FREQLUX

Tri-Pitch Engine

User Manual

For Firmware V1.0.4

HOTONE
DESIGN INSPIRATION

Contents

Welcome

Thank you for purchasing a Hotone product.
Please read this manual carefully to get the most out of your Freqlux.
Please keep this manual in a safe place for further reference.

Safety Instructions

Precautions

PLEASE READ CAREFULLY BEFORE OPERATING THE DEVICE.
Please keep this manual in a safe place for future reference.
Please always follow the basic precautions listed below.
These precautions include, but are not limited to, the following:

Definition of intended use

Power supply & power cord

Please check the voltage specification on the device or device power adaptor match your power supply network.
Please be sure to use the device just with an adequate power supply, such as original supplied power adaptor.
When using a 3rd party power adapter, please make sure the power adapter fits the device's power requirement. Use of an adapter other than that specified could damage the unit or cause malfunction and pose a safety hazard, such as incorrect polarity would cause the fire hazard.
Hotone will not be responsible for physical injury to you or others, or damage to the device or other property.
When disconnecting the adapter from an outlet, please always pull the connector itself. Pulling the cord will cause damage to the unit.
Make sure to separate the power adapter and store in a safe place.
Please remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
Please be sure to connect to an appropriate outlet with a protective grounding connection.

Do not open

This device contains no user-serviceable parts. Do not open the device or attempt to disassemble the internal parts or modify them in any way.
Opening the case may expose you to dangerous voltages, or other hazards.
Opening the casing or performing self-repairs on this device will result in the loss of the warranty eligibility for this device.
If it should appear to be malfunctioning, please discontinue use immediately and contact our service team.

Water warning
Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the device, turn off the power immediately and unplug the power cord from the AC outlet.
Please never insert or remove an electric plug with wet hands.

Fire warning
Please do not place any burning items or open flames near the device, since they may cause a fire hazard.

Electromagnetic fields warning
Please avoid operating the device within significant electromagnetic fields. Failing to do so may result in noise, device malfunction, or even loss of data etc.

Hearing loss
Please avoid setting all volume levels to their maximum, specially with using headphones. Depending on the condition of the connected devices, doing so may result in feedback that can cause hearing loss and damage the speakers or headphones.
Before connecting the device to other devices, please turn off the power for all devices. Also, before turning the power of all devices on or off, please make sure that all volume levels are set to the minimum. Failing to do so may result in hearing loss, electric shock, or device damage.

Location
Please keep away form children, or be accompanied by an adult. The following may cause choking hazard.
- Swallowing of small parts.
- Plastic covers and other packaging material.

While using, please do not cover the device with any cloth, or block any jack of the device.
The device and power supply will become warm with extended use.
Please avoid using the device in any of the following conditions that could cause malfunction:
- Extremely hot or cold places
- Sandy or dusty places
- Contact with corrosive gases or salt air
- Places with extreme vibrations

Before moving the device, please be sure to remove all connected cables, and power adaptor.
Depending on the material and temperature of the surface on which you place the device, its rubber feet may discolor or mar the surface.

Maintenance
Please remove the power plug from the AC outlet while cleaning the device.
Please use a soft cloth to clean the panels if they become dirty. If necessary, slightly moisten the cloth.
Never use cleansers, wax, or solvents such as paint thinner, benzene or alcohol.

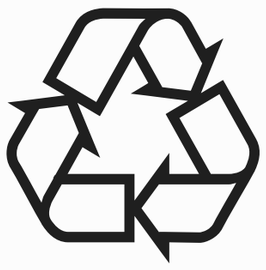
Operation
Please do not apply excessive force to the knobs, switches, jacks, and other controls.
Please do not apply excessive force to the screen (if applicable) or casing, which may cause malfunction.
Please do not expose the unit to strong impact or drop it.
Please do not place foreign objects (liquid or solid) into the device.

Malfunction
If any of the following problems occur, immediately turn off the device and disconnect the electric plug from the outlet.
- The device is dropped or damaged.
- The power cord or plug becomes frayed or damaged.
- The power adaptor malfunction.
- Unusual smells or smoke are emitted.
- Some object has been dropped into the device.
- There is a sudden loss of sound during use of the device.
- Cracks or other visible damage appear on the device.
- The device has other obvious signs of malfunction (e.g. can not turn on, knobs can not work, volume is too low, etc.)

Then please contact our service team.

About disposal
While disposing of this product, please take them to applicable collection points, for proper treatment, in accordance with your national legislation.

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.
Ensure that plastic bags, packaging, etc. are properly disposed of.
Please do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling.

Disposal of your old device

This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.
By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.
For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.
This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE Directive - Waste Electrical and Electronic Equipment) as amended from time to time version.

Observe the disposal note for documentation in France.

Disposal of batteries

Batteries must not be discarded or incinerated, but disposed of in accordance with local hazardous waste disposal regulations.

Service Contact

Please prepare information including the model name, serial number, specific symptoms related to the malfunction, your name, address and telephone number, etc.
You can contact the store where you bought the device, or contact Hotone support (service@hotoneaudio.com)
Please use this device according to the manual provided. Any other use, as well as use under other operating conditions, is considered improper use.
Hotone cannot be held responsible for damage caused by improper use or modifications to the device.

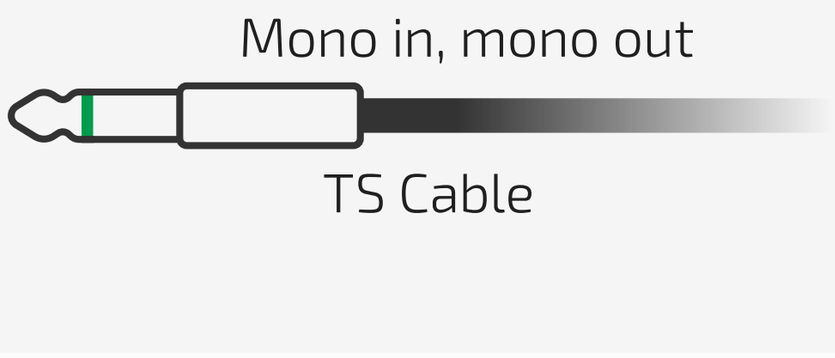
Panel Introduction

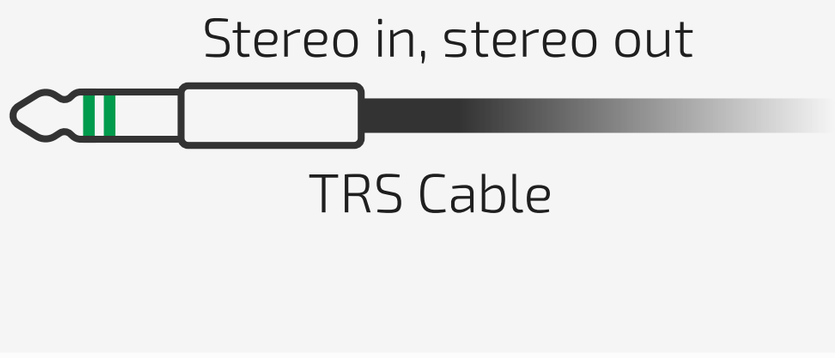
Front Panel Control

1. **H1, H2, H3**
   Adjust the parameters of the three harmony (pitch-shift) channels: H1, H2, and H3.
2. **PRESET**
   Rotate: Switch between stored presets.
   Press: Save to a selected location.
   Long Press: Save the current preset directly to the current location.
3. **MIX**
   Adjust the balance between all pitch-shifted signals and the dry vocal signal.
4. **SELECT**
   In the pitch-shift parameter pages: switch between parameter pages.
   In the menu pages: adjust menu parameters.
5. **ALT / MENU**
   Press: Open the main parameter pages for H1 ~ H3, and switch between pages.
   Long Press: Enter the MENU interface.
6. **FX**
   Press: Enter the FX parameter pages for H1 ~ H3, or exit the current page.
7. **ALT + FX**
   Enter the EXP settings page for the current preset.
8. **ACTIVE + FLUX**
   Switch the footswitch operating mode between Preset Mode and Control Mode.
   - Preset Mode:
     ACTIVE: Single Press: Switch to the previous preset.
     Long Press: Enter Tap Tempo mode.
     FLUX: Single Press: Switch to the next preset.
     Long Press: Enter the Flux Time adjustment page.
   - Control Mode:
     ACTIVE: Single Press: Enable/disable pitch-shifting.
     FLUX: Long Press: Activate the Flux dynamic pitch-shift effect.

