

# PULSE CONTROL

Wireless MIDI Controller

## User Manual

For Firmware V1.0.3



**HOTONE**  
DESIGN INSPIRATION

※ In the interest of product improvement, the specifications and/or the content of products (including but not limited to appearances, packaging design, manual content, accessories, size, parameters and display screen), are subject to change without prior notice. Please check with local supplier for exact offers. Specifications and features (including but not limited to appearances, colors and size) may vary by model owing to environmental factors, and all images are illustrative.

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# Welcome

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Thank you for purchasing a Hotone product.

Please read this manual carefully to get the most out of your Pulze Control.

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 from 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

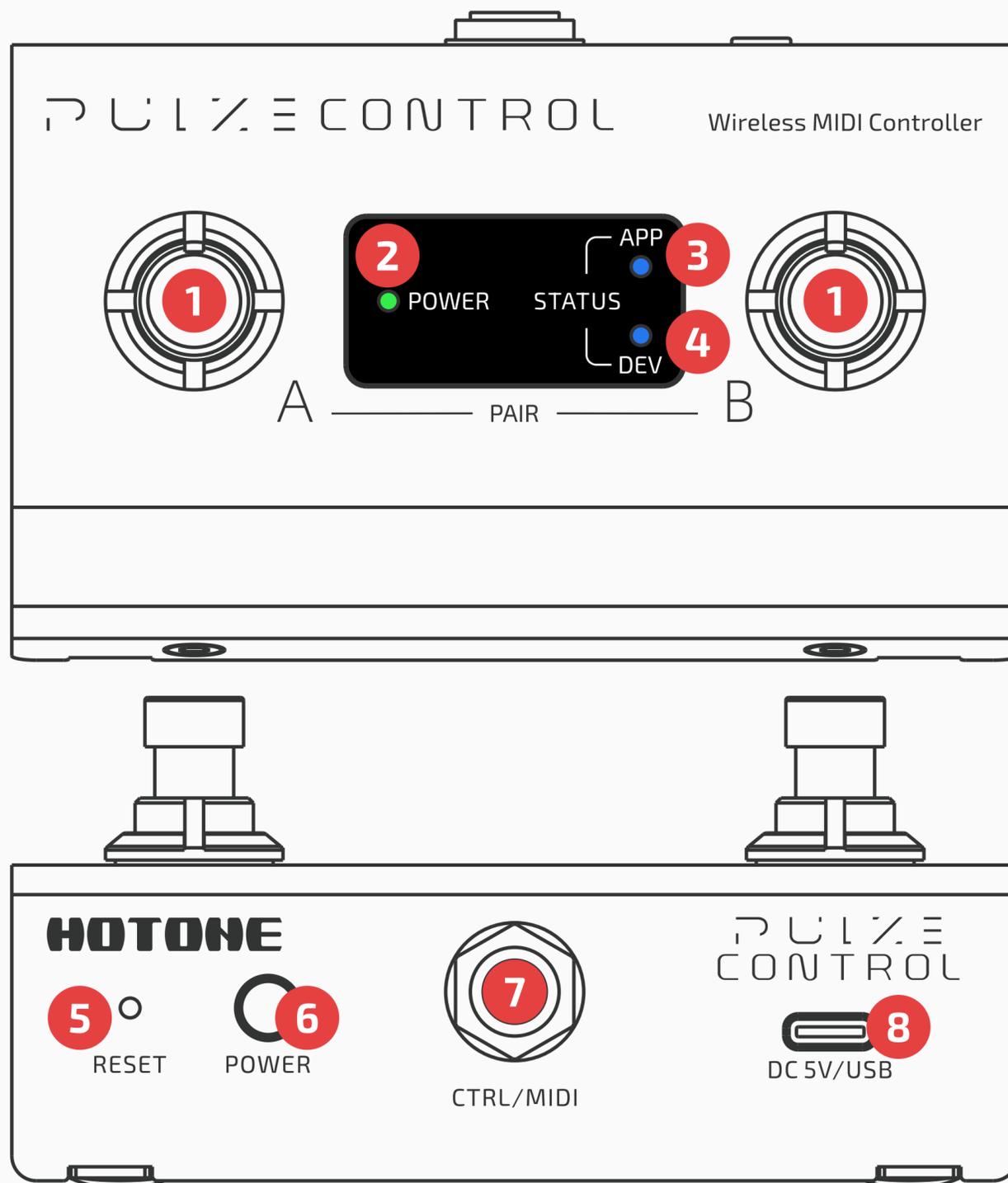
Please prepare information including the model name, serial number, specific symptoms related to the malfunction, your name, address and telephone number, etc.

You can contact the store where you bought the device, or contact Hotone support ([service@hotoneaudio.com](mailto: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



**1. Assignable footswitches:** For sending MIDI messages, wireless pairing, etc. Hold both footswitches for engaging/disengaging wireless pairing mode (default is on).

The unit will automatically turn on wireless pairing mode when powered on. If there is no connection after a period of time, the unit will automatically disengage wireless pairing mode; in this case, hold both footswitches to re-engage wireless pairing mode.

Note: The wireless pairing mode cannot be turned off if the unit is connected to the app.

**2. Power indicator:** Indicates current power status.

- Green solid – Sufficient battery or fully charged

- Red flash – Battery low
- Red solid – Charging

**3. App connection indicator:** Indicates app connection status.

- Blue flash – Waiting for connection
- Blue solid – Connected
- Off – Wireless pairing mode off

**4. Device connection indicator:** Indicates connection between Pulze Control and other devices:

- Blue flash – Searching for available devices
- Blue solid – Connected
- Off – No connection

**5. Reset button:** Force power off switch triggered by a sim card needle or similar tools.

**6. Power switch:** Hold to switch unit on/off.

**7. CTRL/MIDI:** 1/4" (6.35mm) TRS jack for connecting expression pedal/momentary footswitches or using as MIDI output jack. When using with a device featuring a 5-pin MIDI jack, a converter cable is needed shown as below:

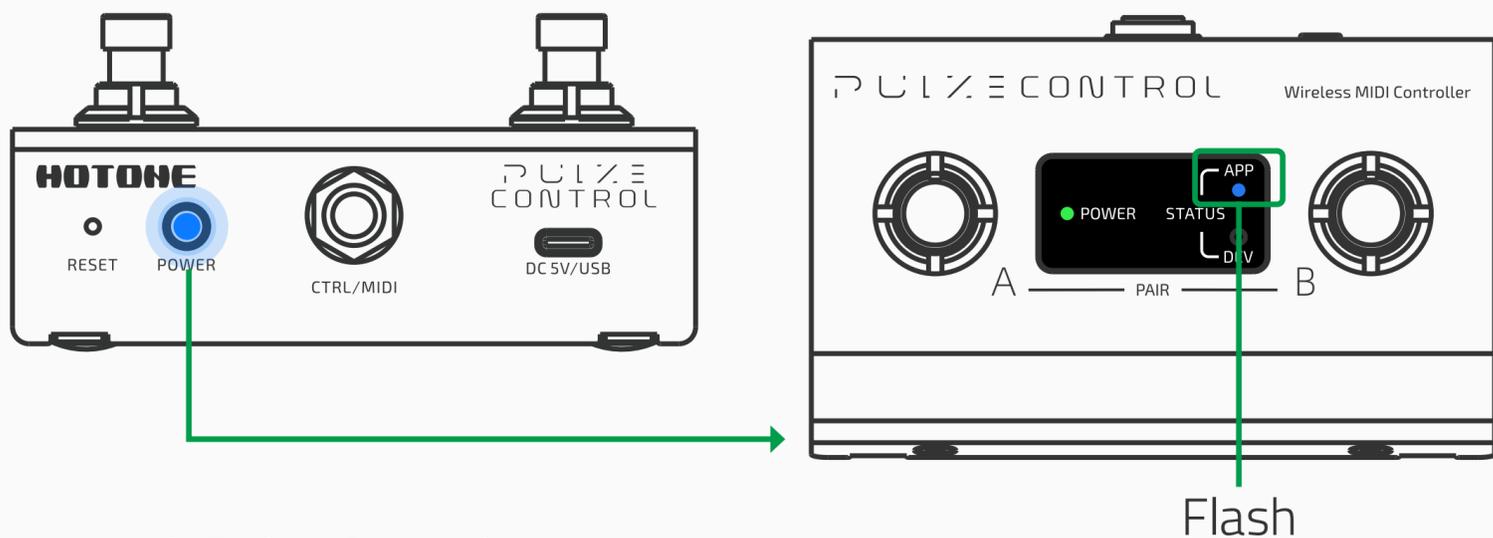


**8. USB-C jack:** For charging or sending MIDI messages.

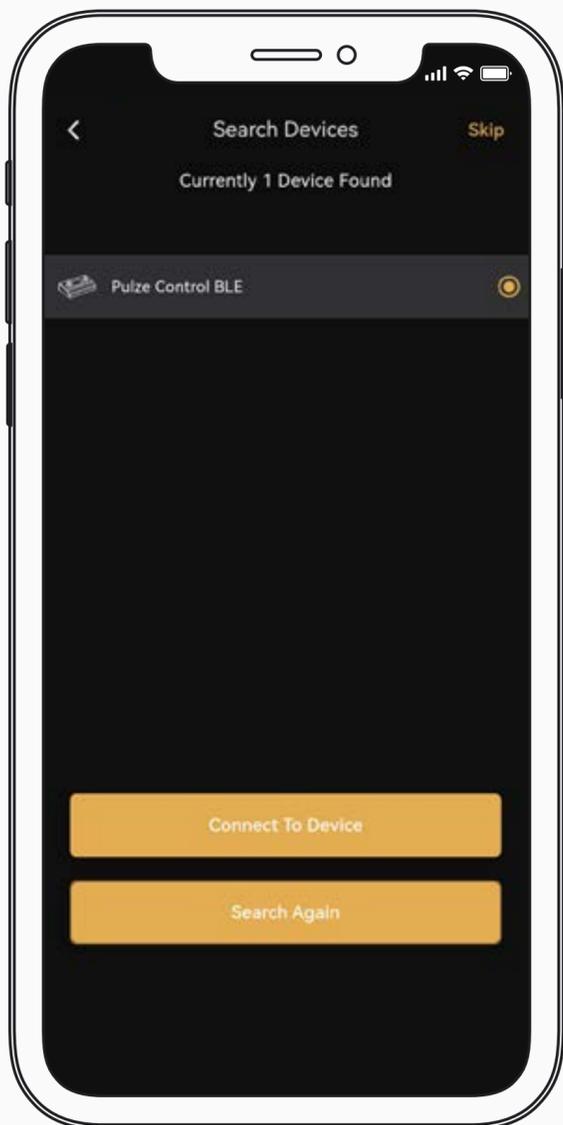
Note: The unit sends same MIDI messages both wired and wirelessly.

# App Connection

1. Hold **POWER** to turn on the unit. The APP indicator will flash to indicate waiting for connection.



2. Launch Pulze Control app.
3. When your Pulze Control appears listed on the device list page (the app will automatically scan all nearby devices), select and tap the "Connect To The Selected Device" button on the screen.



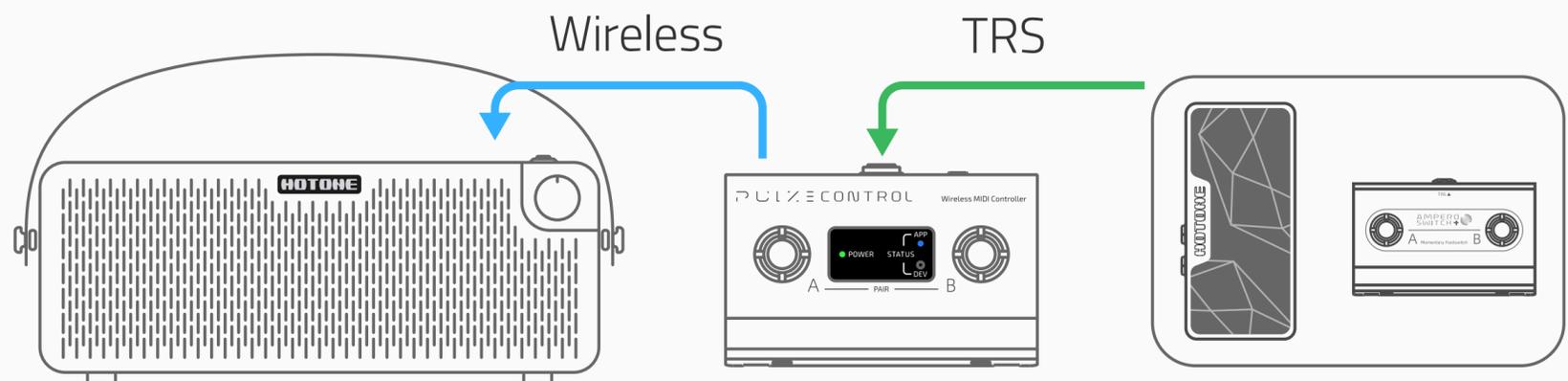
Please note:

1. You can tap "Skip" button on the top right corner to enter offline mode to experience the app.
2. Pulze Control can only be edited by one device at a time. To use other devices, tap "Settings" icon on lower right corner of the screen, find "Connection Status" and enter, then tap "Disconnect".
3. The default device name is Pulze Control. You can rename it if needed.
4. If connection issue occurs, please follow the instructions on the app.

# Scenarios

Here are some recommended ways to use your unit:

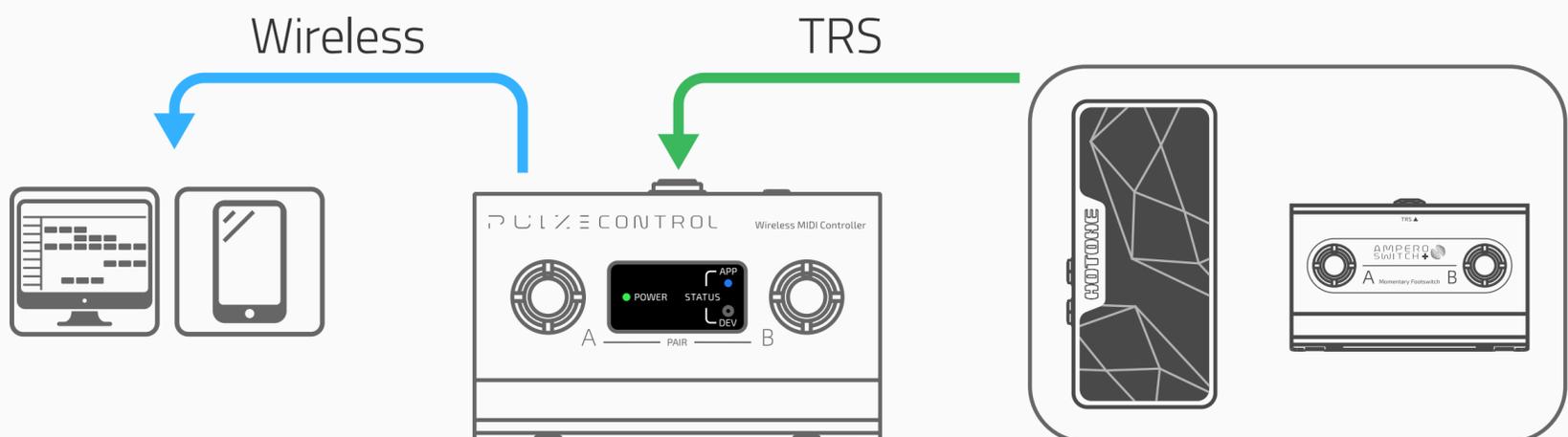
## Using as a wireless controller to control other gear



In this scenario your unit is connected wirelessly to some specific device like Pulze amp. You can expand your controller by connecting expression pedal or momentary footswitches to CTRL/MIDI jack.

You can use Pulze Control app to set your unit while keeping wireless control at the same time.

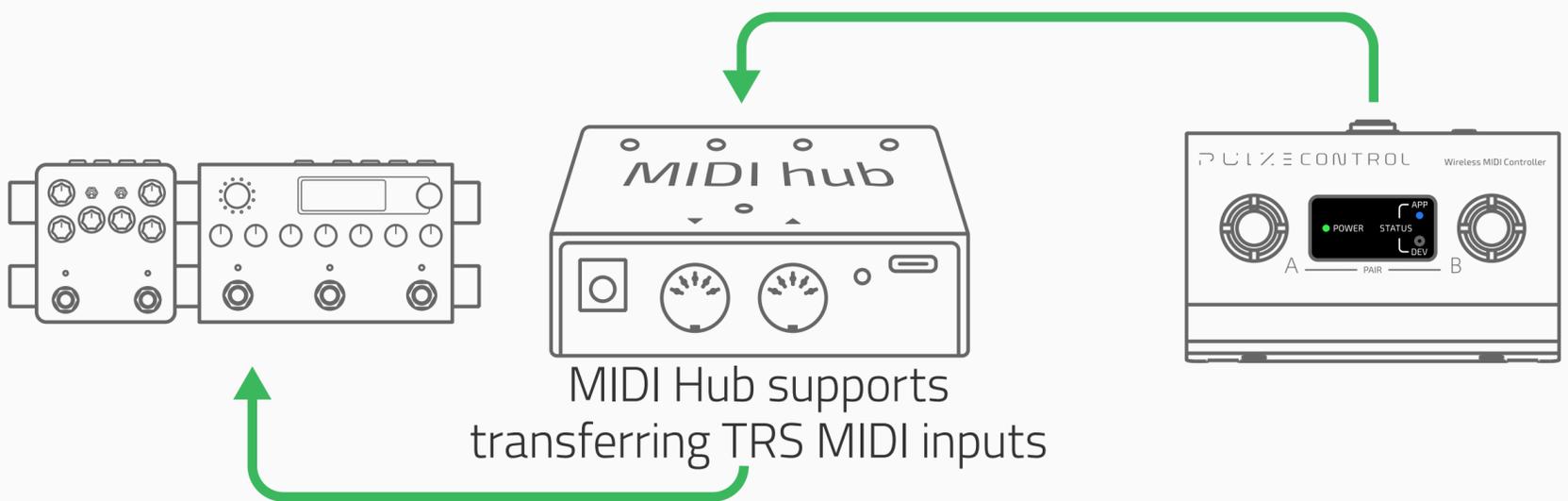
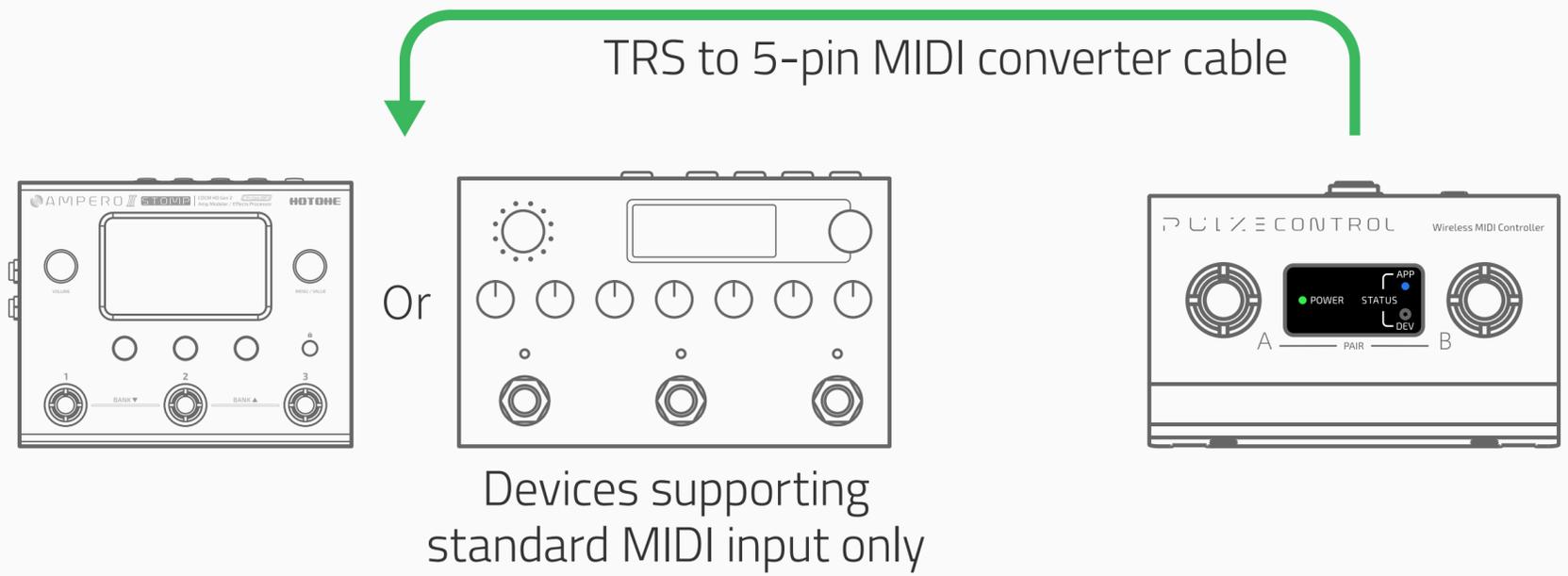
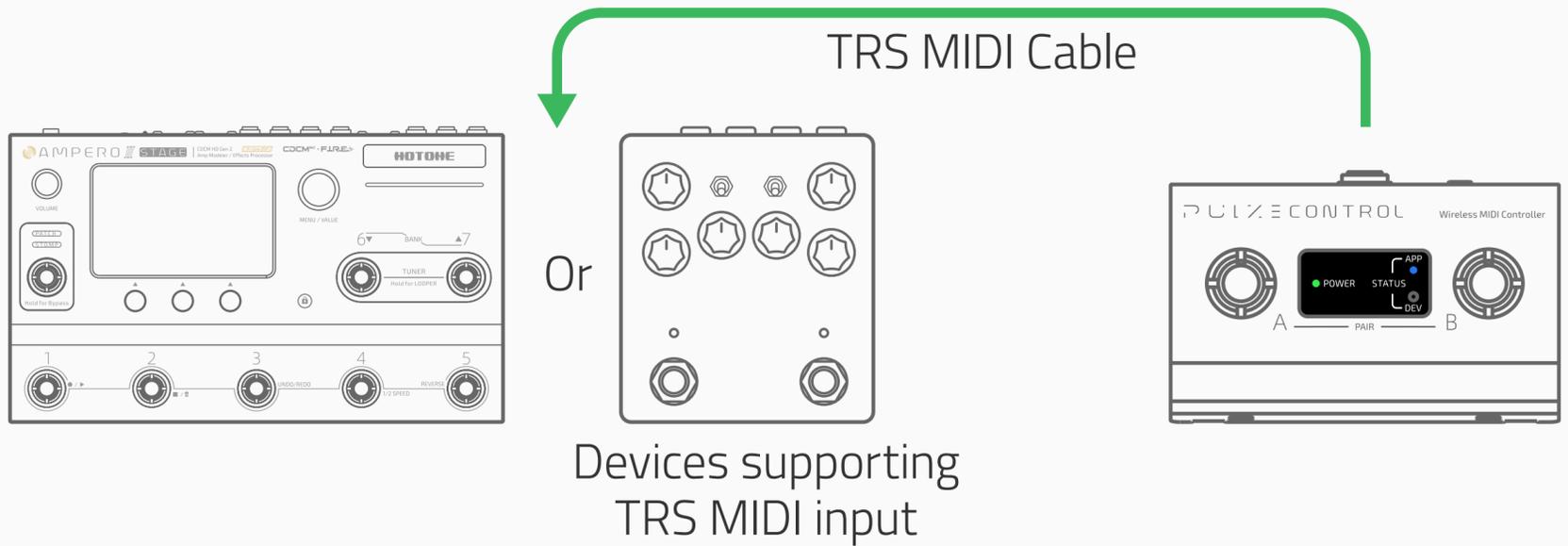
## Using as a wireless controller with a computer

