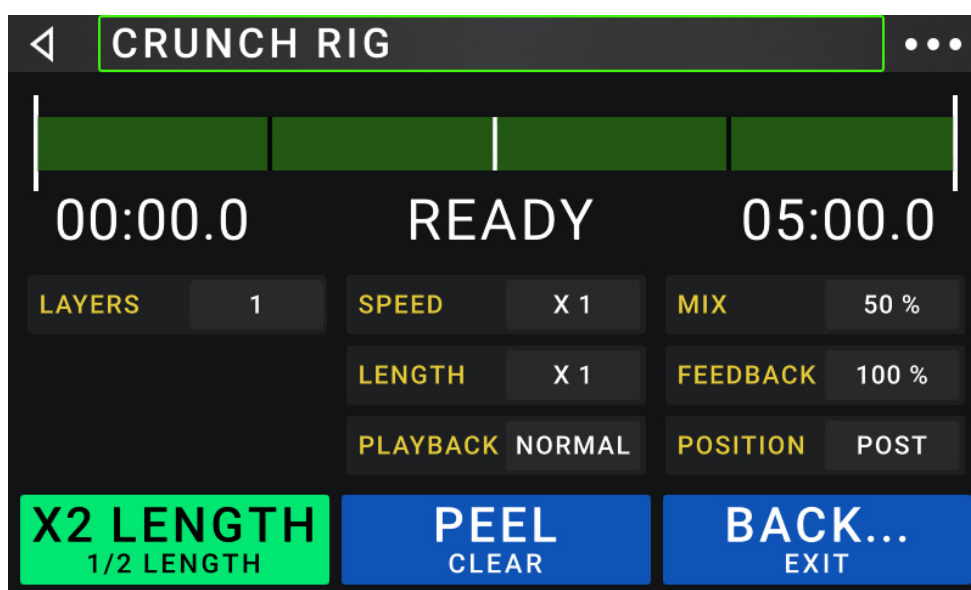
To record the first layer of a loop, press the Record footswitch. Recording will begin immediately and the footswitch indicator will light red. Press the Record footswitch again to stop recording and start loop playback. The footswitch is now called Overdub and the footswitch indicator is yellow.

To record additional layers onto the loop (overdub), press the Overdub footswitch.

Overdubbing will begin immediately and the footswitch indicator will light red. Press the Overdub footswitch again to stop overdubbing and continue playback.

To start or stop the loop, press the Start footswitch while the loop is stopped, or press the Stop footswitch while the loop is playing.

To access additional footswitch controls in the looper (Length, Peel, Clear), press the More... footswitch. You can press this footswitch again to return to the initial set of controls.



To double the length of the loop, press the Length footswitch or tap the button next to the Length field and then turn the encoder clockwise.

To halve the length of the loop, hold the Length footswitch or tap the button next to the Length field and then turn the encoder counterclockwise. The halving process is non-destructive, so you can restore your original loop and its content by doubling the length of the loop.

To erase the top-most (last-added) layer of the loop, press the Peel/Clear footswitch. The top-most layer of the loop will be erased immediately. This process is destructive, so you can't re-add it later.

To clear the full loop, press and hold the Peel/Clear footswitch. This process will stop playback and is destructive, so you can't re-add it later.

To halve or double the speed of the looper, tap the button next to the Speed field and then turn the encoder.

Tip: Use this to create low bass lines or ultra-high guitar parts that you couldn't ordinarily play.

To reverse looper playback, tap the button next to the Playback field and then turn the encoder.

Tip: Create eerie effects by recording layers in reverse then switching back to normal playback.

To set the looper's location, tap the button next to the Playback field and then turn the encoder to place it before (Pre) or after (Post) the signal chain. Moving the looper to the Pre position enables you to edit your rig without having to play the same riff over and over again.

To exit the looper and return to the main screen, press and hold the Exit footswitch. If the looper is playing, playback will continue.

To re-enter the looper, press and hold the Looper footswitch again.