Connection Guide

Freqlux can be used in both mono and stereo scenarios. By adjusting the input type settings, it is compatible with either mono or stereo input environments:





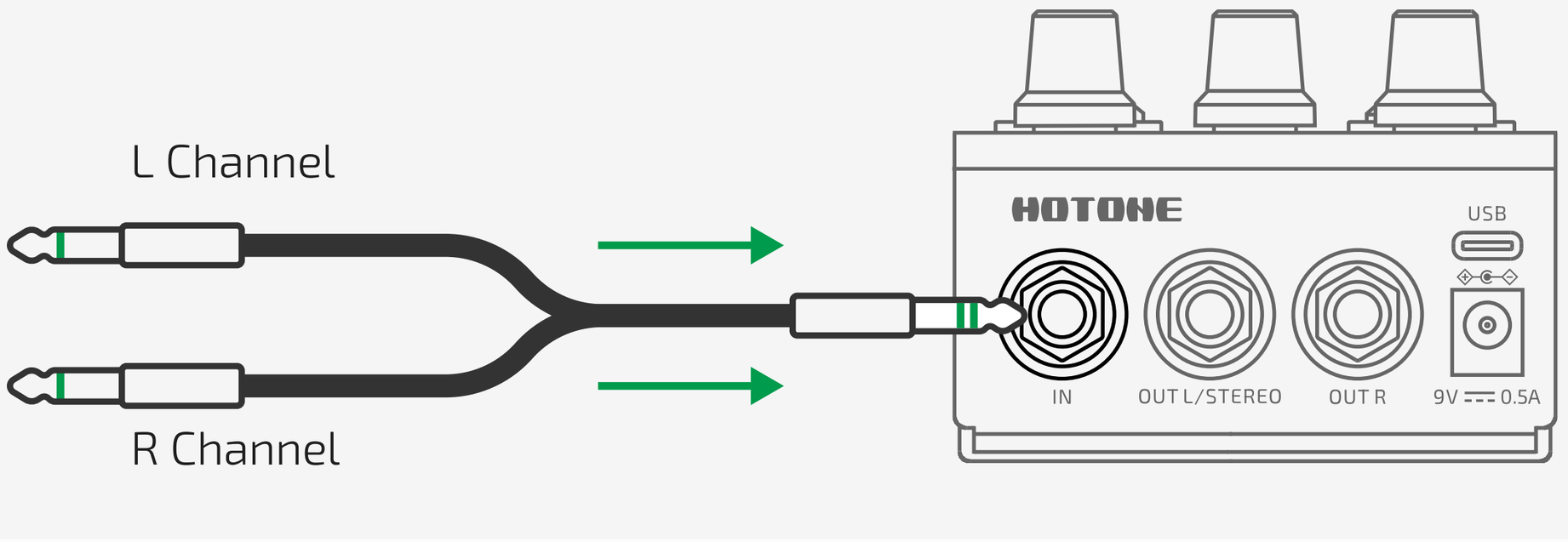
In a stereo input scenario, you may need a TRS to dual TS Y-cable:

INPUT

In the MENU settings, select the input mode: Mono/Stereo (see section **MENU**).

Mono Input Scenario: Use a 1/4" TS cable to connect a mono instrument.

Stereo Input Scenario: Use a 1/4" TRS cable to connect a stereo instrument.