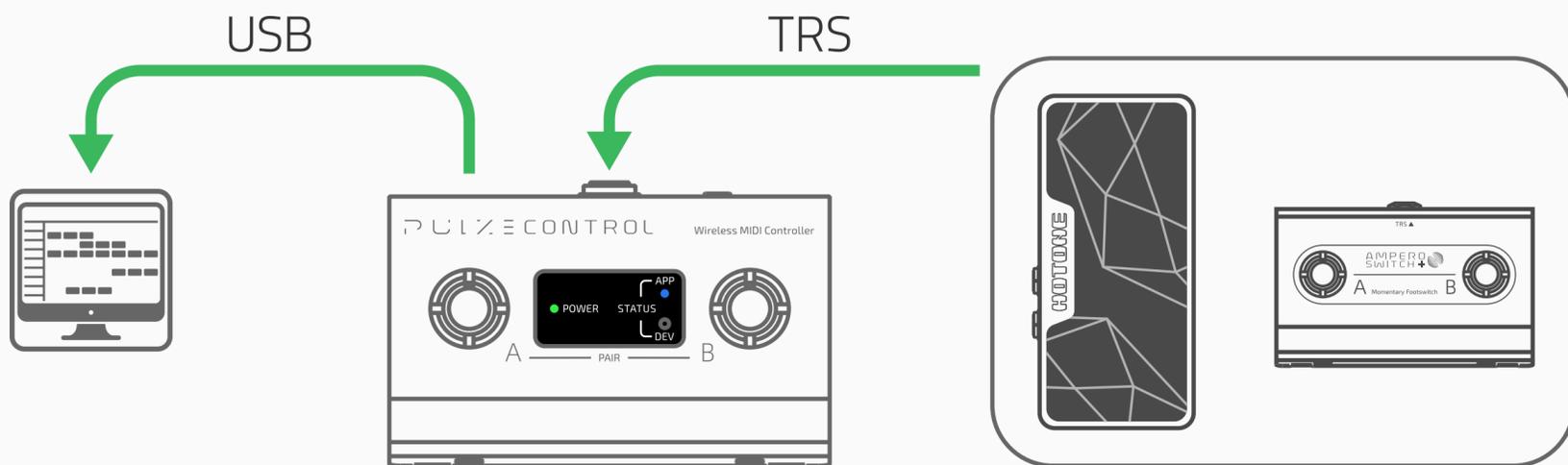


In this scenario your unit is connected wirelessly to your computer. You can expand your controller by connecting expression pedal or momentary footswitches to CTRL/MIDI jack.

In this scenario, you need to disconnect from Pulze Control app first.

### Using as a wired MIDI controller (via USB/TRS MIDI)





In this scenario your unit is connected to device (s) by a USB cable or a TRS MIDI cable:

- Connect to the device (s) with a TRS MIDI cable if the device supports TRS MIDI input; please confirm TRS MIDI connection compatibility before connecting (see CTRL/MIDI).
- Connect to the device (s) with a TRS to 5-pin MIDI converter cable if the device supports 5-pin MIDI input only; please confirm MIDI converter cable compatibility before connecting (see CTRL/MIDI).
- If you're controlling multiple devices (e.g. complex pedalboard), you may need a MIDI hub that supports transferring TRS MIDI inputs: connect the Pulze Control and other devices to the MIDI hub, and setup depending on needs.
- You can expand your unit only when connected to a computer via USB.

