

HEAD RUSH

P E D A L B O A R D

User Guide

English

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Introduction

Your Perfect Tone is Just a Touch Away

Thank you for purchasing the HeadRush Pedalboard!

Featuring a finely tuned quad-core DSP system and powered by its exclusive Eleven® HD Expanded platform, the HeadRush Pedalboard delivers the most versatile, realistic-sounding and responsive amplifier, cabinet, microphone and effects models ever found in a floorboard guitar effects processor.

The HeadRush Pedalboard delivers a new generous and diverse offering of classic vintage and modern amp and effects models, including exclusive original boutique effects that can't be found anywhere else, as well as the ability to load your own custom impulse response (IR) files. There are also exclusive features that can't be found on any other guitar processor, including gapless preset-switching with delay/reverb tail spillover, a looper with up to 20 minutes of record time, the ability to peel off loop layers in the reverse order they were added, and much more.

The heart of the HeadRush Pedalboard is the 7-inch touch display and its guitarist-oriented user interface, enabling you to touch, swipe, and drag-and-drop to instantly create and edit your rigs in an unprecedented realistic and intuitive way. The large display also gives ultra-clear feedback when performing live, especially when making slight changes to your tone using the Hands-Free Mode.

Oh. One more thing. This one goes to 11.

Box Contents

HeadRush Pedalboard

USB Cable

Power Cable

Software Download Card

Quickstart Guide

Safety & Warranty Manual

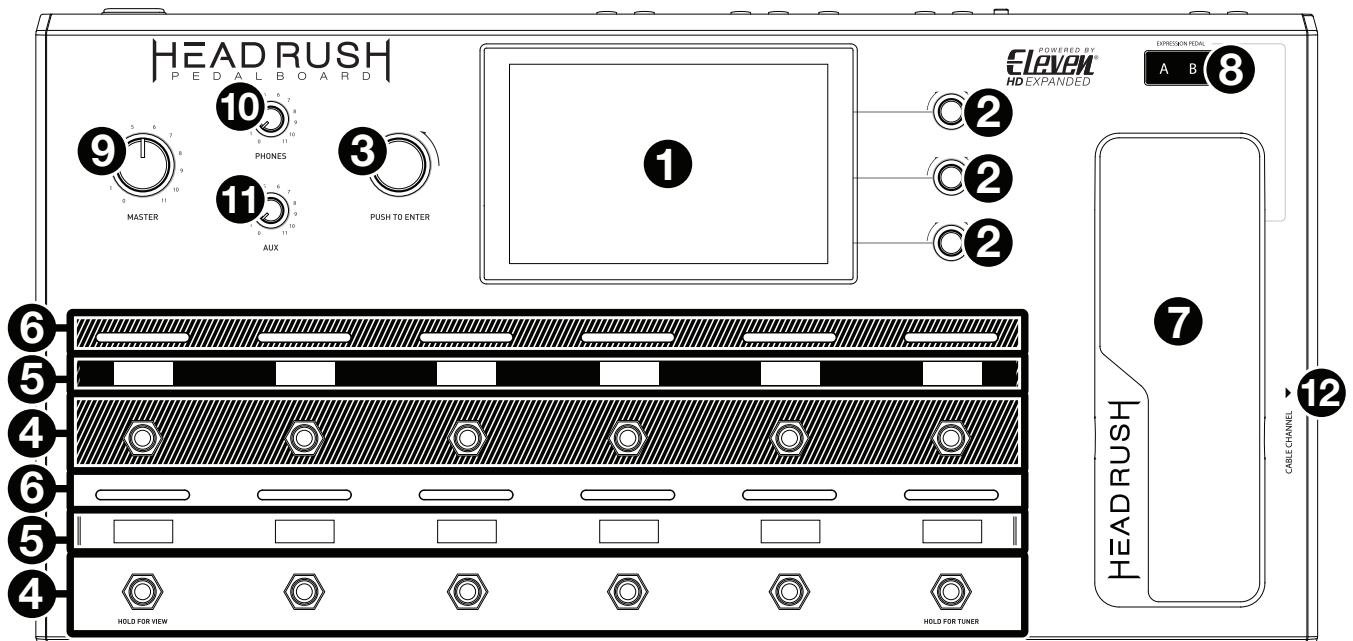
Support

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

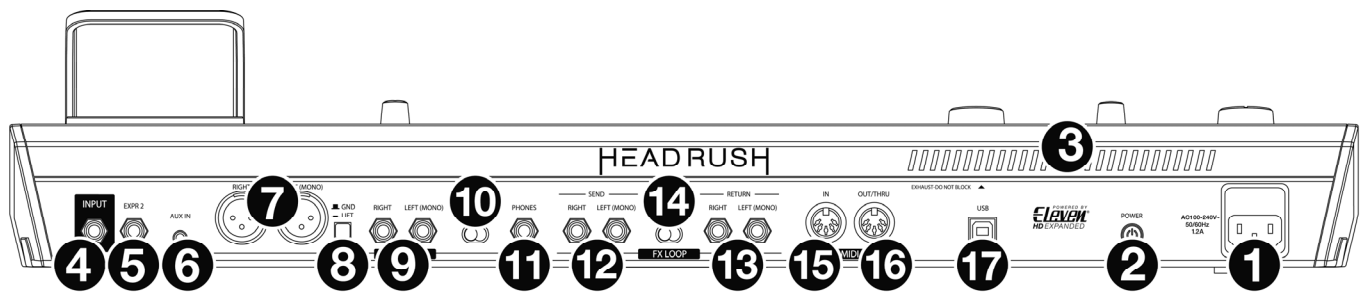


1. **Main Display:** This full-color multi-touch display shows information relevant to the HeadRush Pedalboard's current operation. Touch the display (and use the hardware controls) to control the interface. See [Operation > Main Screen](#) to learn how it works.
2. **Parameter Knobs:** Turn these knobs to adjust the parameters or settings shown next to them in the main display.
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. **Footswitches:** Press these footswitches to activate or deactivate the assigned model, load the assigned rig, enter the tuner, change the View (see [Operation > Views](#)), enter Hands-Free Mode (see [Operation > Hands-Free Mode](#)), or change the tempo of the current rig.
5. **Footswitch Displays:** These display strips indicate the model, rig, setlist, assignment, control, or available selections assigned to each footswitch.
6. **Footswitch Indicators:** These lights indicate whether the model or rig assigned to each footswitch is on (brightly lit) or off (dimly lit).
7. **Expression Pedal:** Use this pedal to adjust the assigned parameter/parameters. See [Operation > Hardware Assign > Expression Pedal](#) for more information.
8. **Expression Pedal Status LED:** These LEDs indicate the current status of the expression pedal. See [Operation > Hardware Assign > Expression Pedal](#) for more information.
9. **Master Volume:** Turn this knob to adjust the volume level of the **outputs**.
10. **Phones Volume:** Turn this knob to adjust the volume level of the **phones output**.
11. **Aux Volume:** Turn this knob to adjust the volume level of the **aux input**.

Important: The audio signal from the aux input is routed directly to the outputs of the HeadRush Pedalboard without any modeling applied. It is also unaffected by the master volume or phones volume knobs.

12. **Cable Channel:** Place your cables under and through this indent on the underside of the HeadRush Pedalboard to keep your stage clutter-free and prevent people from tripping over cables.