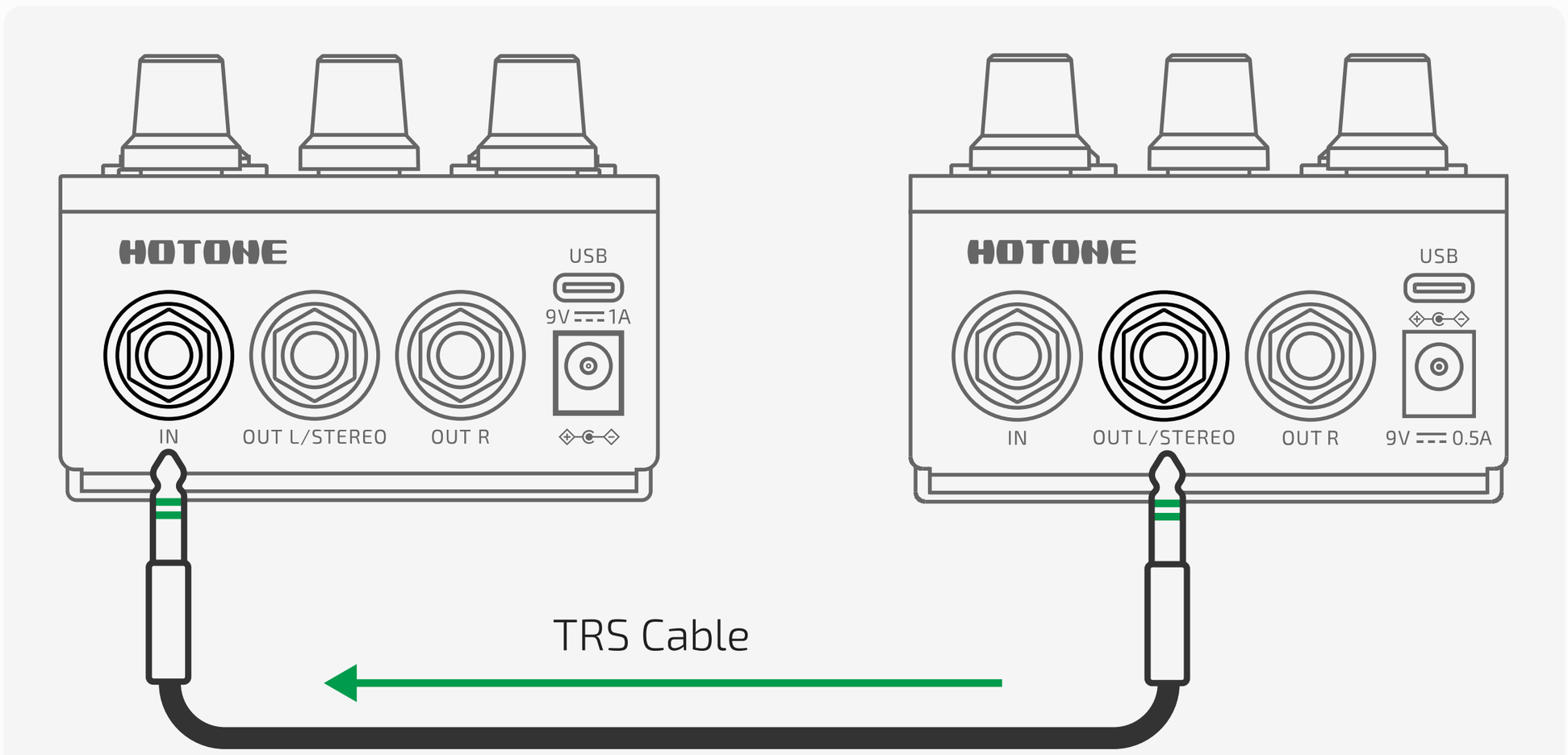


OUTPUT

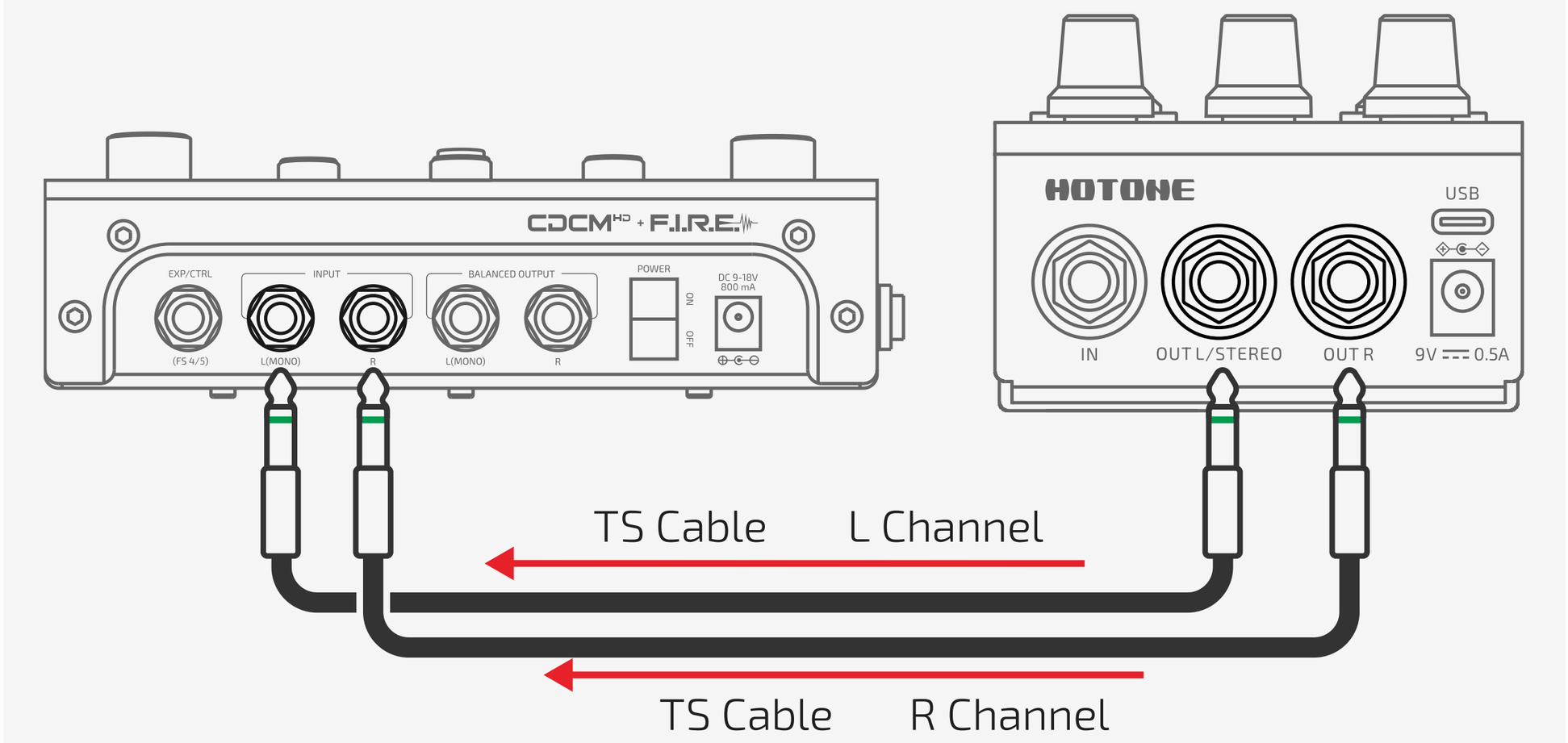
Mono Output Scenario: Use a 1/4" TS audio cable to connect the OUT L/STEREO channel to a mono input device.

Stereo Output Scenario:

1. Use a 1/4" TRS audio cable to connect the OUT L/STEREO channel to a stereo input device.



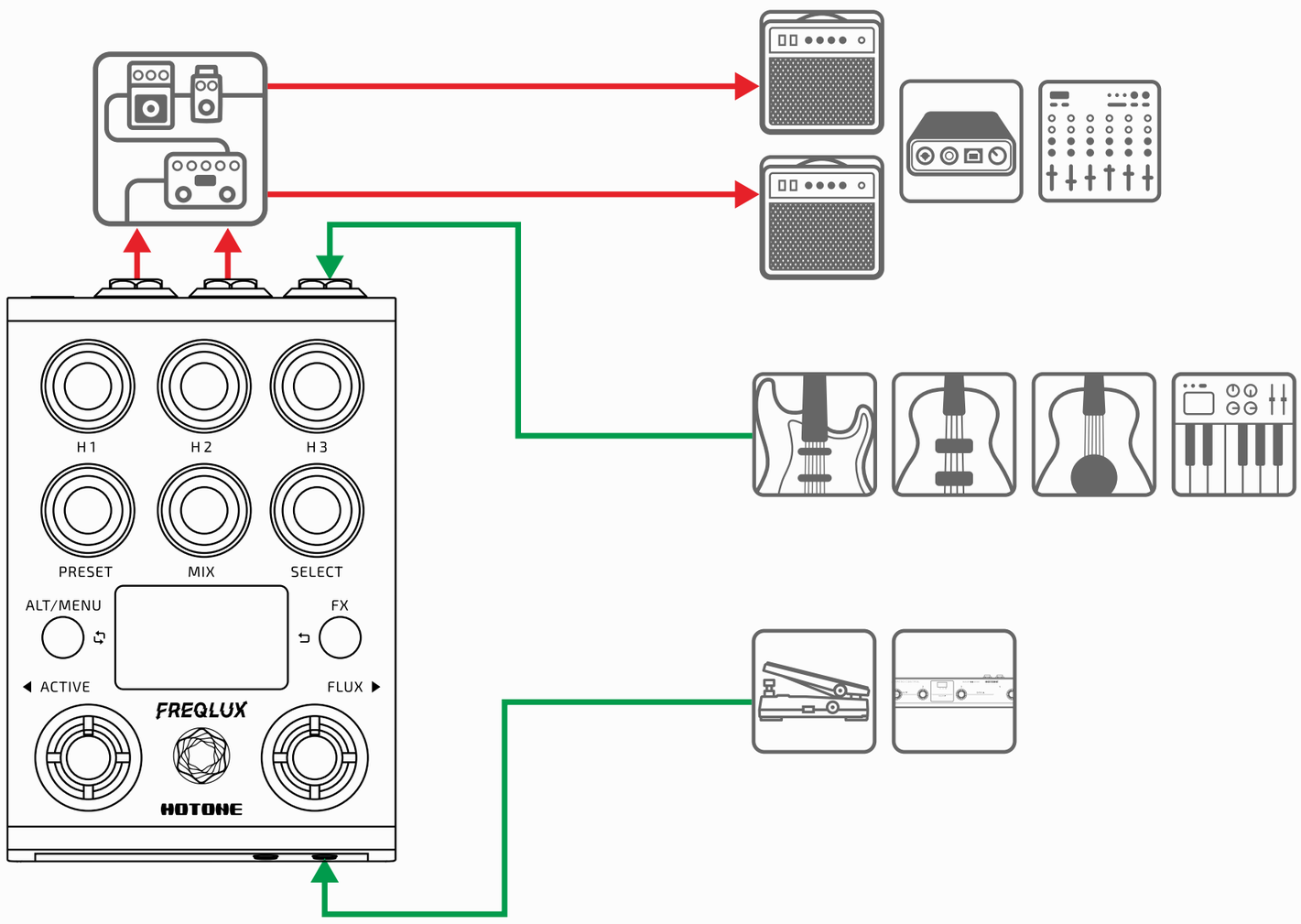
2. Use two 1/4" TS audio cables to connect the OUT L/STEREO and OUT R channels to a stereo input device.