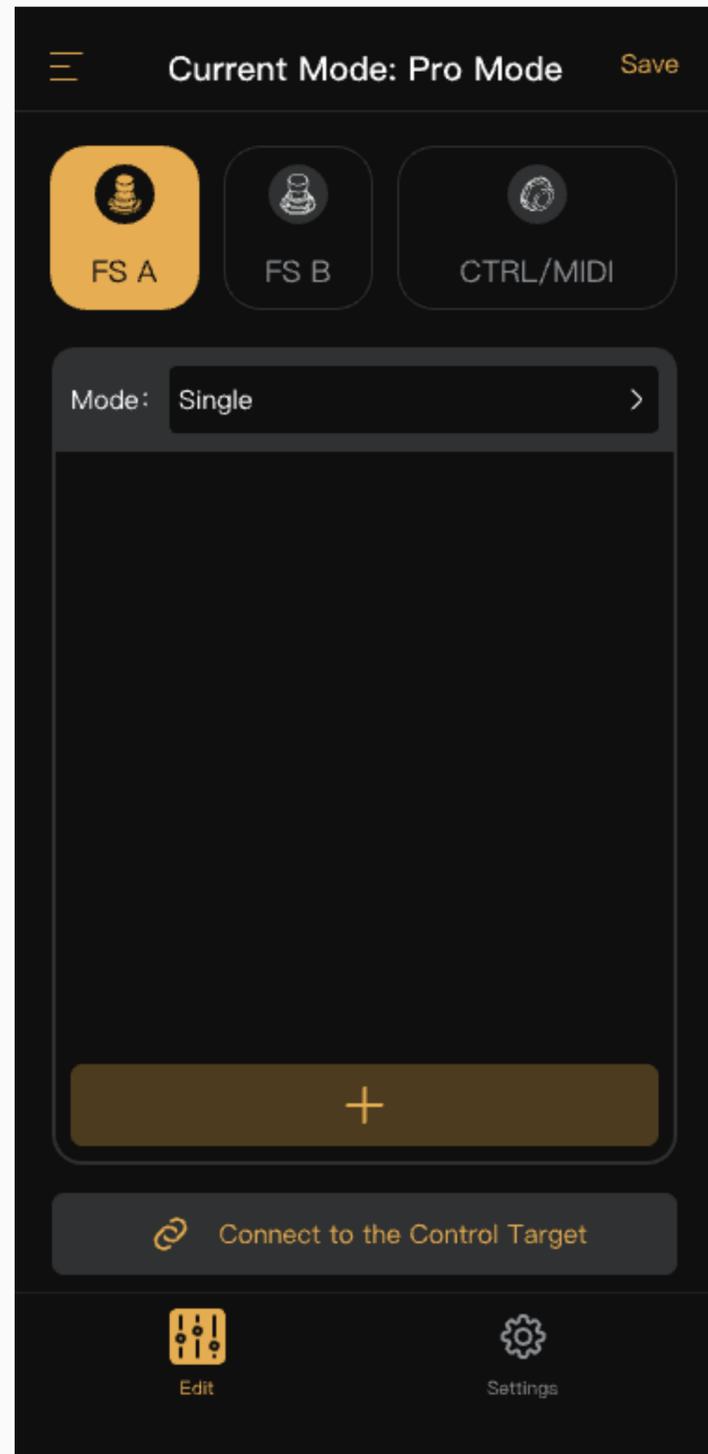
You can use Pulze Control app to set your unit at the same time.

# Edit Page

When your Pulze Controlis connected to your app, the app will enter Edit page (may vary depending on your current mode):

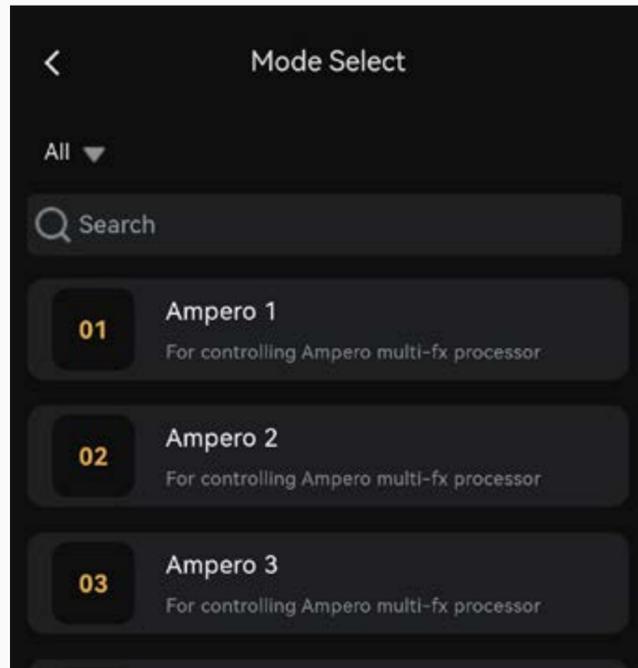


Simple Mode (excl. Pro Mode)



Pro Mode

# Modes



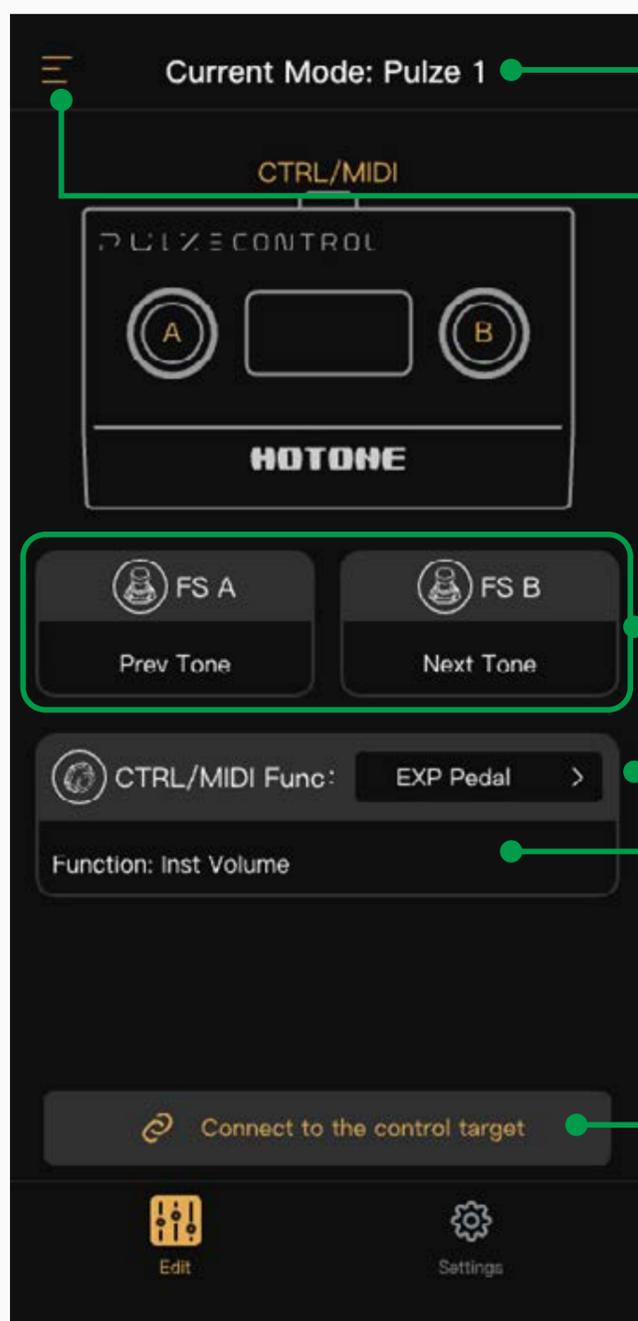
Pulze Control supports multiple modes for different gear.

Tap  button to enter Mode List, then choose a mode to load.

You can use Pro Mode if advanced settings are needed.