Rear Panel



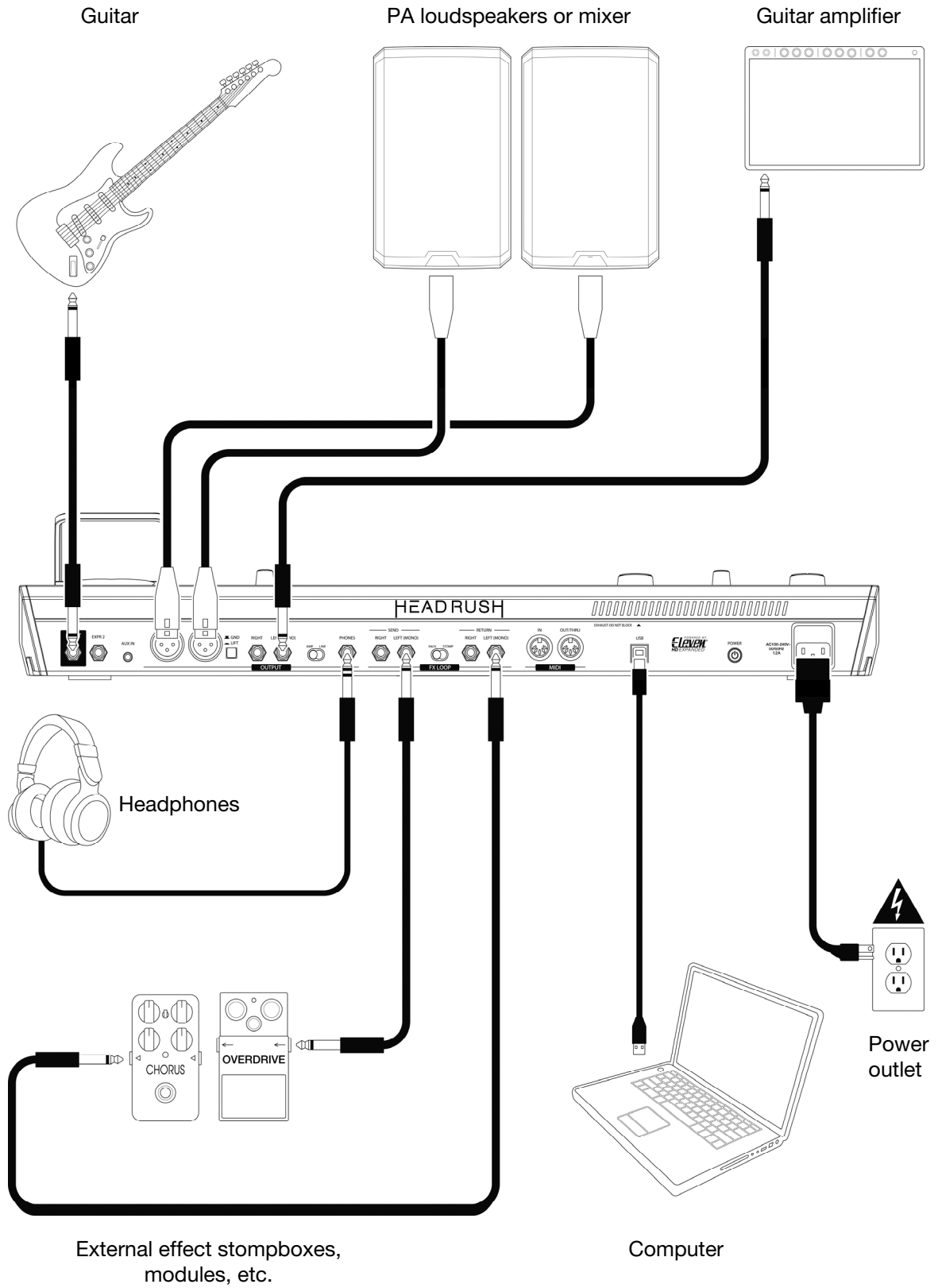
1. **Power Input** (IEC): Connect this input to a power outlet using the included power cable.
2. **Power Switch**: Press this button to turn the HeadRush Pedalboard's power on. Press and hold this button to turn the HeadRush Pedalboard's power off.
3. **Vent**: Make sure this vent is unobstructed while using the HeadRush Pedalboard.
4. **Guitar Input** (1/4"/6.35 mm, TS): Connect your guitar to this input using a standard instrument cable.
5. **Expression Pedal Input** (1/4"/6.35 mm, TRS): Connect an optional secondary expression pedal to this input using a standard instrument cable.
6. **Aux Input** (1/8"/3.5 mm, TRS): Connect an optional audio source (e.g., smartphone, tablet, etc.) to this input using a 1/8"/3.5 mm stereo cable.
7. **Outputs** (XLR): Connect these outputs to the inputs of your mixer, active loudspeaker, etc. If you only need to use one output, use the one labeled **L/Mono**. If you hear any hum or noise in the signal from these outputs, try using the **ground-lift switch**.
8. **Ground-Lift Switch**: Engage (depress) this switch to reduce hum or noise in the signal from the **XLR outputs**.
9. **Outputs** (1/4"/6.35 mm, TRS): Connect these outputs to the inputs of your amplifier, audio interface, etc. Set the **Amp/Line selector** to the setting appropriate for the connected device. If you only need to use one output, use the one labeled **L/Mono**.
10. **Amp/Line Selector**: Use this switch to select the level of the signal sent from the 1/4"/6.35 mm outputs only. When set to **Amp**, the output level will be +6 dBu for a standard guitar amplifier. When set to **Line**, output level will be line-level, +18 dBu.
11. **Phones Output** (1/4"/6.35 mm, TRS): Connect standard 1/4" (6.35 mm) stereo headphones to this output. Use the **phones volume** knob to control the volume level.
12. **Send Outputs** (1/4"/6.35 mm, TRS): Connect these outputs to the inputs of another effects module, an effect pedal, or the effects loop return of an amplifier. Set the **Rack/Stomp selector** to the setting appropriate for the connected device. If you only need to use one output, use the one labeled **L/Mono**. Use the **FX-Loop Stereo** setting in the Global Settings screen to determine whether the output signal will be mono or stereo (see [Operation > Global Settings > Audio Configuration](#) for more information).
13. **Return Inputs** (1/4"/6.35 mm, TRS): Connect these inputs to the outputs of another effects module, an effect pedal, or the effects loop send of an amplifier. Set the **Rack/Stomp selector** to the setting appropriate for the connected device. If you only need to use one output, use the one labeled **L/Mono**. Use the **FX-Loop Stereo** setting in the Global Settings screen to determine whether the output signal will be mono or stereo (see [Operation > Global Settings > Audio Configuration](#) for more information).
14. **Rack/Stomp Selector**: Use this switch to select the level of the signal sent from the **send outputs** to the return inputs of an external device (e.g., effects rack unit, effect pedal, etc.). When set to **Rack**, output level will be line-level, +18 dBu. When set to **Stomp**, the output level will be +6 dBu like a standard guitar pedal ("stompbox").

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15. **MIDI Input** (5-pin DIN): Use a standard MIDI cable to connect this input to the MIDI output of an optional external MIDI device.
16. **MIDI Output/Throughput** (5-pin DIN): Use a standard MIDI cable to connect this output to the MIDI input of an optional external MIDI device. You can set this output to be a standard MIDI output or MIDI throughput (see [Operation](#) > [Global Settings](#) > [MIDI Settings](#) for more information).
17. **USB Port**: Connect this USB port to a computer using a standard USB cable. This connection allows the HeadRush Pedalboard 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 response (IR) files. This connection is also used to update the firmware.

Setup

Items not listed under [Introduction > Box Contents](#) are sold separately.



Operation

This chapter describes the HeadRush Pedalboard's functions.