Suggested Setups

Using with Other Pedals

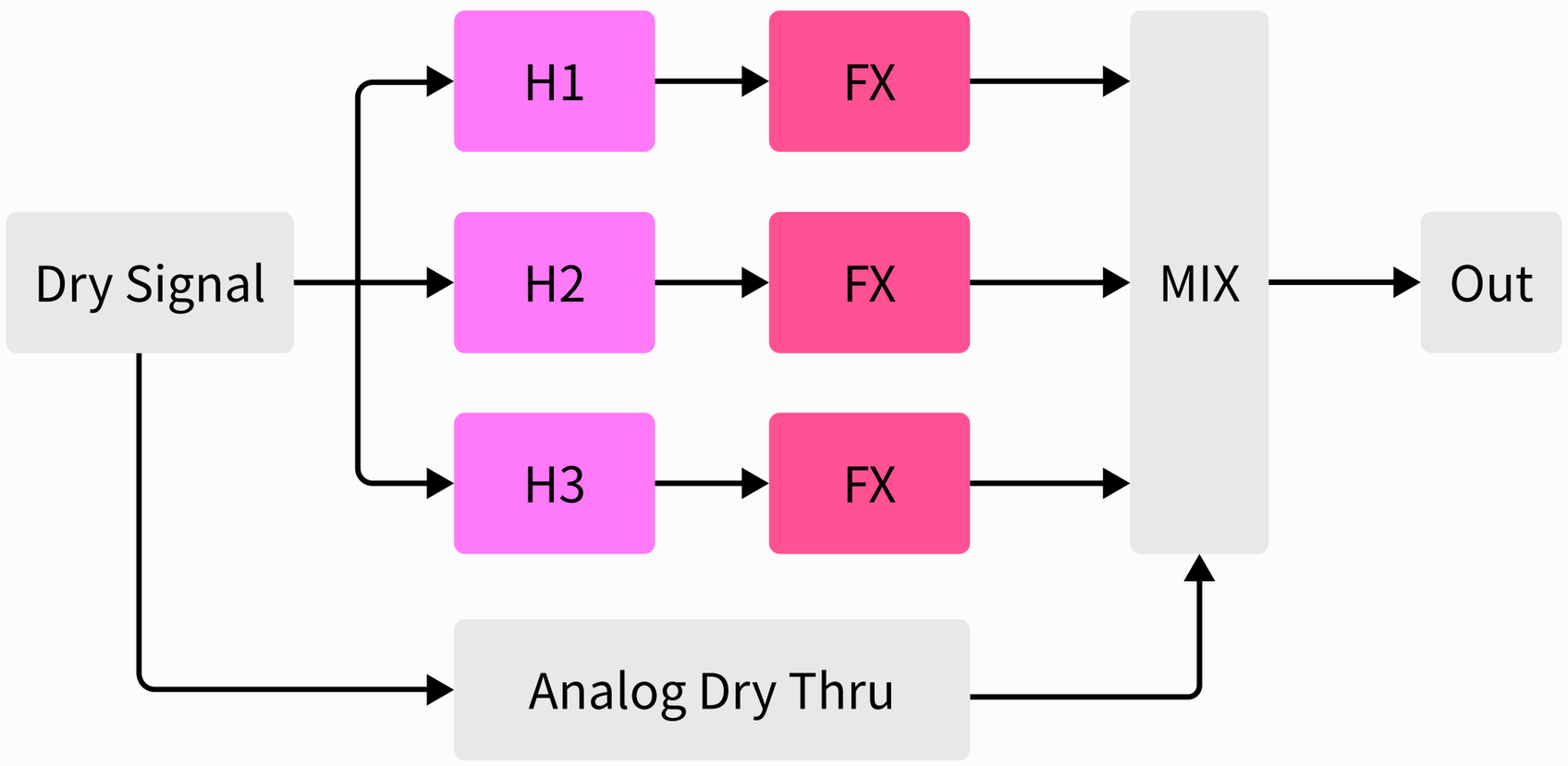
It is recommended to place Freqlux at the beginning of the effects chain. This allows it to process the instrument's raw signal directly, producing a clear pitch-shifting effect and providing a clean signal for subsequent effects in the chain.



Controls in Depth

Signal FLow Overview

Freqlux features three independently adjustable Harmony modules (H1, H2, H3), each of which can be set to different pitch-shifting modes to work in combination. Every Harmony channel has its own parameter controls, divided into Main Parameters and FX Parameters: the Main Parameters govern the fundamental pitch-shifting characteristics of the Harmony module, while the FX Parameters allow for independent sound design on each Harmony channel. The instrument's dry signal is routed through a pure analog dry-through design (Analog Dry Thru), fully preserving the original signal's dynamics and tonal details.



Harmony Main Parameter Adjustment

Description

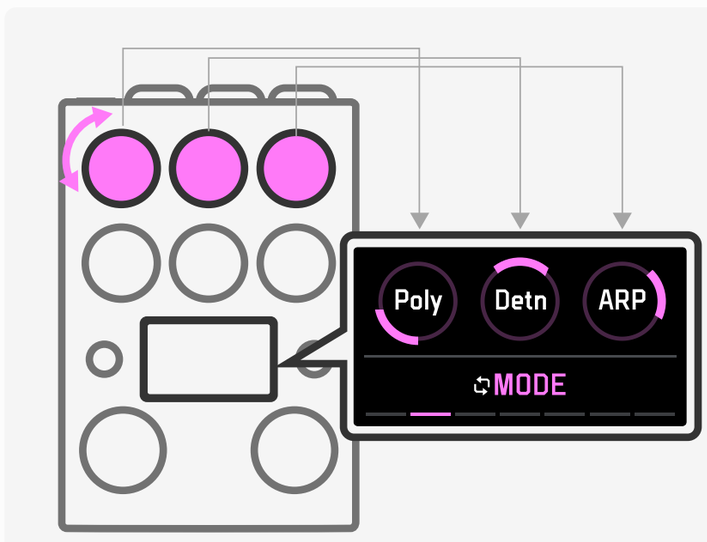
Freqlux features three independently adjustable Harmony channels (H1, H2, H3). Each module includes the following six main parameters for adjustment:

1. **PITCH:** Adjusts the pitch interval of the corresponding Harmony channel. The adjustment differs depending on the selected Mode:
   - In Poly and ARP modes, Pitch is adjusted in semitone steps, with a maximum range of ±3 octaves (-36 to +36).
   - In Key mode, Pitch is adjusted in scale degrees, following the selected Key and Scale.
2. **MODE:** Selects the pitch-shifting mode for the corresponding Harmony channel:

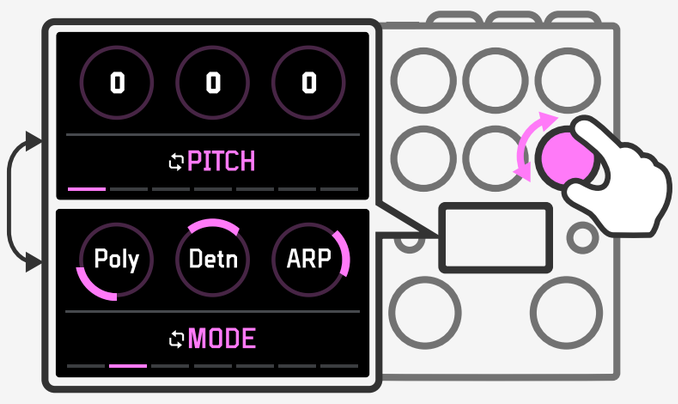
- Poly: Polyphonic pitch-shift mode, applies fixed intervals to any played notes in real time.
- Key: Transposes according to the selected key and scale.
- Detn: Detune mode, makes fine adjustments to the played pitch.
- ARP: Similar to Poly mode for polyphonic pitch-shifting, but transposes according to the set interval and scale when FLUX is active.
- Mod: Signal bypasses pitch-shifting and enters the FX module directly for modulation; unaffected by the PITCH parameter.

3. **LEVEL:** Adjusts the output volume of the corresponding Harmony channel.
4. **TONE:** Adjusts the brightness of the corresponding Harmony channel's sound.
5. **SWELL:** Adjusts the attack/smoothness of the Harmony effect.
6. **PAN:** Adjusts the stereo position of the Harmony effect in the output.

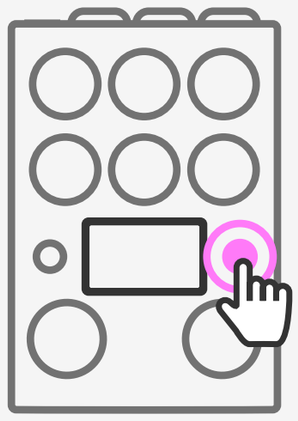
Main Parameter Adjustment



The H1~H3 knobs correspond to the parameter controls of Harmony Channels 1–3. For example, all parameters of Harmony 1 are adjusted via the H1 knob.Turning any of these knobs will immediately bring up the parameter interface for the selected Harmony channel.