## Using Simple Modes

Instructions are shown below:



Mode name

Enter mode list

FS A/B functions

Sets CTRL/MIDI function:  
Connects exp pedal/footswitches or sending MIDI message

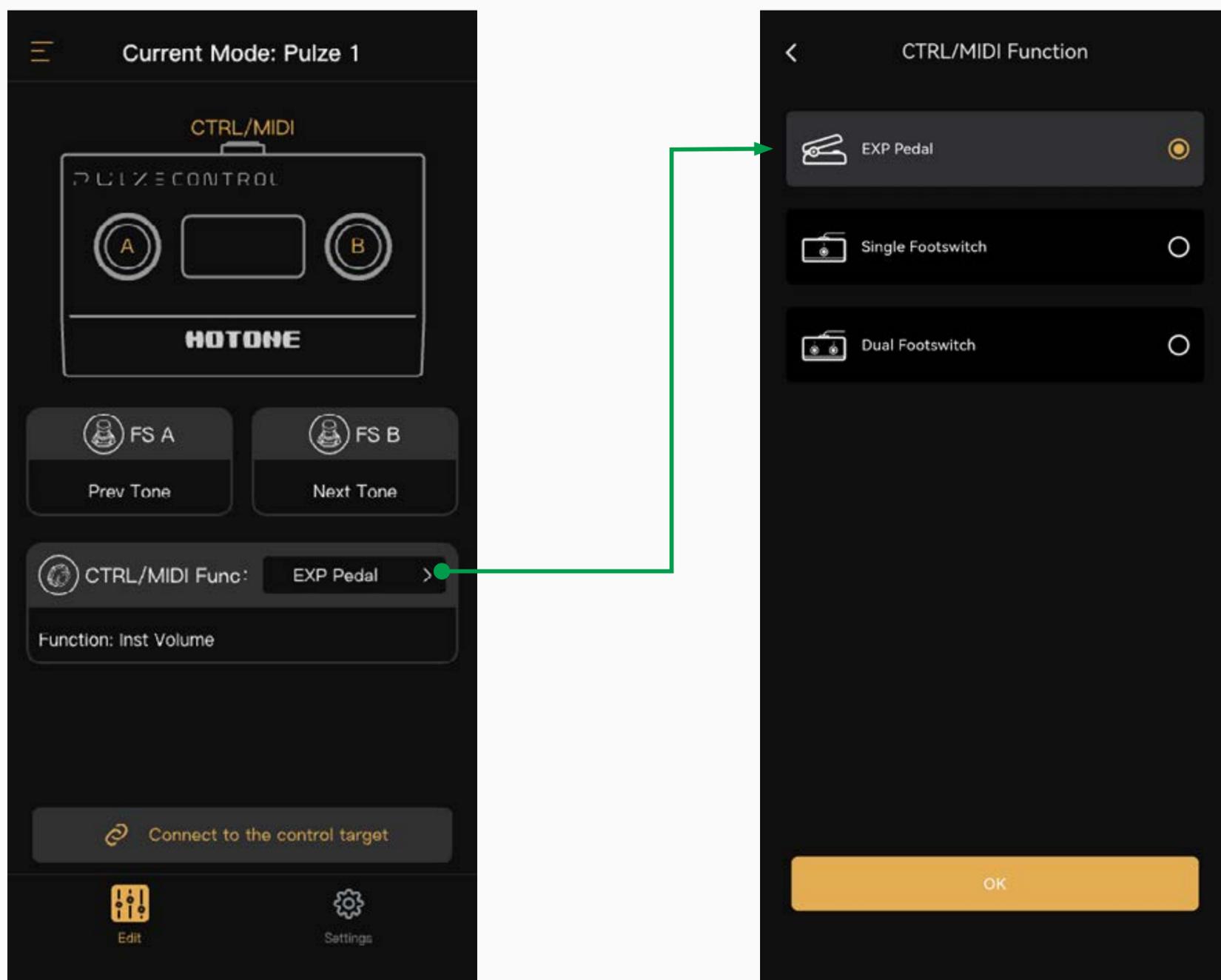
CTRL/MIDI function description  
Varies depending on current mode

When pressing this button, Pulze Control will scan nearby available device then choose and connect to the control target you need

## Setup CTRL/MIDI jack in simple modes

You can setup external controller type or use CTRL/MIDI jack as MIDI output depending on your needs. The function of exp pedal/external footswitch varies depending on current mode, and cannot be edited.

Note: Available CTRL/MIDI function selections depend on current mode: for example, some of the modes don't support MIDI output.



The function descriptions vary depending on your selection:

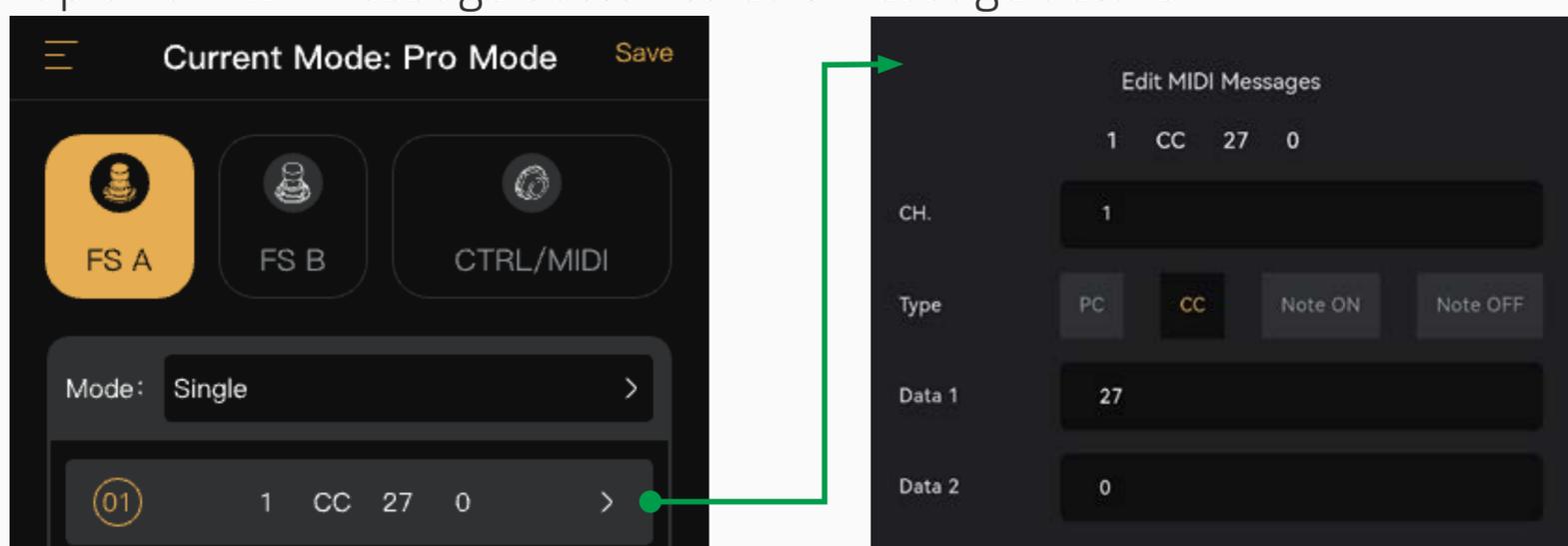
Take Pulze mode 1 as an example: When connecting an exp pedal, the pedal controls inst volume; when connecting to a dual footswitch controller, footswitch A controls drum machine on/off, and footswitch B is for drum tap tempo function.



## Setup a footswitch

Follow the instructions below:

1. Select a footswitch.
2. Select a footswitch mode by tapping mode button. Pulse Control offers 4 footswitch modes:
  - Single: Send same MIDI message (s) when you press the footswitch. MIDI message (s) will be sent when the footswitch is released.
  - Toggle: You can set two different (A/B) groups of MIDI message (s). Press the footswitch repeatedly to send MIDI messages toggling between A/B message groups. MIDI message (s) will be sent when the footswitch is released.
  - Momentary: You can set two different (A/B) groups of MIDI message (s). Press the footswitch to send MIDI message (s) in group A, release the footswitch to send MIDI message (s) in group B.
  - Hold: Hold the footswitch to send one MIDI message or a group of messages repeatedly at regular intervals. You can send the first MIDI message once in the group by single press the footswitch. If so, the MIDI message will be sent when the footswitch is released.
3. Add up to 16 MIDI messages depending on your needs by tapping the  button on the bottom right of the screen.
4. Tap on a MIDI message button to edit message details:



The unit supports 4 MIDI message types: PC (Program Change), CC (Control Change), Note On and Note Off.