Main Screen

Overview

The diagram illustrates the HeadRush Pedalboard interface with the following callouts:

- Tap to search for rigs by name.** (Points to the search icon)
- Tap to view setlists.** (Points to the menu icon)
- Tap and drag this bar downward to view list of rigs.** (Points to the top bar)
- Rig name.** (Points to the rig name "001 SEARING LEAD")
- Tap to save rig.** (Points to the "SAVE" button)
- Tap for more options.** (Points to the three-dot menu icon)
- Turn encoder to move through selectable items onscreen or to adjust parameters. Press encoder as an Enter command.** (Points to a rotary encoder icon with the text "PUSH TO ENTER")
- Double-tap a model, In, or Out to show its parameters.** (Points to the "IN" button)
- Tap its footswitch to activate or deactivate it.** (Points to the footswitch of the "8-BIT CRUSH" model)
- Turn the parameter knobs to adjust these parameters. When a model is selected, tap anywhere in this column to show the next three parameters.** (Points to the parameter knobs on the right side)

The interface shows a rig named "001 SEARING LEAD" with the following components and parameters:

- IN** (Input)
- A VOLUME** (Volume knob)
- PARA EQ** (Parametric EQ)
- GRAY COMP** (Compressor)
- GREEN JRC-OD** (Overdrive)
- B SHINE WAH** (Wah)
- DRIVE 100%** (Drive parameter)
- HI TONE 73%** (Hi Tone parameter)
- FLANGER** (Flanger)
- 8-BIT CRUSH** (Crusher)
- AIR FILTER** (Filter)
- STEREO DOUBLER** (Stereo Doubler)
- LEVEL 75%** (Level parameter)
- OUT** (Output)

Basic Operations

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, or effect) **to an empty slot**, tap it (+) and then use the list that appears. See [Rigs > Creating a Rig](#) to learn about this.

To show a model's parameters on the right edge of the screen, tap the model so it is outlined in green. You can then turn the **parameter knobs** to adjust the parameters to their left. Tap anywhere in the column of those three parameters to show the next three (if the model has more than three parameters).

When no model is selected, these parameters will be ones that you assign in the [Hardware Assign](#) screen.

To show a model's settings screen, double-tap it. Its settings screen will appear with its preset menu, parameters, and assigned color.

To activate or deactivate a model, press the **footswitch** assigned to it, or tap the model's footswitch in the **display**.

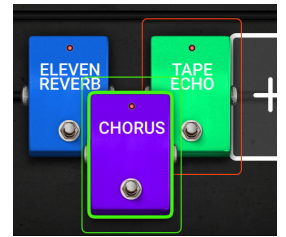
To switch an amp and/or cab between a dual and single configuration, tap the **2X** button next to it.

To load another rig (preset), do any of the following:

- Press the upper-left (**Rig ▲**) or lower-left (**Rig ▼**) **footswitch** to load the previous or next rig immediately.
- Tap the name of the rig on the screen, and then tap the ◀ or ▶ next to it.
- Tap the name of the rig on the screen and then turn the **encoder**.
- Tap the **magnifying-glass icon** in the upper-left corner, and use the virtual keyboard that appears to enter a search term (e.g., part of the rig name). The results will appear below. Tap a result to load that rig.

To create a new rig, tap the ●●● button in the upper-right corner, and then tap **New Rig**.

To delete the current rig, tap the ●●● button in the upper-right corner, and then tap **Delete Rig**, and then tap **Yes** to continue or **No** to cancel.

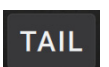


To rearrange the models in your signal chain, tap and drag a model to another slot or between two other models (the ones after that position will shift one slot further down the signal chain).

Reverb/Delay Tail Spillover

If you have a reverb or delay effect active on your rig and then switch to a different rig, the reverb or delay will continue to decay after switching to the second rig.

This feature is unavailable if you are using an effects loop or if you are using USB audio.



To enable or disable this feature for the current rig, tap **Tail** on the main screen. Alternatively, press and hold the upper-left (**Rig ▲**) footswitch for one second.

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Signal Path

You can easily reconfigure the path of your signal chain to split, creating more complex routings.

To reconfigure the signal path, tap **■■■■** at the bottom of the main screen. The icon will change to match the current signal path as shown below.



■■■■ This straight signal path is the default and the most common.



■■■■ This signal path splits in the middle and rejoins near the end. This configuration is useful if you want to use two types of effects (or chains of effects) but want to keep their signals separate.

See [Adjusting Settings > Parameters > Mix](#) to learn how to mix the split paths together.



■■■■ This signal path splits immediately from the source and rejoins near the end. Like the second configuration, this one is useful for using two types of effects (or chains of effects) independently, but it allows for more models in the split paths and the rejoined one.

See [Adjusting Settings > Parameters > Mix](#) to learn how to mix the split paths together.

Stereo vs. Mono

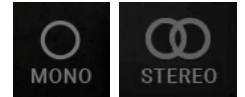
The outgoing signal from the HeadRush Pedalboard can be mono or stereo, depending on the models in your rig, the signal path, and which outputs you are using. An indicator near the end of the signal path indicates the current configuration.

The signal will be **stereo** if you do any **one** of the following:

- Use any stereo effect model in your signal chain. Even if you have placed mono effect models after it. (This is possible because the mono effect is simply applied identically to both channels and not summed.)
- Use a split signal path, even if the split paths rejoin before the output.
- Use a double-amp and/or double-cab configuration (i.e., if **2X** is **on**).

The signal will be **mono** if you do **all** of the following:

- Use no stereo effect models in your signal chain.
- Use the linear (not split) signal path.
- Use only single-amp and single-cab configurations, if you use an amp or cab model at all.



Alternatively, the signal will be mono if you do any one of the following:

- Use only the **L/Mono output** (of a stereo pair) on the rear panel.
- Reduce the **Rig Width** output setting to **0%**.

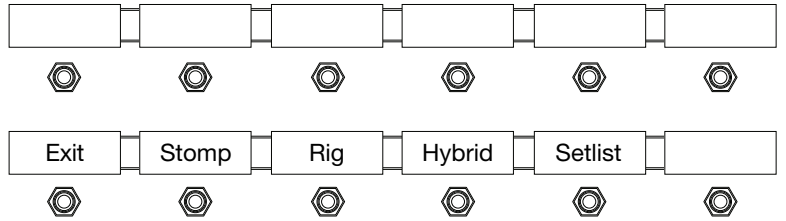
To adjust the width of the stereo field, tap the **Out** icon at the end of your signal path, and turn the third **parameter knob** to adjust the **Rig Width** output setting. This affects stereo signals only, not mono signals. **100%** uses the full stereo field, while **0%** produces a mono signal.

Views

The eight middle footswitches can be used to activate or bypass models (amps, cabs, or effects) as well as select rigs or setlists. These footswitches are always in one of four views: **Stomp View**, **Rig View**, **Hybrid View**, and **Setlist View**.

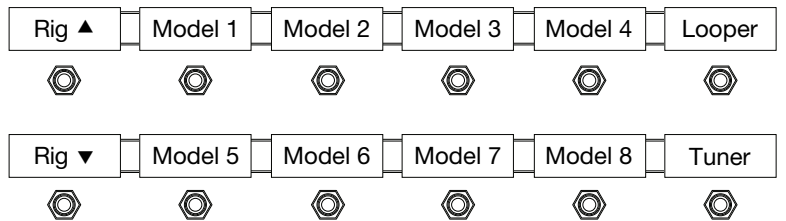
To change the view:

1. Press and hold the lower-left footswitch until **Exit** appears in its display. The adjacent four footswitches now correspond to the four views: **Stomp**, **Rig**, **Hybrid**, and **Setlist**.
2. Press a **footswitch** to enter that view.