Turning the SELECT knob or pressing the ALT button can also bring up the main parameter interface directly, allowing you to scroll through pages of the current parameter. Likewise, you can short-press the ALT button to switch the current parameter.



After the adjustments are completed, short-press the FX (Return) button to exit the parameter interface.

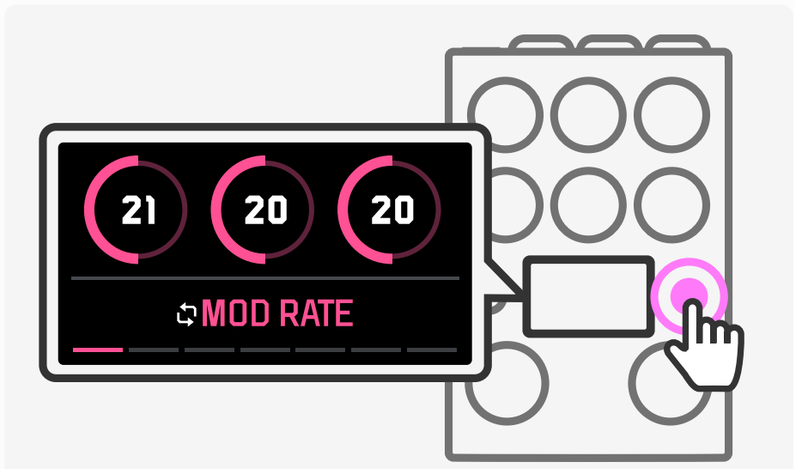
FX Module

FX Parameter Description

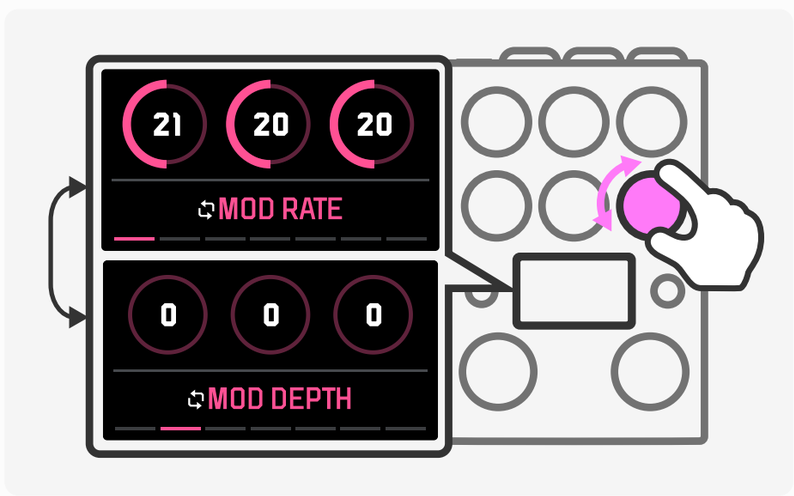
Each Harmony channel includes its own dedicated set of FX parameters, which can be used to add special effects to the corresponding pitch-shifted signal. A total of seven parameters are available:

1. **MOD RATE:** Controls the speed of both vibrato and tremolo effects.
2. **MOD DEPTH:** When enabled, adds vibrato to the Harmony signal and adjusts its intensity.
3. **TIME:** When enabled, adds delay to the Harmony signal and controls the delay time for each repeat.
4. **FEEDBACK:** Adjusts the number of repeats produced by the delay effect.
5. **FX MIX:** Controls the overall blend between the Harmony signal and the FX effect.
6. **DRIVE:** Adds a moderate amount of overdrive to the Harmony signal.
7. **TREMOLO:** When enabled, adds tremolo to the Harmony signal and adjusts its depth.

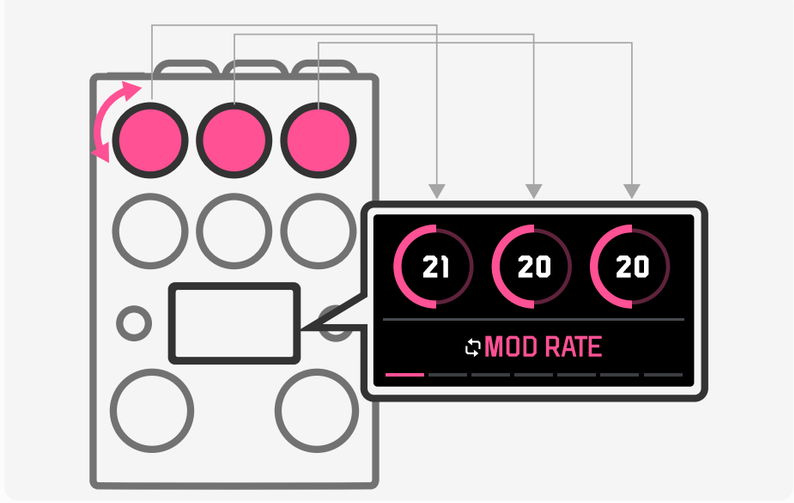
FX Parameter Adjustment



Press the FX button on the main screen to enter the FX parameter adjustment interface, or long-press the FX button while in the Main Parameter interface. In this mode, the parameter display and knob LEDs will switch to pink. After completing your adjustments, short-press the FX (Return) button to exit the FX parameter interface.



Turn the SELECT knob to scroll through pages of the currently selected parameter. You can also short-press the ALT button to switch the current parameter.



The H1~H3 knobs correspond to the FX parameter adjustments for Harmony Channels 1–3.

Flexible Use of Two Footswitch Modes

Freqlux features two footswitch modes, which can be switched between by using a combination of footswitches (pressing both Active and Flux simultaneously).

Single Press: Switches to the previous preset. The footswitch LED remains solid purple.

Long Press: Activates/deactivates the Tap Tempo function. The footswitch LED flashes in sync with the tempo.

Preset Mode

Single Press: Switches to the next preset. The footswitch LED remains solid purple.

Long Press: Enters the Flux parameter interface.

(For details, see the Flux function description below.)

Single Press: Activates or bypasses the entire effects unit. The footswitch LED turns on or off accordingly.

Control Mode

Long Press: Controls the Flux effect. The footswitch LED lights up while pressed and turns off when released.

(For details, see the Flux function description below.)

Flux Function — Your Other Instrument

Flux Footswitch Function

In Control Mode, pressing and holding the Flux footswitch allows the Harmony pitch to change dynamically, enabling a variety of glide and pitch-shifting effects without the need for an expression pedal. The Flux effect can be flexibly controlled by adjusting the **pitch movement speed (Attack Time, Release Time)** and the pitch movement curve **(Attack Curve, Release Curve)**. (Settings available in the Preset Setting menu)

The Flux function only affects the following two Harmony modes:

- **Poly Mode:** The pitch changes smoothly and continuously according to the set speed and curve.
- **ARP Mode:** The pitch moves according to the set speed and curve, following the scale type (Scale) defined in the current preset, in an arpeggiated manner.

Current State	Press and Hold Flux Footswitch	Release Flux Footswitch
Active On	The output signal immediately switches to the dry sound and then dynamically transitions from the dry pitch to the pitch of the current preset effect.	Regardless of whether the pitch has stopped changing when released, the output signal immediately returns to the pitch of the preset effect.
Active Off	The output signal immediately transitions dynamically from the dry sound to the pitch of the current preset effect.	Regardless of whether the pitch has stopped changing when released, the output signal immediately returns to the dry sound.

Auto Flux Function

Once you are familiar with the Flux function, you can enable the Auto Flux feature (available in the Preset Setting) to achieve automatic glide or arpeggio effects. When Auto Flux is activated, Freqlux monitors note attacks during performance and generates automatic glide or arpeggio effects in real time according to the set movement speed and curve—without the need to use the footswitch.

There are two Auto Flux modes available in the Preset Setting:

- **ATK:** Automatically triggers only the Attack (dynamic transition to the set pitch).