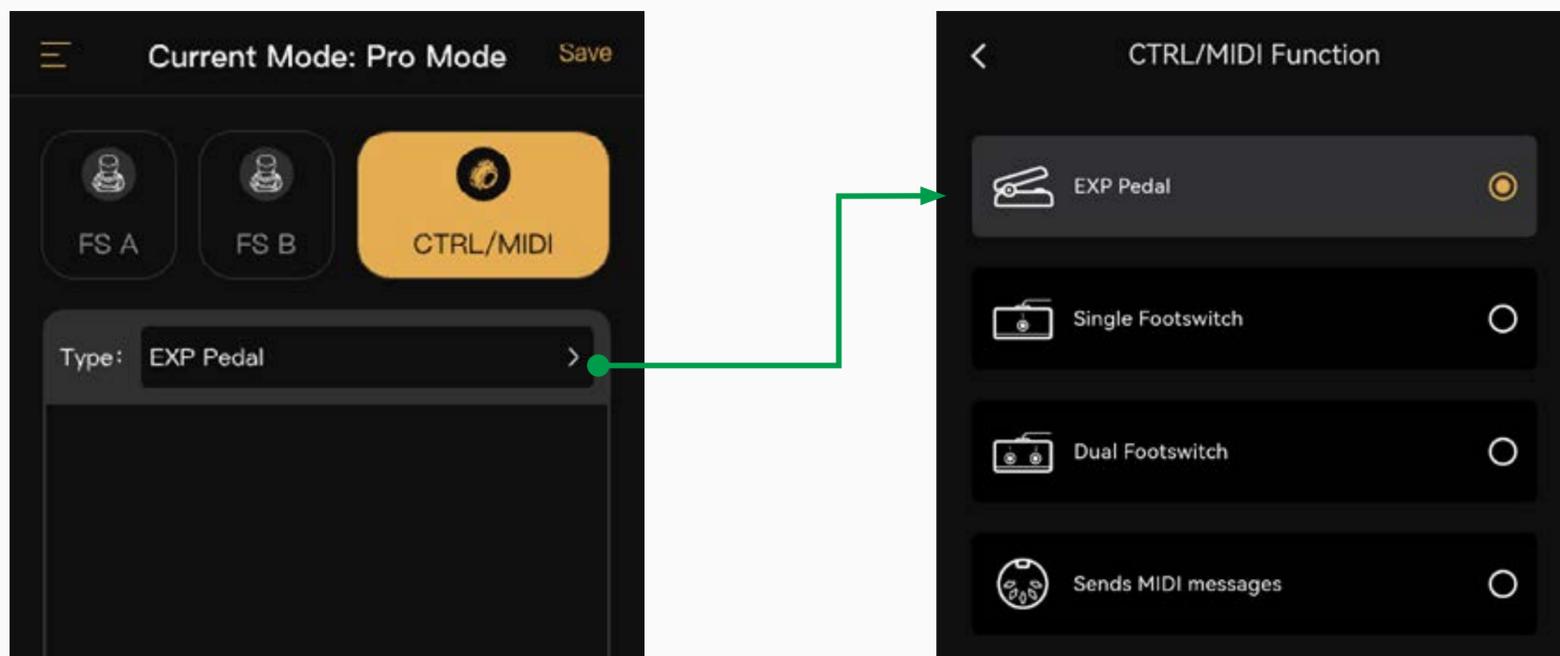
5. After editing all footswitches you needed, don't forget to save your changes by tapping "Save" button on the top right corner of the screen, or all changes will be lost.

## Setup CTRL/MIDI function in Pro Mode

In Pro Mode, when connecting external controllers to CTRL/MIDI jack, you can setup MIDI messages for them. Same as simple modes, you can also use CTRL/MIDI jack as a MIDI output.

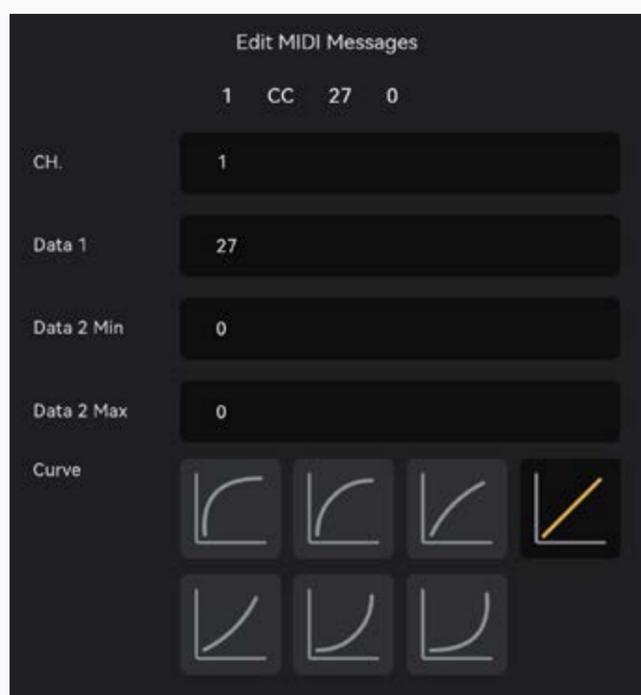
Follow the instructions below:

1. Choose CTRL/MIDI tab (see above);
2. Choose a function depending on your needs:



3. Set MIDI messages for your external footswitch controller depending on your needs if connecting external controllers.

For external footswitches, the functions are the same as built-in footswitches.



For expression pedals, only CC messages are supported, and maximum number of MIDI message is 4.

Use Data 2 Min (fully heel)/Data 2 Max (fully toe) to set a control range; for most situation, just set min=0, max=127.