Stomp View

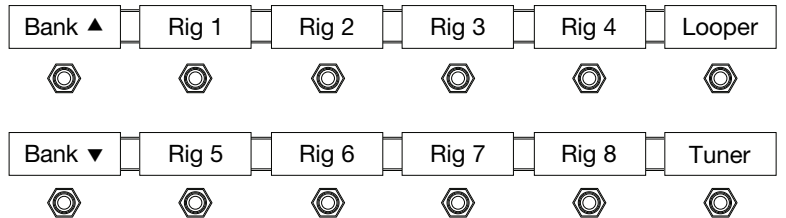
The middle eight footswitches correspond to models (amps, cabs, or effects) in your signal chain. Press a footswitch to activate or deactivate its model.



Rig View

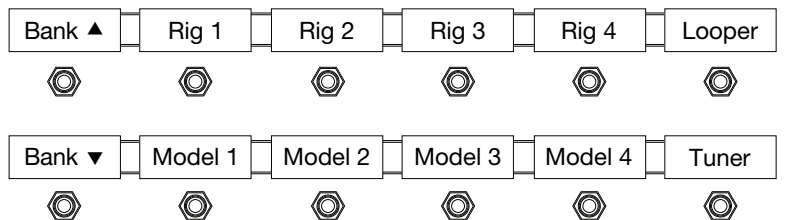
The middle eight footswitches correspond to rigs you have saved. Press a footswitch to load its rig.

To show the previous or next four rigs, press the upper-left (**Bank ▲**) or lower-left (**Bank ▼**) footswitch.



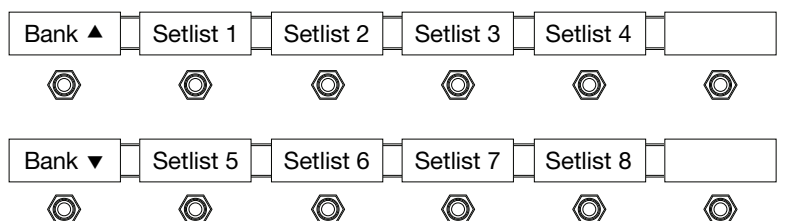
Hybrid View

The upper middle four footswitches correspond to rigs you have saved. Press one of these footswitches to load its rig. The lower middle four footswitches correspond to models (amps, cabs, or effects) in your signal chain. Press one of these footswitches to activate or deactivate its model.



Setlist View

The middle eight footswitches correspond to setlists you have saved. Press a footswitch to load its setlist.



Rigs

While using the HeadRush Pedalboard, a **rig** is a preset: the combination of assigned **models**—the amps, cabs, 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. An exception is when a slot is using an amp and/or cab in a dual configuration (when the **2X** button next to it is enabled).

Assigned slots will show graphical representations of the models, and empty slots will show a **+** symbol.

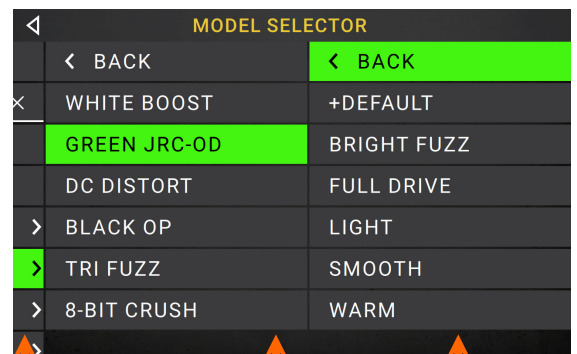
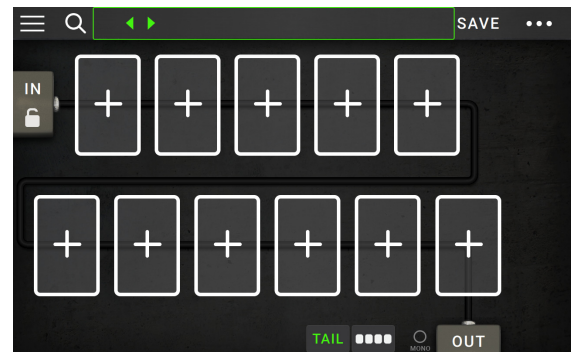
Creating a New Rig

To create a new rig, tap the **•••** button in the upper-right 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**, or effect (**Custom IR**, **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, the first selectable cab or amp 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.



Model types: amps, cabs & effects

Available presets for each model.

Available models for each type.

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 the HeadRush Pedalboard. 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 great rigs with the HeadRush Pedalboard:

- 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** 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 made certain changes to a rig, you will see an asterisk (★) next to its name at the top of the screen, indicating that you have changed the rig in some way and may want to save it.

001 SEARING LEAD*

You will see an asterisk if you have done any of the following:

- assigned a model to the rig
- deleted a model from the rig
- moved a model in the signal chain
- changed a model's preset (see [Adjusting Settings](#) to learn more)
- made any change in the Hardware Assign screen (see [Hardware Assign](#) to learn more)

Activating or deactivating a model, using the parameter knobs on any screen, or using the expression pedal on any screen will **not** cause the asterisk to appear.

You can save these changes to this rig, save these changes as another rig, or discard them altogether.

If the asterisk is shown and you try to load a different rig, you will be asked to select one of these options:

Cancel: This option returns to the previous screen without saving the current rig or loading a new rig.

Discard Changes: This option loads a new rig without saving any changes to the previous rig.

Save as a New Rig: This option lets you save the current rig as a new rig. In the screen that appears, use the keyboard that appears to enter a name, and then tap **Save**. That rig will be saved, and the new rig will load.

Save Changes to Rig: This options saves any changes you made to the rig and then loads the new rig.

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 rename a rig, tap the ●●● button in the upper-right corner, and then tap **Edit Rig Name**.

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

Deleting a Rig

To delete the current rig, tap the ●●● button in the upper-right corner, and then tap **Delete Rig**, and then tap **Yes** to continue or **No** to cancel.

Adjusting Settings

To adjust the settings of an item in your rig, double-tap it to open its settings screen. You can adjust the settings of any model (amp, cab, or effect), the input (the **In/Lock** icon), the output (the **Out** icon), or mix (the **Mix** icon).

Overview

The screenshot shows the settings screen for the '020 SCARED ROBOT' model. The interface includes a back arrow, a 'SAVE' button, and a menu icon. The main content area features a 'PRESET' dropdown menu currently set to 'SCARY', a row of seven colored buttons (green, yellow, orange, red, purple, blue, cyan), and buttons for 'ORANGE PHASER', 'DELETE', and 'CANCEL'. On the right side, there are three parameter knobs: 'RATE 2.1 Hz', 'STEREO ON', and 'SYNC OFF'. Three physical encoder knobs are shown on the right side of the screen, with arrows pointing to them from the callout boxes.

Tap < to return to retain your changes and return to the main screen.

Tap this button and tap **Discard Changes** to discard any changes you've made since opening this screen.

Tap the **Preset** menu to select a preset. See [Saving a Preset](#).

Turn encoder to move through selectable items onscreen or to adjust parameters. Press encoder as an **Enter** command.

PUSH TO ENTER

Tap the model name to assign a different model to this slot.

Tap **Delete** to unassign the model from the slot.

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.

Tap **Cancel** to return to discard your changes and return to the main screen.

Turn the **parameter knobs** to adjust their parameters. Tap anywhere in this column to show the next three parameters (if any).

Parameters

These are some of the parameters that you can adjust for each type of item in a rig. This includes amps, cabs, effects, input settings, output settings, and mix settings (if you are using a split signal path). See [Saving a Preset](#) to learn how to save your preset after adjusting its parameters.