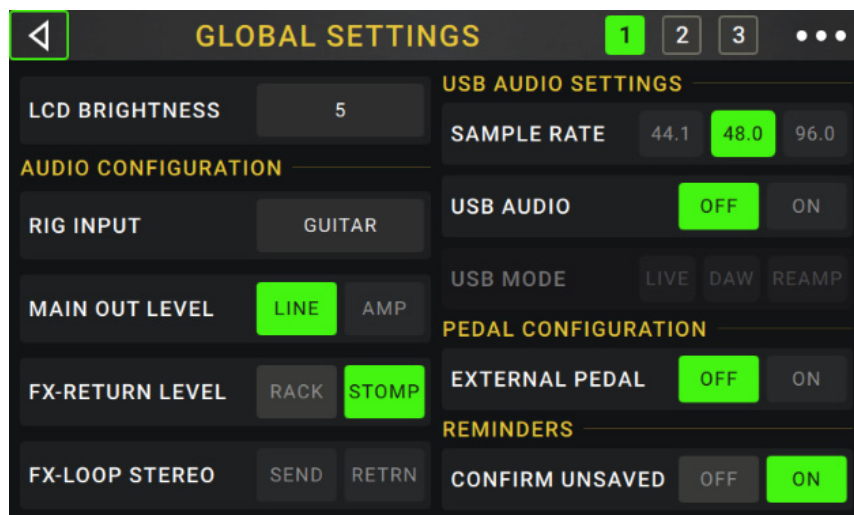
Tip: Use this feature to create different effect configurations (adjust parameters, activate/deactivate models, etc.) for each layer, creating a multi-textured performance. You can also switch rigs while using the looper and use a different rig for each layer.

Global Settings

Use the global settings to configure the HeadRush MX5's overall operation.

To show the global settings, tap the **...** button in the upper-right corner of the screen, and tap Global Settings.

To select each page of the global settings, tap the number at the upper-right corner of the screen.



LCD Brightness: This setting determines the brightness of the main display. Tap this field, turn the encoder to select 1 (dim) through 5 (bright), and then press the encoder.

Audio Configuration:

Rig Input: This setting determines whether each rig's input signal is taken from the Guitar Input (Guitar) or the left (L) Return Input (FX Ret L). When set to Per Rig, the source is determined by the Rig Input setting of each rig in the Input block. When set to FX Ret L or Per Rig, the FX-Loop Stereo Return setting will be disabled; the signal will be mono.

Main Out Level: This setting determines the signal level sent to the main Outputs (1/4"/6.35 mm, TRS). When set to Line, the output level will be +18 dBu. Use this setting if you are connecting the HeadRush MX5 to a full-range, flat-response amplifier, PA speaker, mixer, or audio interface. When set to Amp, the output level will be +6 dBu. Use this setting if you are connecting the HeadRush MX5 to a traditional guitar amplifier.

FX Return Level: This setting determines the signal level received by the FX Return Input (1/4"/6.35 mm, TRS). When set to Rack, the output level will be line level, +18 dBu. Use this setting if you are connecting a rack effects

processor in the HeadRush MX5's FXLoop. When set to Stomp, the output level will be +6 dBu. Use this setting if you are connecting a traditional guitar pedal ("stompbox") in the FX-Loop.

FX-Loop Stereo: These settings determine whether the incoming and outgoing signal in the effects loop is stereo or mono. Tap Send to enable or disable the stereo signal for the Send Outputs. Tap Return to enable or disable the stereo signal for the Return Inputs.

USB Audio Settings:

Note: Download the complete HeadRush MX5 User Guide from headrushfx.com to learn more about configuring your DAW.

Important note for Windows users: Before connecting the Headrush MX5 to your computer, download and install the necessary drivers from headrushfx.com/support.

Sample Rate: This setting determines the sample rate of the USB audio signal: 44.1 kHz, 48.0 kHz or 96.0 kHz. Remember to select the same sample rate as the one in your DAW. Also, set it before opening your DAW.