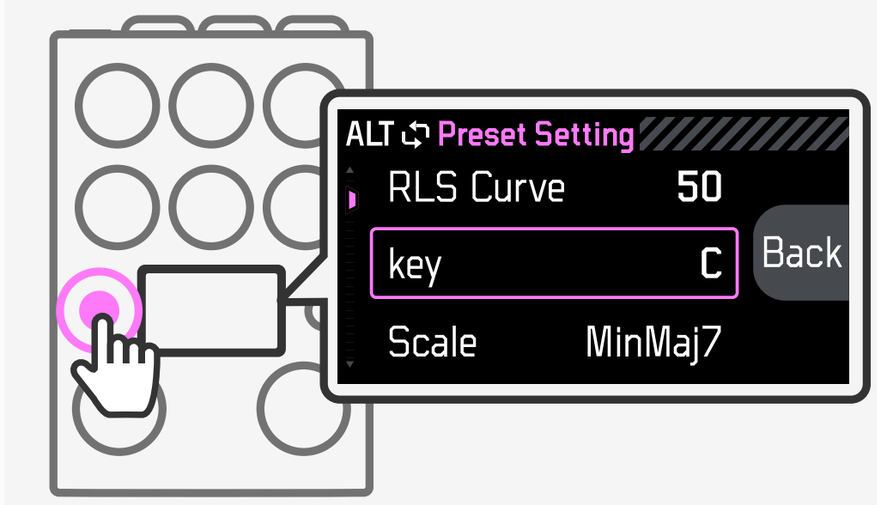
- **ATK+RLS:** Automatically triggers both Attack and Release (dynamic transition to the set pitch and dynamic return).

Note:

The Auto Flux function only remains active when Active is turned on.

During fast, continuous passages, Auto Flux will not retrigger unless a distinct note attack is detected again.

MENU



Long-press the ALT/MENU button to enter the menu interface, which includes Global Setting and Preset Setting. Short-press the ALT button to toggle between the Global Setting and Preset Setting interfaces.
Rotate the SELECT knob or PRESET knob to navigate and press to select. After making adjustments, press the FX (Return) button to save and exit.

Global Setting

1. **Input: Mono/Stereo** — Select the input mode as mono or stereo. Please use the correct audio cables accordingly for the input connection (refer to the **connection guide**).
2. **Output: Mono/Stereo**——Select stereo or mono output. Stereo is recommended for best sound.In mono applications, use Mono Output to send all three Harmony voices through both outputs (Out L and Out R carry the same signal), regardless of individual Pan settings.
3. **Time Lock:** When enabled, switching presets will not change the FX Time value starting from the current preset.
4. **CTRL: MIDI/EXP**——Select the operating mode of the control port (see **Expression Pedal & MIDI** for details).
5. **Trail:** Enable or disable the global Trail function. When enabled, delay tails will continue after the effect is turned off until they naturally fade out.
6. **USB MIDI CH:** Select the device's USB MIDI channel. The default channel is Channel 1.
7. **TRS MIDI CH:** Select the device's TRS MIDI channel. The default channel is Channel 1.

8. **EXP Calibrate:** Enter the pedal calibration menu. For optimal operation, calibrate the pedal after connecting an external expression pedal.

Lift the pedal fully.
Press **ALT** to proceed to the next step.

Fully press down the pedal.
Press **ALT** to proceed to the next step.

If calibration is successful,
press **ALT** to exit calibration.

If calibration fails,
press **ALT** to retry calibration

9. **Key REF:** To ensure accurate Harmony generation in Key Mode, set the reference frequency to match the tuning standard of your instrument. (This setting does not affect other Harmony modes.)
10. **FS Boot:** Preset/Last——Select the pedal mode at startup: either the preset mode or the mode used before the last shutdown.
11. **About:** View the current firmware version of the device.

Preset Setting

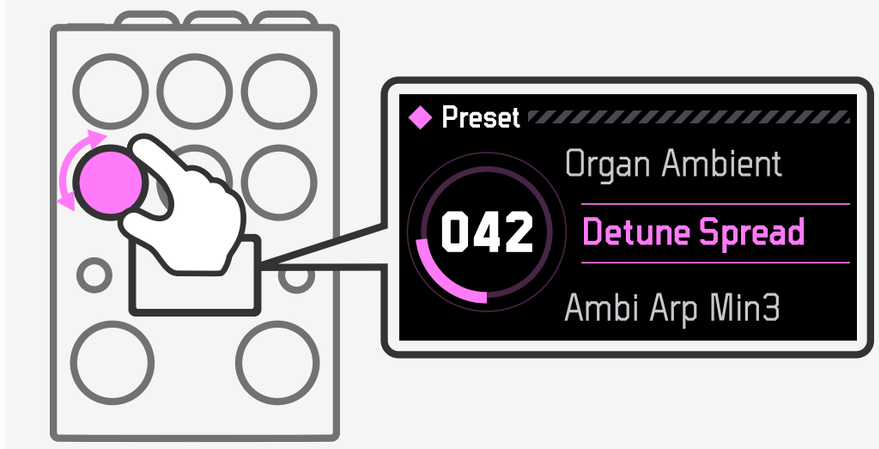
Configure the usage and control settings for the current preset.

1. **Preset Vol—**Adjust the overall output level of the current preset. The default level is “0”, which represents the maximum output.
2. **Key:** Select the Key for Key Mode Harmony in the current preset and set it to match the key of the song or section you play.
3. **Scale:** Select the scale rule for Key Mode Harmony in the current preset.

(Key and Scale only affect Key Mode and do not impact the harmony in other modes.)

4. **FB Mode:** Used to select the type of delay feedback effect in the FX section.
   - Fusion: The feedback signals of the three Harmony voices are mixed and fed back into the transposition, creating richer, overlapping delay tails.
   - Clean: Each Harmony voice's feedback signal is routed through its own transposition feedback, producing clear, distinct delay tails.
   - No Shift: Harmony feedback signals are not transposed again, producing a traditional delay effect.
5. **Tempo:** Set the tempo for the current preset.
6. **Time Mode:** Select how Time-related parameters are displayed in this preset.
   - ms: Display Time-related parameters in milliseconds, independent of the preset tempo.
   - Sync: Set Time-related parameters as note values, synchronized with the preset tempo.
7. **Flux Para:** Enter the Flux parameter interface and adjust the time parameter of the pitch change process of the Flux function.
8. **Auto FLUX:** Select the mode for automatically triggering the Flux function.
   - Off: Flux is not triggered automatically; activate it by pressing and holding the Flux pedal.
   - ATK: Automatically trigger only the Attack phase (pitch shifts to the set value).
   - ATK+RLS: Automatically trigger both Attack and Release (pitch shifts to the set value and then returns).
9. **ATK Curve:** Adjust the pitch movement curve in the Flux function: higher values make the pitch shift start fast and slow down toward the target, while lower values make it start slow and speed up toward the target.
10. **RLS Curve:** Adjust the pitch return curve in the Flux function: higher values make the pitch return start quickly and slow down toward the original pitch, while lower values make it start slowly and speed up toward the original pitch.

About Preset

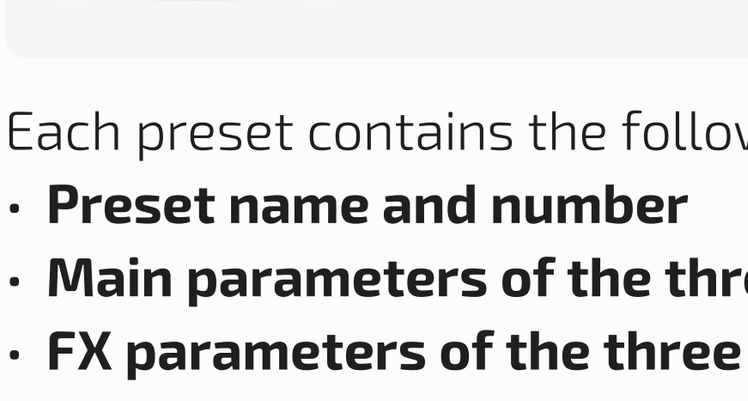


Rotate the PRESET knob to switch presets on the device. Up to 200 preset positions are supported, including 95 editable factory presets.