Amp

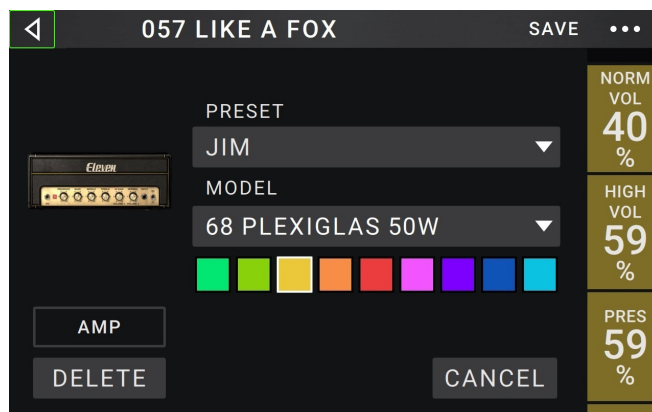
The Amp category is a list of popular guitar amplifiers.

Preset: This is the current amp preset, which includes the model, all of its settings, and its color assignment.

Model: This is the amp model.

Amp Settings: These are the settings for the selected amp model (different models may have more or fewer settings).

Color: This is the assigned color, which will appear in the Hardware Assign screen and the switch indicator if the amp is assigned to a switch.



Cab

The Cab category is a list of popular amp cabinets, which contain the speakers. The HeadRush Pedalboard recreates not only the sound of the cabinet but also the type of microphone recording it.

Preset: This is the current cab preset, which includes the model, all of its settings, and its color assignment.

Cab Type: This is the cab type. Numbers notated as X indicate the number of speakers it has and the size of each speaker (e.g., **2X12** denotes a cab with two 12-inch speakers, **4X10** denotes a cab with four 10-inch speakers). Numbers notated as W indicate the emulated wattage (output power) of the speaker.

Mic Type: This is the type of microphone being used on the cab. You can select different models of dynamic (**Dyn**), condenser (**Cond**), or ribbon (**Ribbon**) microphones.

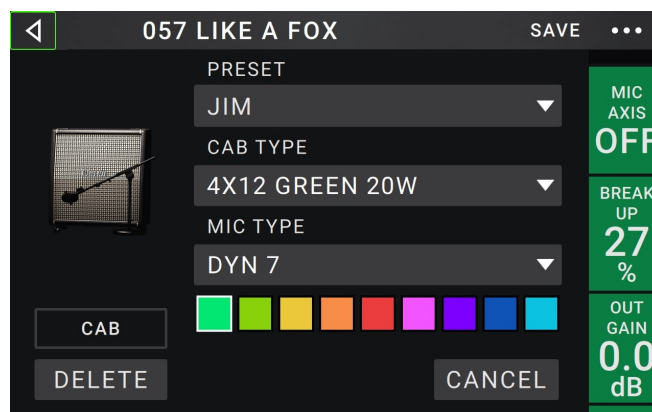
Mic Settings: These are the settings for the microphone:

Break Up: This determines the amount of speaker “breakup”—the natural distortion that occurs when the audio signal overdrives the speaker.

On-Axis: This determines the microphone position relative to the cab. On-axis placement (**On**) positions the microphone at the center of the speaker, usually resulting in a brighter sound with more definition. Off-axis placement (**Off**) is slightly offset at an angle from the center of the speaker and often sounds darker in tone.

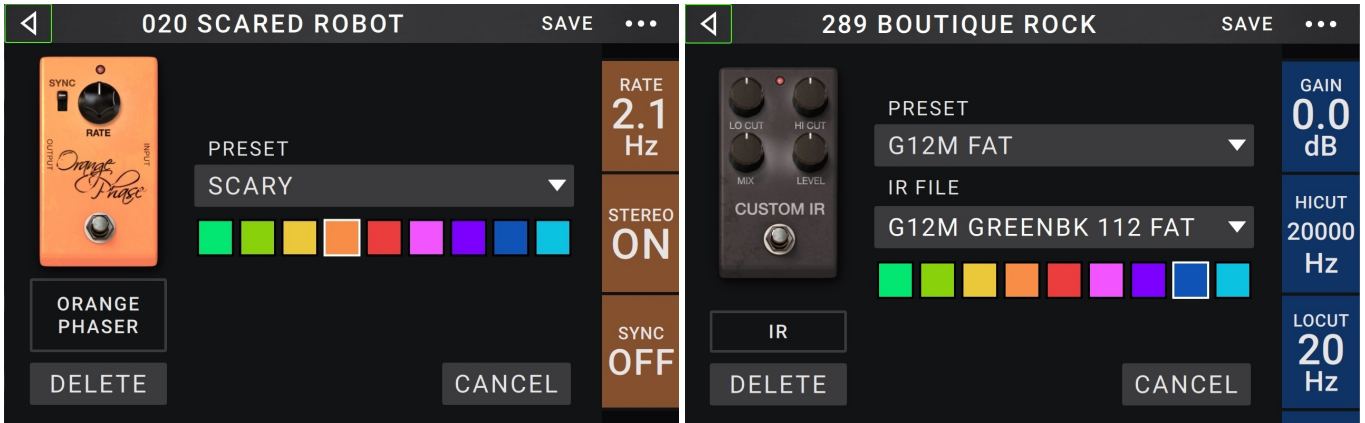
Out Gain: This is the cab’s output gain level.

Color: This is the assigned color, which will appear in the Hardware Assign screen and the switch indicator if the cab is assigned to a switch.



Effects

There are several types of available effects. Their adjustable settings depend on the type of effect.



In

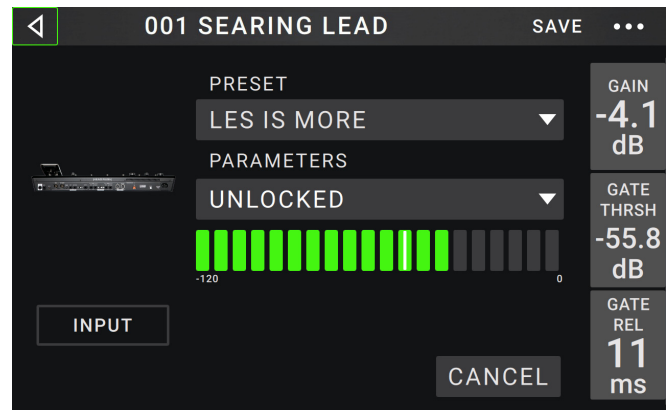
These input settings control the signal into the models of your rig:

Preset: This is the current input preset, which includes its settings on the right edge of the display and its locked/unlocked state.

Parameters: This menu determines whether these input settings are locked or unlocked.

When **unlocked**, the settings will change to the new rig's input settings each time you load a new rig. The lock icon on the main screen will be **grey**.

When **locked**, the settings will be retained as "global" input settings, regardless of the rig. The lock icon on the main screen will be **red**.



Rig Input: This setting determines whether the rig's input signal is taken from the **guitar input (Guitar)** or the right (R) **return input (FX Ret R)**. This menu is shown only when **Rig Input** is set to **Per Rig** (in the global settings (see [Global Settings](#) to learn about this).

Input Level Meter: This level meter indicates the current level of your input signal **before** the input controls shown on this screen.

Gain: This setting controls the gain level of the signal sent from your guitar into your rig. The available range is **-60.0 to 12.0 dB**.

Gate Thrsh (Threshold): This setting controls the signal level required to open the noise gate, enabling the guitar signal to be sent to the rig. The available range is **-120.0 to 0.0 dB**. The threshold is represented by a white line on the **input level meter**.

Gate Rel (Release): This setting controls the amount of time it will take for the noise gate to close once the incoming guitar signal stops. The available range is **1–3000 ms**.

USB Level: This setting controls the level of the audio signal sent from your computer to the HeadRush Pedalboard over a USB connection. The available range is **-60.0 to 12.0 dB**.