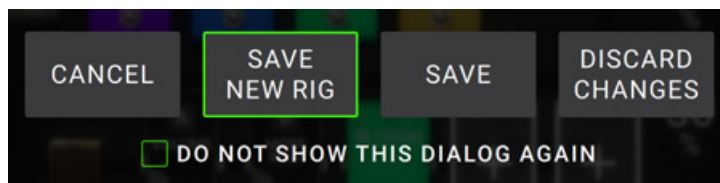
USB Audio: This setting determines whether or not HeadRush MX5 is sending a USB audio signal over a USB connection. Tap On to enable sending of the USB audio signal with the selected Sample Rate. Tap Off to disable the USB audio signal. (To change the Sample Rate, set USB Audio to Off first, select the correct sample rate, set USB Audio to On again, and restart your DAW.)

USB Mode: This setting determines how the HeadRush MX5 sends its audio signal over the USB connection and how its outputs function while doing so:

- **Live:** The audio signal will be sent to your computer as well as to the HeadRush MX5's outputs.
- **DAW:** The audio signal will be sent to your computer only. The HeadRush MX5's outputs will be disabled to prevent any latency while monitoring.
- **Reamp:** Your computer will send an audio signal to the HeadRush MX5, which will process it through the current rig and send it back to your computer. The HeadRush MX5's outputs will be disabled to prevent any latency while monitoring.

Pedal Configuration:

External Pedal: This setting determines whether or not you are using an external expression pedal with the HeadRush MX5.



- Tap On to use the built-in expression pedal to control the parameter/parameters of Bank A while your external expression pedal controls the parameter/parameters of Bank B. (If you are using the expression pedal's Classic Mode, pressing the toe switch will activate or deactivate the parameter. If you are using Advanced Mode, the toe switch will be disabled entirely.)
- Tap Off to disable the expression pedal input and use the built-in expression pedal only.

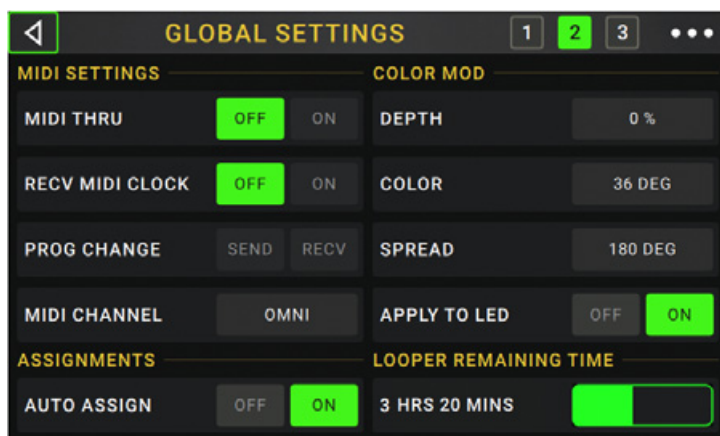
Reminders:

Confirm Unsaved: This setting determines whether or not you will see a confirmation message if you change the rig while there are unsaved changes on the current one. Tap On to enable these messages or Off to disable them. Alternatively, tap Do not show this dialog again in the message itself to disable them.

MIDI Settings: These settings determine how the HeadRush MX5 sends and receives MIDI information to and from external devices.

These settings affect only the HeadRush MX5's MIDI input or MIDI output.

MIDI Thru: Tap On to use the MIDI output as a MIDI throughput; any MIDI information sent to the HeadRush MX5's MIDI input will be sent directly to the MIDI output. Tap Off to use the HeadRush MX5's MIDI output normally; the HeadRush MX5 will be able to send its own MIDI information out of the MIDI output.



Recv MIDI Clock: Tap On to enable the HeadRush MX5 to receive MIDI clock information. Tap Off to use the HeadRush MX5's own internal MIDI clock (which will not be sent out).

Prog Change: Tap Send to enable or disable the HeadRush MX5's transmission of MIDI program change messages when you load a rig. Tap Recv to enable or disable the HeadRush MX5's reception of MIDI program change messages from an external MIDI device.