Each preset contains the following information:

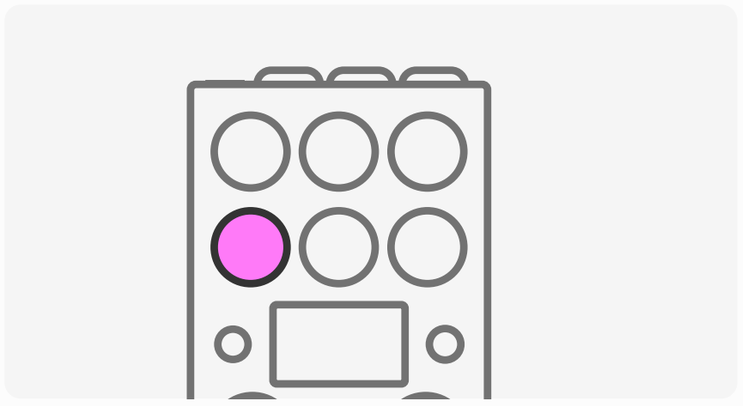
- **Preset name and number**
- **Main parameters of the three Harmony voices**
- **FX parameters of the three Harmony voices**
- **All parameters in Preset Settings**
- **EXP settings for the preset**

Preset Main Interface



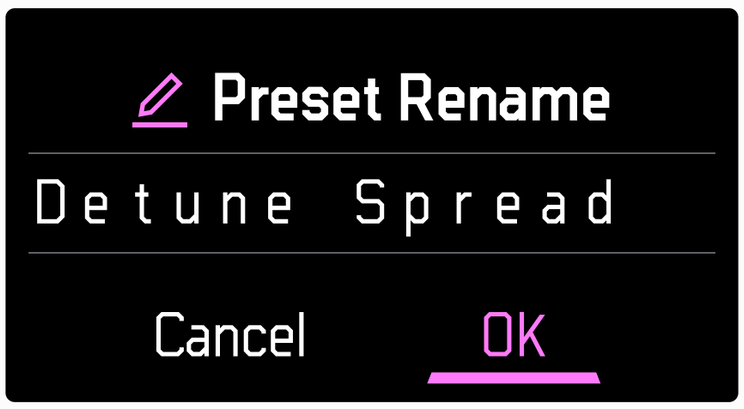
1. A dot appears here to indicate that the preset information has been modified.
2. This area shows the Key and Scale selected in the current preset settings. If Key Mode is not used in the preset, this option will be grayed out and inactive.

Save Preset and Rename

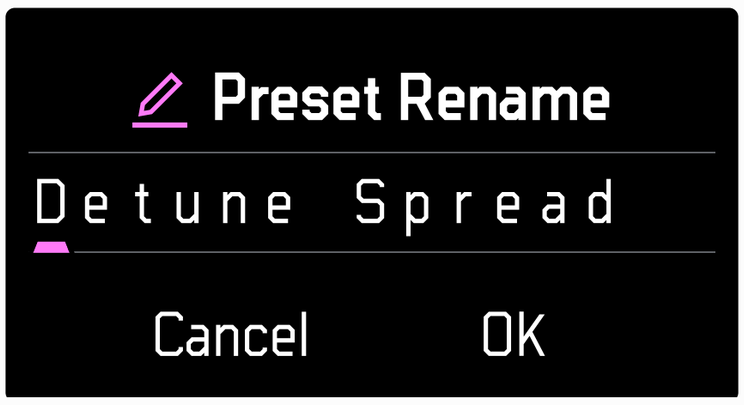


Press and hold the PRESET knob until the modification dot disappears to quickly save the current preset.

Press the PRESET knob to save a custom preset at the current position or overwrite another preset. Rotate the SELECT knob to choose the storage location, then press to confirm and enter the rename interface.



Press FX (OK) to save the current preset or ALT (Cancel) to discard changes. You can also use the SELECT knob to rename the preset.



Rotate the SELECT knob to choose the letter position you want to modify.

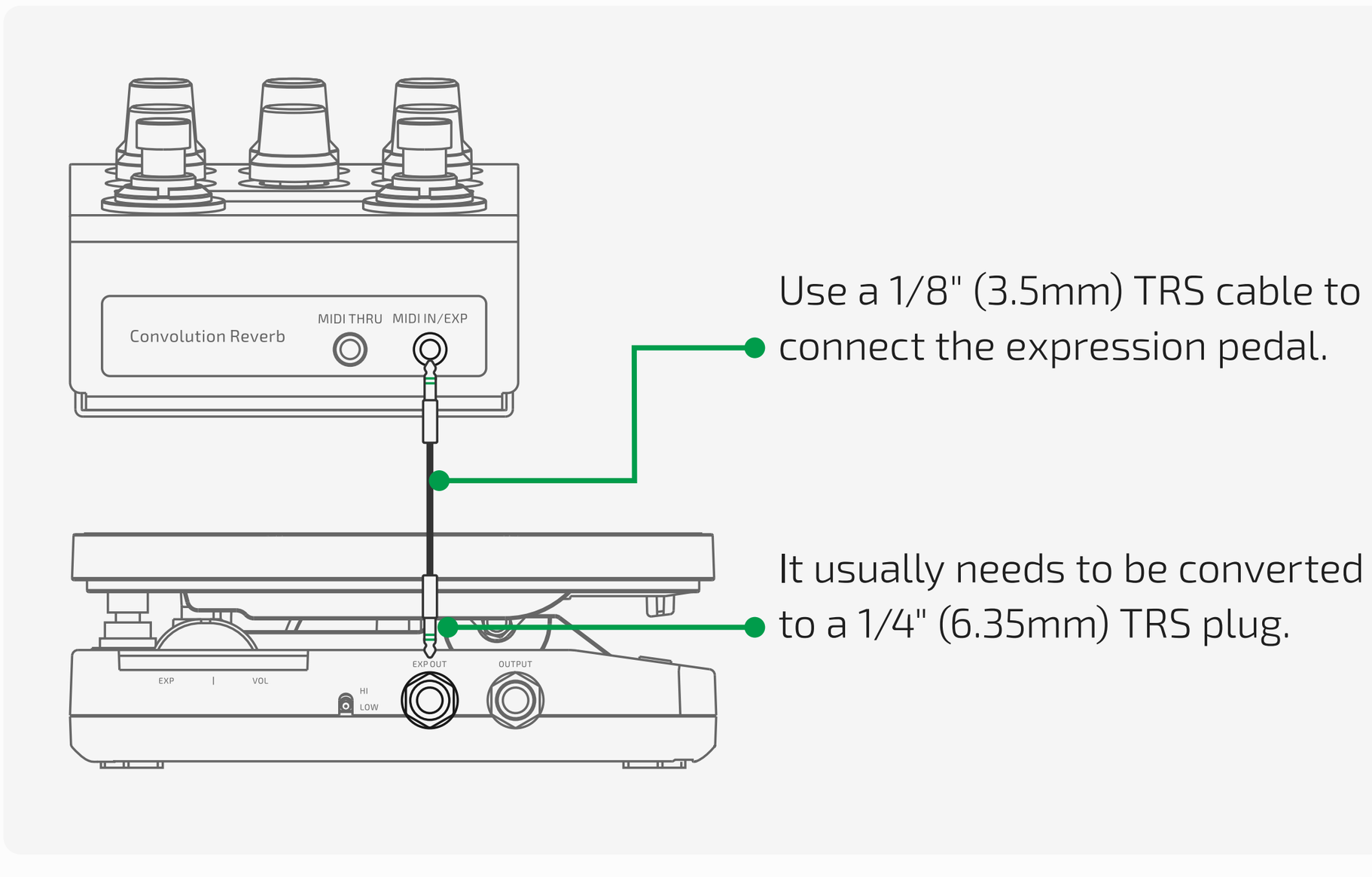
Press the SELECT knob to edit the highlighted letter.

Expression and MIDI

1. MIDI THRU: Standard MIDI Thru interface, use a 1/8" TRS cable to output to other devices, forwarding the received MIDI data in real time.
2. MIDI IN/EXP: A compatible interface for both MIDI IN and EXP. In the MENU, you can switch the operation mode of the EXP/MIDI interface (see section **Menu**). Use a 1/8" TRS cable to connect MIDI devices or expression pedal.