Out

These output settings control the signal sent to the HeadRush Pedalboard outputs:

Preset: This is the current output preset, which includes its settings on the right edge of the display.

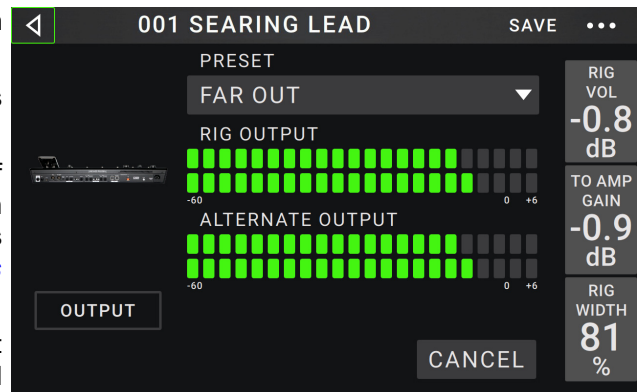
Rig Output: This level meter indicates the current level of your output signal **after** the output controls shown on this screen. You can set which outputs will send this signal in the Global Settings screen. See [Global Settings](#) to learn about this.

Alternate Output: This level meter indicates the current level of your output signal. You can set which outputs will send this signal in the Global Settings screen. The **To Amp Gain** setting controls the level of this signal unless the **Alternate Output** source is set to **Rig Input**. See [Global Settings](#) to learn about this.

Rig Vol (Volume): This setting controls the level of the audio signal sent from the outputs. The available range is **-60.0 to 36.0 dB**.

To Amp Gain: This setting controls the gain level of the signal of the Alternate Output unless the **Alternate Output** source is set to **Rig Input** (see [Global Settings](#) to learn about this). The available range is **-60.0 to 12.0 dB**.

Rig Width: This setting controls how much of the stereo field the output signal uses. **100%** uses the full stereo field, while **0%** produces a mono signal. This affects stereo signals only, not mono signals. See [Main Screen > Stereo vs. Mono](#) to learn how the HeadRush Pedalboard handles stereo and mono signals.



Mix

These settings control mix of a split signal path. This is available only for rigs with split signal paths (see [Main Screen > Signal Path](#) to learn more):

Preset: This is the current mix preset, which includes its settings on the right edge of the display.

A Lev / B Lev (Level): These settings control the volume levels the upper (A) and lower (B) branches of the signal path. The range is **-60.0 dB to +12.0 dB**.

A Pan / B Pan: These settings control the panning (position in the stereo field) the upper (A) and lower (B) branches of the signal path. The range is **-100% to +100%**.

A/B Delay: This setting controls a timing offset between the upper (A) and lower (B) branches of the signal path. The range is **-30000µs to +30000µs**. If the value is negative (-), the A branch is delayed. If the value is positive (+), the B branch is delayed.



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.

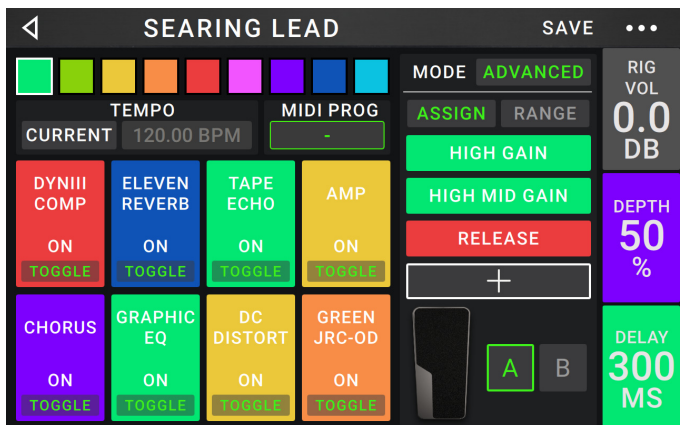
Hardware Assign

The Hardware Assign screen enables you to customize how the HeadRush Pedalboard's footswitches, expression pedal, and parameter knobs 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 the HeadRush Pedalboard is in Rig View.

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 (the lower-right-most one) at the desired tempo 3–8 times to set the new tempo in beats per minute (**BPM**). You can do this anytime that footswitch display shows **Tempo**.

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.

The **MIDI Prog** field determines the MIDI program change number of the rig. Use the **Prog Change** setting in the Global Settings screen to determine whether the HeadRush Pedalboard can send and/or receive MIDI program change messages (see [Global Settings > MIDI Settings](#) for more information).

To set the MIDI program change number, turn the **encoder** to select it (**0–127**).

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

Footswitches

The eight boxes in the lower-left corner represent the middle eight footswitches of the HeadRush Pedalboard. 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** **x** to unassign that footswitch.
4. On the Hardware Assign screen, tap **Toggle/Hold** for that footswitch to determine how it works.

When set to **Toggle**, each press will turn the model on or off.

When set to **Hold**, pressing and holding the footswitch will activate it, and releasing the footswitch will deactivate it.



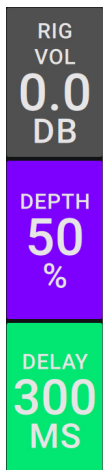
To swap two assignments, tap and drag one of them over the other, and then release it.

Quick Parameters

The right edge of the screen shows a column of fields for three parameters. These are the three parameters that are shown first whenever you load a rig. When no model is selected on the main screen, you can turn the three **parameter knobs** to adjust these parameters. You can assign any continuous parameters to these knobs (parameters with a range of values rather than ones with only “on” and “off” states).

To assign a parameter to a parameter knob:

1. Tap the field to which you want to assign a parameter. **+** indicates an empty field.
2. In the list that appears, tap the model with the parameter you want to assign. You can also select parameters for the incoming signal (**Input**) or outgoing signal (**Output**).
3. In the list that appears, tap the parameter you want to assign.
Tap **Unassigned** **x** to unassign that parameter knob.



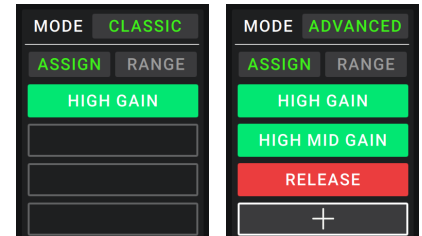
Expression Pedal

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 pedalboard, and then press down. The expression pedal status LED will indicate **A** or **B**.

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**.



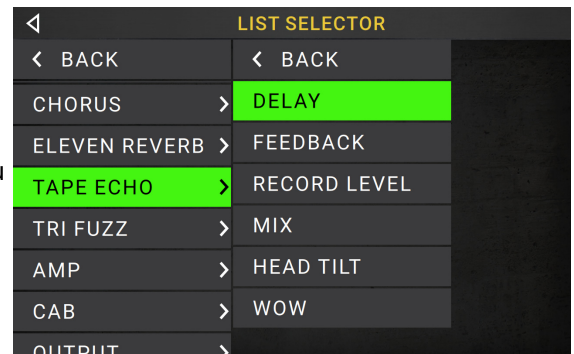
Classic: You can assign one parameter to each expressional pedal (**A** and **B**). Using the toe switch will select the other expression pedal and deactivate (bypass) the current expression pedal’s parameter. For instance, if you assign a wah pedal to Expression Pedal A and a volume pedal to Expression 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.

Important: You **cannot** edit any parameters assigned to the expression pedal in **Classic Mode** (they will show a lock icon and be greyed out in other screens to indicate this). You **can** edit any parameters assigned to the expression pedal in **Advanced Mode** (they will show a pedal icon in other screens to indicate this).