MIDI Channel: This setting determines the MIDI channel(s) that the HeadRush MX5 will send and receive MIDI messages. Tap this field, turn the encoder to select all channels (Omni), or 1–16, and then press the encoder.

Assignments:

Auto Assign: This setting determines how models are assigned to the switches. Tap On if you want models to be automatically assigned to the next available switch when you load them. Tap Off if you want models to load without being assigned to a switch; you will have to assign them manually in the Hardware Assign screen.

Looper Remaining Time:

This meter shows the estimated remaining looping time.

Color Mod:

If you have trouble distinguishing certain colors on your MX5's display or if you just want to further customize the color scheme, you can use the color mod parameters to adjust their default settings. While experimenting with the settings, a sample of your adjustments will be shown in real time. If you want to return to the default color scheme, the default settings are as follows:

Depth: 0%

Color: 36 DEG

Spread: 180 DEG

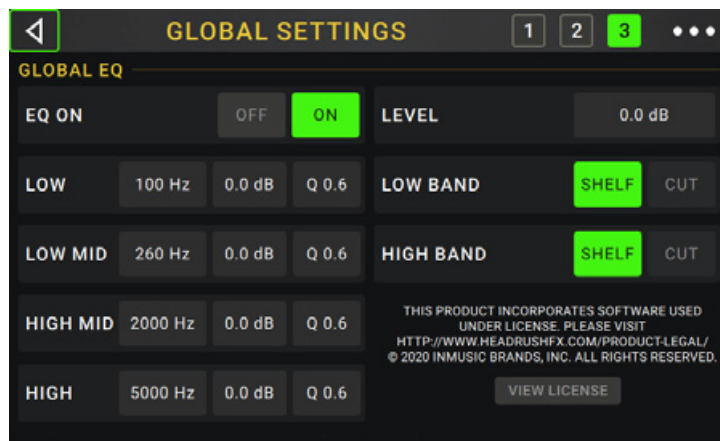
Apply to LED: ON

Note: The Color Mod feature is disabled when the Screen Lock feature is enabled.

Global EQ:

These settings on Page 3 determine if/how equalization is applied for your outputs. This equalizer is a four-band parametric equalizer.

Tip: These settings are especially useful when a venue, rehearsal space, etc. has different acoustic characteristics than the room where you originally created your presets (e.g., the venue may sound “boomier,” or a rehearsal space with soundproofing may deaden some of the high end). This page lets you quickly apply some additional equalization to all of your presets without permanently saving them.



EQ On: This setting determines whether equalization is enabled (On) or disabled (Off) for the outputs.

Level: This setting determines if/how much the outputs' audio signal level is boosted or cut. This value is applied the level set by the Master knob.

Low Band & High Band: These settings determine what type of equalization is applied to the lowest-frequency band (Low Band) and to the highest-frequency band (High Band):

Shelf or Cut.

Low, Low Mid, High & High Mid: The three settings for each of these four frequency bands determine the shape of the equalization:

The first setting (Hz) determines the center frequency of the low-frequency band, low-mid-frequency band, high-frequency band, or high-mid-frequency band.