EXP Setting

After switching to EXP mode, connect Freqlux to an external expression pedal to enable real-time control of additional parameters.



After connecting the pedal, perform the pedal calibration first (see“**Global Settings**”) then return to the main page,press both **ALT and FX** buttons simultaneously to enter the EXP settings for the current preset.

When the screen displays **EXP Heel**, you are setting the parameters for the pedal heel position:

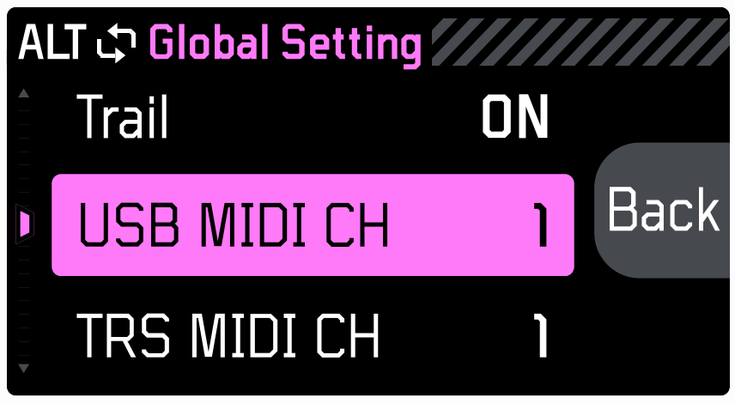
- Use the **SELECT knob and ALT button** to switch between the parameters you want to adjust.
- Rotate the **H1~H3 knobs**; the screen will show the current Harmony target and parameter value being adjusted (e.g., “1-LEVEL” indicates you are adjusting the Level parameter of Harmony 1).

Press the FX button to switch between the EXP Heel and Toe setting screens.

When the screen displays **EXP Toe**, you are setting the parameters for the pedal toe position.

- Rotate the **H1~H3 knobs** to adjust the parameter values. When both **EXP Heel** and **EXP Toe** values are set for a parameter, the corresponding knob on the screen will light up, indicating the parameter has been successfully configured.
- Setting the EXP Heel and EXP Toe of a parameter to the same value cancels pedal control for that parameter.
- After finishing the settings, press **both ALT and FX** buttons simultaneously to exit the EXP settings screen. (To save the EXP settings to the current preset, you must manually save the preset.)

MIDI Setting



After setting CTRL to MIDI mode, the Freqlux can be connected to other MIDI devices for additional control. In the menu, you can assign different MIDI channels for the device's USB and TRS ports (default is MIDI Channel 1).

MIDI CC Table

MIDI Control: Variable Parameters		
CC#	**Data (Range)**	**Parameter**
14	0~127	Bank MSB: Preset 001~100: CC 14=0~63, PC=0~99 Preset 101~200: CC 14=64~127, PC=0~99
15	0~4	H 1 Mode Poly: CC 2=0 Key: CC 2=1 Detune: CC 2=2 Arp: CC 2=3 Mod Only: CC 2=4
16	0~127	H 1 Level
17	0~127	H 1 Pitch
18	0~127	H 1 Tone
19	0~127	H 1 Swell
20	0~127	H 1 Pan
21	0~127	H 1 Mod Rate
22	0~127	H 1 Mod Depth
23	0~127	H 1 Time (ms)

MIDI Control: Variable Parameters		
CC#	**Data (Range)**	**Parameter**
24	0~127	H 1 Time (Sync) 1/16: CC 11=2~6 1/8T: CC 11=7~17 1/8D: CC 11=18~29 1/8: CC 11=30~40 1/4T: CC 11=41~52 1/4D: CC 11=53~63 1/4: CC 11=64~76 1/2T: CC 11=77~87 1/2D: CC 11=88~99 1/2: CC 11=100~110 1/1: CC 11=111~127
25	0~127	H 1 Feedback
26	0~127	H 1 FX Mix
27	0~127	H 1 Drive
28	0~127	H 1 Tremolo
29	0~4	H 2 Mode Poly: CC 2=0 Key: CC 2=1 Detune: CC 2=2 Arp: CC 2=3 Mod Only: CC 2=4
30	0~127	H 2 Level
31	0~127	H 2 Pitch
32	0~127	H 2 Tone
33	0~127	H 2 Swell
34	0~127	H 2 Pan
35	0~127	H 2 Mod Rate
36	0~127	H 2 Mod Depth
37	0~127	H 2 Time (ms)

MIDI Control: Variable Parameters		
CC#	**Data (Range)**	**Parameter**
38	0~127	H 2 Time (Sync) 1/16: CC 11=2~6 1/8T: CC 11=7~17 1/8D: CC 11=18~29 1/8: CC 11=30~40 1/4T: CC 11=41~52 1/4D: CC 11=53~63 1/4: CC 11=64~76 1/2T: CC 11=77~87 1/2D: CC 11=88~99 1/2: CC 11=100~110 1/1: CC 11=111~127
39	0~127	H 2 Feedback
40	0~127	H 2 FX Mix
41	0~127	H 2 Drive
42	0~127	H 2 Tremolo
43	0~4	H 3 Mode Poly: CC 2=0 Key: CC 2=1 Detune: CC 2=2 Arp: CC 2=3 Mod Only: CC 2=4
44	0~127	H 3 Level
45	0~127	H 3 Pitch
46	0~127	H 3 Tone
47	0~127	H 3 Swell
48	0~127	H 3 Pan
49	0~127	H 3 Mod Rate
50	0~127	H 3 Mod Depth
51	0~127	H 3 Time (ms)

MIDI Control: Variable Parameters		
CC#	**Data (Range)**	**Parameter**
52	0~127	H 3 Time (Sync) 1/16: CC 11=2~6 1/8T: CC 11=7~17 1/8D: CC 11=18~29 1/8: CC 11=30~40 1/4T: CC 11=41~52 1/4D: CC 11=53~63 1/4: CC 11=64~76 1/2T: CC 11=77~87 1/2D: CC 11=88~99 1/2: CC 11=100~110 1/1: CC 11=111~127
53	0~127	H 3 Feedback
54	0~127	H 3 FX Mix
55	0~127	H 3 Drive
56	0~127	H 3 Tremolo
57	0~127	Global Mix
58	0~127	Flux Attack
59	0~127	Flux Release

MIDI Control: Actions		
Data	**Data (Range)**	**Parameter**
75	0~127	Active On: CC 75=0~63 Active Off: CC 75=64~127
76	0~127	Flux On: CC 76=0~63 Flux Off: CC 76=64~127
77	0~127	Auto Flux On (ATK): CC 77=0~63 Auto Flux Off: CC 77=64~127
78	0~127	Auto Flux On (ATK+RLS): CC 78=0~63 Auto Flux Off: CC 78=64~127
79	0~127	FS Mode change (Preset): CC 79=0~63 FS Mode change (Control): CC 79=64~127
80	0~127	Next preset
81	0~127	Previous preset

Power Supply

To ensure the device fully performs its audio capabilities and functional parameters, please use the following two power supply methods:

1. It is recommended to use the factory 9V DC 0.5A power supply (center-negative).
2. The device is also compatible with USB power supply (5V 2A).

Software Support

The companion software Neon Collector can be used for preset management, firmware updates, and factory reset operations for Freqlux. The software supports both Windows and Mac OS. After downloading and installing the appropriate version from the provided link, connect Freqlux to your computer via USB-C. Neon Collector will automatically recognize your device. (www.hotone.com/support/3)

Technical Specification

Featrue	Specification
Input jack	1×6.35mm (1/4") TRS Jack
Output jack	2×6.35mm (1/4") TRS Jack
MIDI/EXP jack	2×3.5mm (1/8") TRS Jack
USB jack	USB 2.0 Type-C
Input impedance	1 Meg Ohm
Output impedance	1K Ohm
A/D&D/A	High-performance 32-bit
DSP	32-bit processing
SNR	115dB
Frequency response	±0.1dB, 20Hz~20kHz
Max input level	+13dBu
Bypass	Analog Dry Thru + Buffer
Power supply	9V DC, 0.5A (Center Negative)
Dimensions	125.5mm(W)×84mm(D)×62.5mm(H)
Weight	485g