To assign a parameter to the expression pedal:

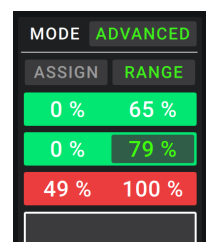
1. If the **Assign** button is not on, tap it.
2. Tap a box under the **Assign** button. **+** indicates an empty box.
3. In the list that appears, tap the model with the parameter you want to assign.
4. In the list that appears, tap the parameter you want to assign.
Tap **Unassigned x** to unassign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

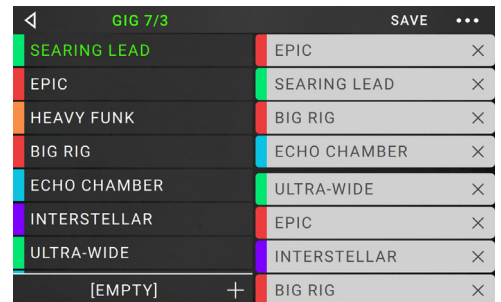
To create a setlist:

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**.

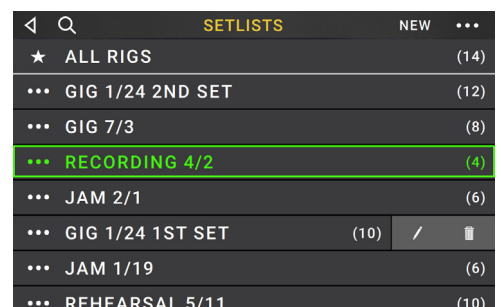
(At any time) **To return to the previous screen without saving**, tap **Cancel**.



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. **Optional:** Tap the **magnifying-glass icon** in the upper-left corner, and use the virtual keyboard that appears to enter a search term (e.g., part of the setlist name). The results will appear below.
3. 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.



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.

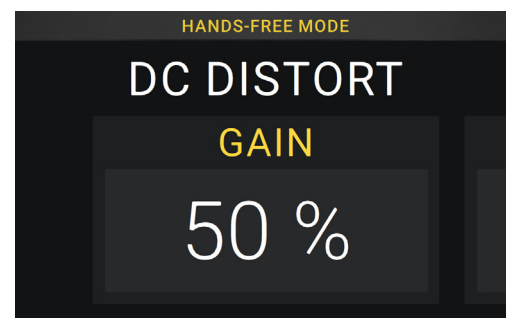
To enter Hands-Free Mode, press and hold a **footswitch** assigned to a model for over one second. While in Hands-Free Mode, the screen will show a single parameter and its value, and the top six footswitches will correspond to six parameters of that model.

To exit Hands-Free Mode, press the lower-left most (**Exit**) footswitch.

To change the value, move the **expression pedal**.

To show another parameter, press the corresponding footswitch. If that model has more than six parameters, press the lower-middle two (◀ or ▶) **footswitches** to show the previous or next six parameters.

If you are using a double-amp and/or double-cab configuration (**2X**), use the **1▲▼2** footswitch to switch between the two.



Looper

The HeadRush Pedalboard 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 **100 layers**.

The diagram shows the Looper display with several callouts explaining its components:

- Rig name.**: Points to the top of the display showing 'SEARING LEAD'.
- This meter indicates your current location in the loop during recording or playback.**: Points to a green progress bar.
- 00:00.0** and **20:00.0**: Time markers on the progress bar.
- PLAY**: The central play button.
- MIX 50%**: A control for the looper's signal level in the outputs.
- FDBK 100%**: A control for how much of the looper's signal is routed back through it when recording another layer.
- LOOP LENGTH 1**: A control for the length of the current loop.
- SPEED 2X**: A control for the current speed of the loop as a multiple or fraction of the original.
- OVERDUB LAYERS 1**: A control for how many layers are playing in the current loop, including the original.
- PLAYBACK REVERSE**: A control for the direction of playback.

HEADRUSH

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 erase the top-most (last-added) **layer of the loop**, press the **Peel** 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 record over a section of the top-most (last-added) **layer** (like a punch-in/punch-out function), press the **Insert** footswitch. Recording will begin immediately and the footswitch indicator will light **red**. Press the **Insert** footswitch again to stop recording and continue playback. This overwrites that section of the top-most layer.

To halve or double the length of the loop, press the **1/2 Loop** or **2X Loop** footswitch, respectively. The loop's relative length is shown in the **Loop Length** field. The halving process is non-destructive, so you can restore your original loop and its content by pressing **2X Loop**.

To halve or double the speed of the looper, press the **1/2 Speed** or **2X Speed** footswitch, respectively. The loop's relative speed is shown in the **Speed** field.

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

To reverse looper playback, press the **Reverse** footswitch. The looper's current playback direction is shown in the **Playback** field.

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

To mute or unmute the looper, press the **Mute** footswitch.

To exit the looper and return to the main screen, press the **Exit** footswitch. If the looper is playing, playback will continue. Press and hold the **Looper** footswitch for one second to stop looper playback without re-entering the looper.

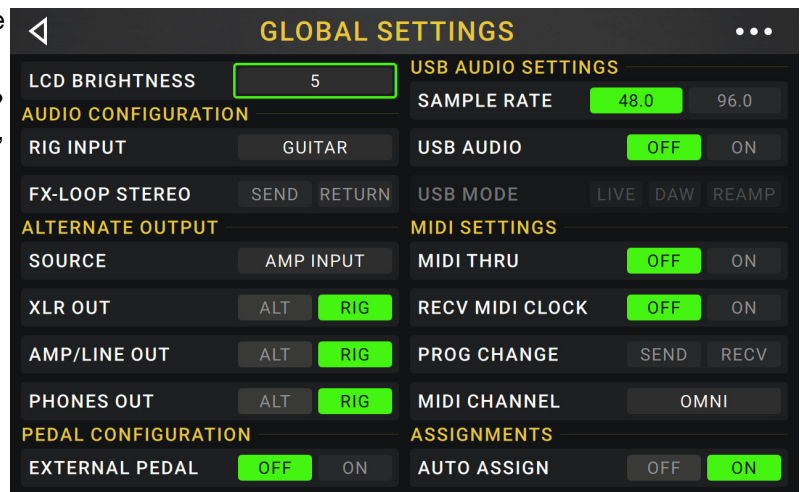
You can re-enter the looper by simply pressing the **Looper** footswitch again.

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 Pedalboard's overall operation.

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



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 right (R) **return input (FX Ret R)**. When set to **Per Rig**, the source is determined by the **Rig Input** setting of each rig (see [Adjusting Settings > In](#) to learn about this). When set to **FX Ret R** or **Per Rig**, the **FX-Loop Stereo Return** setting will be disabled; the signal will be mono.

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**.

Alternate Output: These settings determine the signal sent from each output.

Source: This setting determines the point in the signal path from which the alternate output signal is taken: **Rig Input**, **Amp Input** (the default setting), **Amp Output**, **Cab Input**, **Cab Output**, **IR Input**, **Amp 2 Input**, **Amp 2 Output**, **Cab 2 Input**, **Cab 2 Output**, or **IR 2 Input**.

XLR Out: This setting determines whether the **XLR outputs** will send the rig output signal (**Rig**) or alternate output signal (**Alt**).

Amp/Line Out: This setting determines whether the **1/4" (6.35 mm) outputs** will send the rig output signal (**Rig**) or alternate output signal (**Alt**).

Phones Out: This setting determines whether the **phones output** will send the rig output signal (**Rig**) or alternate output signal (**Alt**).

Pedal Configuration:

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

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.

USB Audio Settings:

Sample Rate: This setting determines the sample rate of the USB audio signal: **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 pedalboard 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 what audio signal how the HeadRush Pedalboard 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 Pedalboard's **outputs**.

DAW: The audio signal will be sent to your computer only. The HeadRush Pedalboard's **outputs** will be disabled to prevent any latency while monitoring.