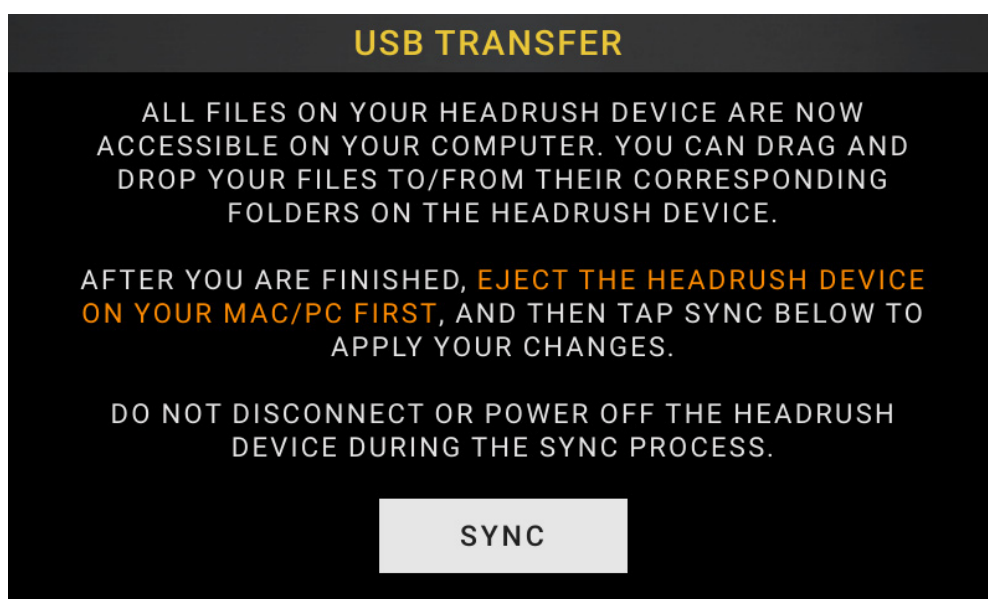
The second setting (dB) determines how much the equalizer boosts or cuts the signal at the corresponding frequency band.

The third setting (Q) determines the width of the frequency band. The higher the setting, the wider the band will be around the center frequency (the first setting). This setting is applied whether Low Band or High Band is set to Shelf or Cut.

Transferring Files & Settings

Over a USB connection, you can transfer rig, setlist, model preset, loop, and/or impulse response (IR) files between your computer and the HeadRush MX5.

We recommend creating a backup copy of your files to your computer before you make any changes.



Important:

Do not disconnect or power off the HeadRush MX5 during the process.

Any unsupported files will be ignored.

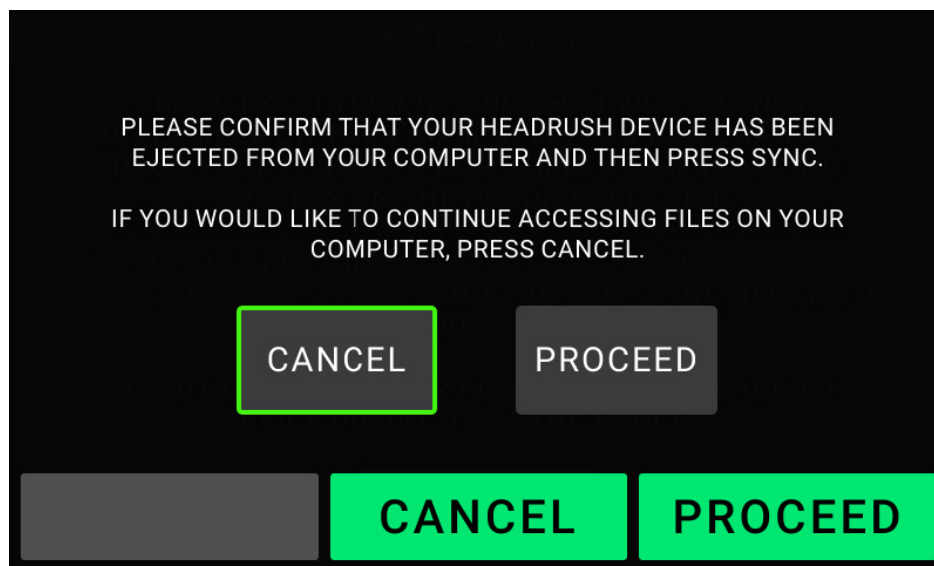
You cannot transfer a folder or .zip/archive folder to/from HeadRush MX5. Instead, transfer any supported files

directly.

We recommend organizing the file structure of your rigs, setlists, model presets, and/or impulse response files on your computer so that it's identical to the file structure as shown on the HeadRush MX5 "drive."

To transfer files between the HeadRush MX5 and your computer:

1. Connect your computer to the HeadRush MX5's USB port using a standard USB cable.
2. With your computer powered on, power on the HeadRush MX5 using the power switch.
3. Tap the **•••** button in the upper-right corner of the screen and then tap Global Settings.
4. In the Global Settings screen, tap the **•••** button in the upper-right corner of the screen, and tap USB Transfer.
On your computer, the HeadRush MX5 will appear as a mass-storage device called HeadRush.
Windows users: If this is the first time you've connected it to this computer, you may need to wait a minute while it installs the class-compliant drivers.
5. Open the HeadRush drive. You can now freely click and drag contents between HeadRush and your computer.
Note that any changes you make to the contents of your HeadRush are immediate and cannot be cancelled.
6. **IMPORTANT:** When you are finished transferring contents, you must unmount/eject the HeadRush drive from your computer. File corruption may occur if the drive is not properly ejected before continuing.
7. After the drive has been ejected, tap Sync on your HeadRush MX5 to "commit" any changes you made to the contents of the HeadRush drive. An additional prompt will appear to confirm you have ejected the drive. Tap Proceed to continue or Cancel to continue accessing files on your computer. As the HeadRush MX5 analyzes and imports the files, a meter on the display will indicate its progress. The normal Global Settings screen will reappear when the process is finished. Do not disconnect or power off HeadRush MX5 during the sync process.



Firmware Update Instructions

1. Connect the USB port on your HeadRush device to your computer, and ensure HeadRush device and your computer are powered on.
2. On your HeadRush device, tap the **•••** icon in the upper-right corner, and tap Global Settings.
3. In the Global Settings screen, tap the **•••** icon in the upper-right corner again, and tap Firmware Update. In the screen that appears, tap OK to continue. After restarting, the screen will show Update at the bottom edge.
4. Open the HeadRush Updater application for your operating system—Windows or macOS. (You can download the latest updater application from headrushfx.com)

- When the updater window appears, click Update HeadRush. Do not disconnect or power off the HeadRush device or your computer until the update is completed.
- When the update is completed, the updater window will display Done, and your HeadRush device will restart. Click Done to close the updater window.
- Confirm your Headrush device is using the latest firmware—tap the ••• icon in the upperright corner, and tap Global Settings. The firmware version will appear at the bottom of the screen.

Appendix

Technical Specifications


Footswitches	(3) footswitches with color LEDs
Knobs	(1) 300° master volume knob (1) 360° navigation/data encoder
Display	(1) full-color LED-backlit display with touch interface 4" / 102 mm (diagonal)
Connectors	(1) 1/4" (6.35 mm) mono input (guitar) (1) 1/4" (6.35 mm) TRS input (expression pedal) (1) 1/4" (6.35 mm) stereo output (send) (1) 1/4" (6.35 mm) stereo input (return) (2) 1/4" (6.35 mm) balanced output (main) (1) 1/8" (3.5 mm) stereo output (headphones) (1) 1/8" (3.5 mm) stereo input (auxiliary device) (1) 1/8" (3.5 mm) MIDI output (1) 1/8" (3.5 mm) MIDI input (1) USB Type-B port (1) DC power adapter input
Power	Connection DC power adapter input
	Input Voltage 12 VDC, 3.0 A, center-positive
Dimensions (width x depth x height)	11.6" x 5.9" x 2.75" 295 x 150 x 70 mm
Weight	3.46 lbs. 1.57 kg

Specifications are subject to change without notice.

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Documents / Resources

	<p>HEADRUSH MX5 Ultra Portable Amp Modeling Guitar Effect Processor [pdf] User Guide MX5 Ultra Portable Amp Modeling Guitar Effect Processor, MX5, Ultra Portable Amp Modeling Guitar Effect Processor, Portable Amp Modeling Guitar Effect Processor, Guitar Effect Process or, Effect Processor, Processor, MX5 Ultra Portable Amp Modeling Guitar Effect Processor</p>
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References

- [Cutting Edge Guitar Processors and Speakers | HeadRush FX](#)
- [Support : HeadRush](#)