Reamp: Your computer will send an audio signal to the HeadRush Pedalboard, which will process it through the current rig and send it back to your computer. The HeadRush Pedalboard's **outputs** will be disabled to prevent any latency while monitoring. See [Reamping](#) to learn how to configure your DAW for this process.

MIDI Settings: These settings determine how the HeadRush Pedalboard sends and receives MIDI information from and to external devices. These settings affect only the HeadRush Pedalboard'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 Pedalboard's MIDI input will be sent directly to the MIDI output. Tap **Off** to use the HeadRush Pedalboard's MIDI output normally; the HeadRush Pedalboard will be able to send its own MIDI information out of the MIDI output.

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

Prog Change: Tap **Send** to enable or disable the HeadRush Pedalboard's transmission of MIDI program change messages when you press the upper-left (**Rig ▲**) or lower-left (**Rig ▼**) switch. Tap **Recv** to enable or disable the HeadRush Pedalboard's reception of MIDI program change messages from an external MIDI device.

MIDI Channel: This setting determines the MIDI channel(s) that the HeadRush Pedalboard 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.

USB

You can use the HeadRush Pedalboard's USB connection to your computer for [Transferring Files & Settings](#) (e.g., rigs, setlists, presets, etc.), [Recording](#) (to a digital audio workstation [DAW]), or [Reamping](#).

Transferring Files & Settings

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

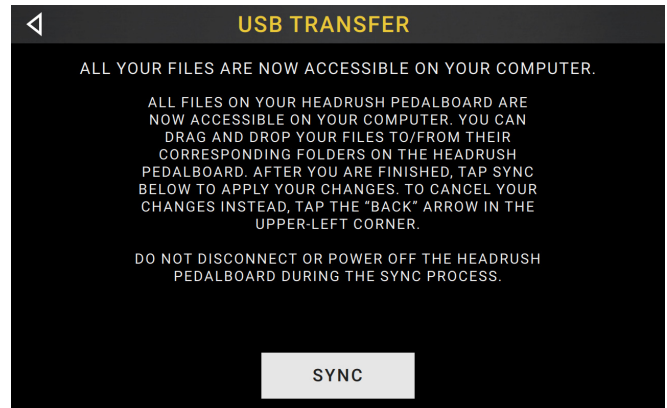
We recommend creating a backup copy of your files to your computer before you make any changes.

Important:

Do **not** disconnect or power off the HeadRush Pedalboard during the process.

Any unsupported files will be ignored.

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 Pedalboard "drive."



To transfer files between the HeadRush Pedalboard and your computer:

1. Connect your computer to the HeadRush Pedalboard's **USB port** using a standard USB cable.
2. With your computer powered on, power on the HeadRush Pedalboard using the **power switch**.
3. Tap the **•••** button in the upper-right corner of the screen, and 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 Pedalboard 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** will not be final until after the next step, but any changes you make to the files on your computer are immediate.
6. **To apply your changes to the contents of HeadRush**, tap **Sync**. This will "commit" any changes you made. As the HeadRush Pedalboard 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.

To cancel your changes the contents of HeadRush, tap **<** in the upper-left corner. This will cancel any changes you made. Any changes you made to files on your computer will remain, though.

Recording

When the HeadRush Pedalboard's USB port is connected to your computer, you can select and use the HeadRush Pedalboard as a 24-bit audio interface, enabling you to play audio through it or to send its audio signal to the computer. It can use sample rates of 48 kHz or 96 kHz.

Important Note for Windows Users: Before connecting the HeadRush Pedalboard to your computer, download the necessary drivers from headrushfx.com/support and install them.

To use the HeadRush Pedalboard as an audio interface with your computer, open your computer's **Control Panel** (Windows) or **System Preferences** (Mac OS X), open its sound/audio settings, and select **HeadRush Pedalboard** as the device for recording/input and/or for playback/output.

The HeadRush Pedalboard can send four separate audio signal channels to your computer. Before recording the HeadRush Pedalboard's audio signal into your digital audio workstation (DAW), select the channel/channels you want to record:

- 1: the **left** channel of the **master outputs** with all active effects applied.
- 2: the **right** channel of the **master outputs** with all active effects applied.
- 3: a **mono** channel of the **guitar input** with no effects applied.
- 4: identical audio signal to 3.

The HeadRush Pedalboard can receive four separate audio signal channels from your computer. The channels are named and routed as follows:

- 1: the **left** channel of your computer's output audio signal, which will be sent directly out of the HeadRush Pedalboard's **master outputs** and **phones output**.
- 2: the **right** channel of your computer's output audio signal, which will be sent directly out of the HeadRush Pedalboard's **master outputs** and **phones output**.
- 3: a **mono** channel of your computer's audio signal, which will be sent back through the HeadRush Pedalboard (see [Reamping](#) below).
- 4: not used in this scenario.

Important: Remember to set your DAW's master outputs to be sent to 1/2.

Reamping

Reamping is a process that adds the tone coloration of an amp to a pre-recorded audio signal—in this case, sending audio from your DAW through the HeadRush Pedalboard and then recording it back into your DAW. This is useful for saving time because you can change the sound of an already-recorded guitar track without having to manually play the same part again.

To use the HeadRush Pedalboard to reamp an audio signal:

1. In your DAW, make sure **HeadRush Pedalboard** is selected as your audio interface for both recording/input and playback/output.
2. Assign the output of the desired track to 3.
3. On the HeadRush Pedalboard, tap the ●●● button in the upper-right corner of the screen, and tap **Global Settings**.
4. In the Global Settings screen, tap **Reamp** next to **USB Mode**.
Also, make sure the **Sample Rate** is set to the same sample rate as the one in your DAW. 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.
5. In your DAW again, create a new audio track and assign its input. For a **stereo** input signal, select 1/2. For a **mono** input signal, select 1.
6. Locate the point in your track where you want to start reamping.
7. On the HeadRush Pedalboard, select the rig, models, or other parameters to achieve the sound you want.
8. In your DAW, start audio recording. The track you want to reamp will be sent through the HeadRush Pedalboard and recorded into the audio track you created earlier.

Technical Specifications

Footswitches	(12) footswitches with color LEDs & OLED displays	
Pedals	(1) expression pedal	
Knobs	(1) 300° master volume knob (1) 300° phones volume knob (1) 300° auxiliary volume knob (1) 360° navigation/data encoder (3) 360° parameter encoders	
Displays	Main Display	(1) full-color LED-backlit display with touch interface 6.9" / 176 mm (diagonal) 5.9" x 3.7" / 150 x 93 mm (width x height)
	OLED Displays	(12) monochromatic OLED-backlit displays 1.2" / 30 mm (diagonal) 1.1" x 0.4" / 28 x 11 mm (width x height)
Connectors	(1) 1/4" (6.35 mm) TS input (guitar) (1) 1/4" (6.35 mm) TRS input (secondary expression pedal) (1) 1/8" (3.5 mm) stereo input (auxiliary device) (2) XLR outputs (with ground-lift switch) (2) 1/4" (6.35 mm) TRS outputs (amp- or line-level) (2) 1/4" (6.35 mm) TRS inputs (sends) (2) 1/4" (6.35 mm) TRS outputs (returns) (1) 5-pin MIDI input (1) 5-pin MIDI output/thru (1) USB Type-B port (1) IEC power input	
Power	Connection	IEC
	Input Voltage	100–240 V, 50/60 Hz, 1.2 A
Dimensions (width x depth x height, pedal fully forward)	23.6" x 11.2" x 2.9"	
	59.9 x 28.4 x 7.4 cm	
Weight	15.7 lbs.	
	7.1 kg	

Specifications are subject to change without notice.

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