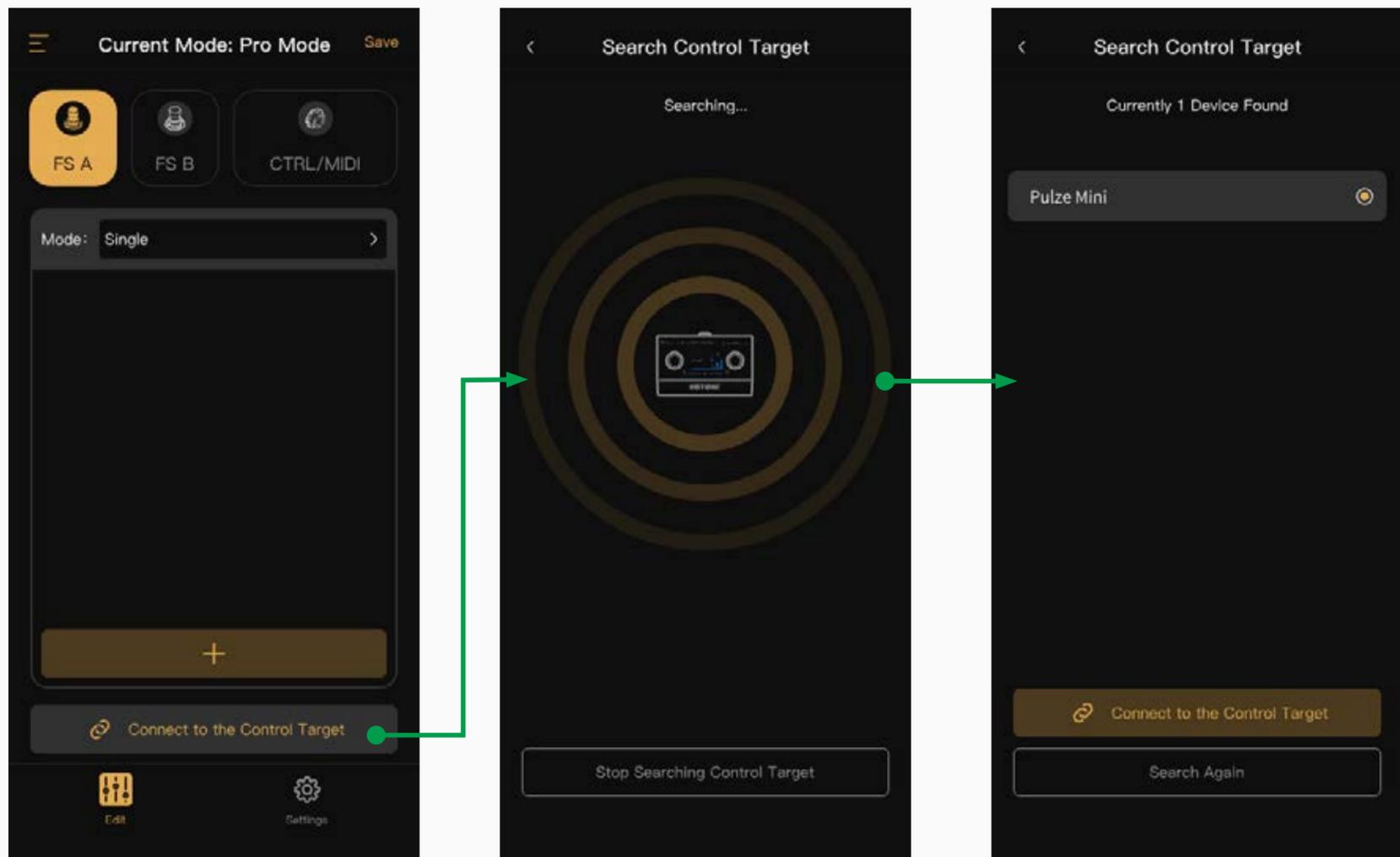
Use Curve to set a variation curve; default is set to Line.

Don't forget to save all your setting after editing.

# Connect to the Control Target (Using Server Mode of Pulze Control)

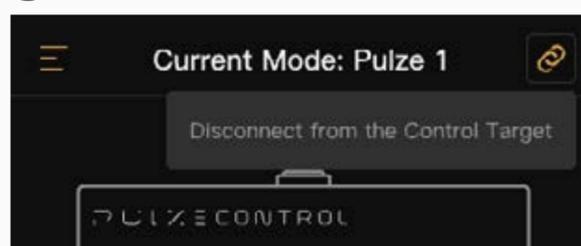
When everything is set, you're ready to connect to your target device wirelessly.

In Edit Page, tap "Connect to the Control Target" button:



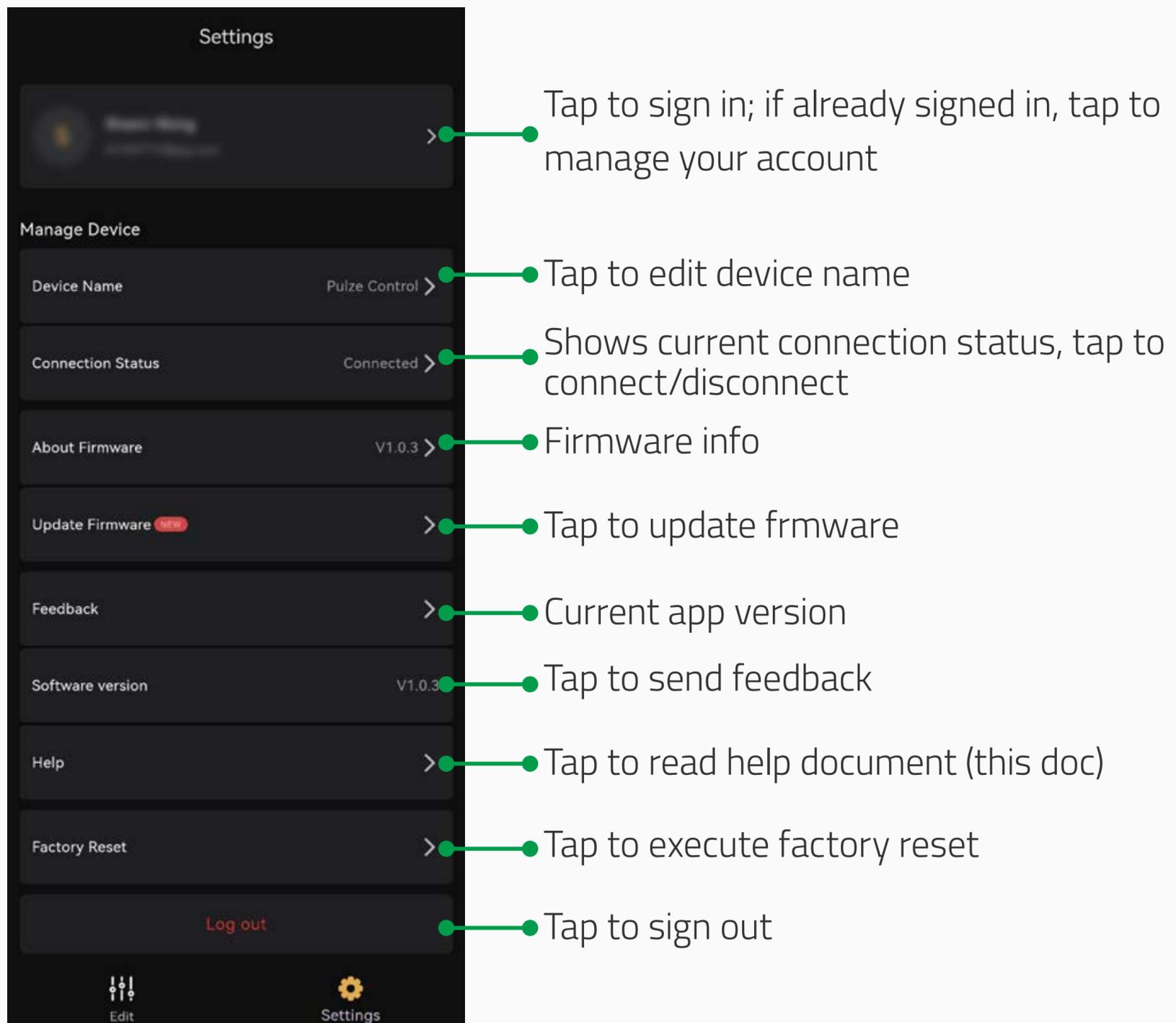
Your unit will automatically scan all nearby devices. When your target device appears listed on the list, select and tap the "Connect To The Control Target" button on the screen. Then the app will go back to Edit Page.

Tap  icon on the top right corner of your screen, then choose "Disconnect from the Control Target" to disconnect:



# Settings Page

This page is for global settings, account related settings, execute firmware update and factory reset:

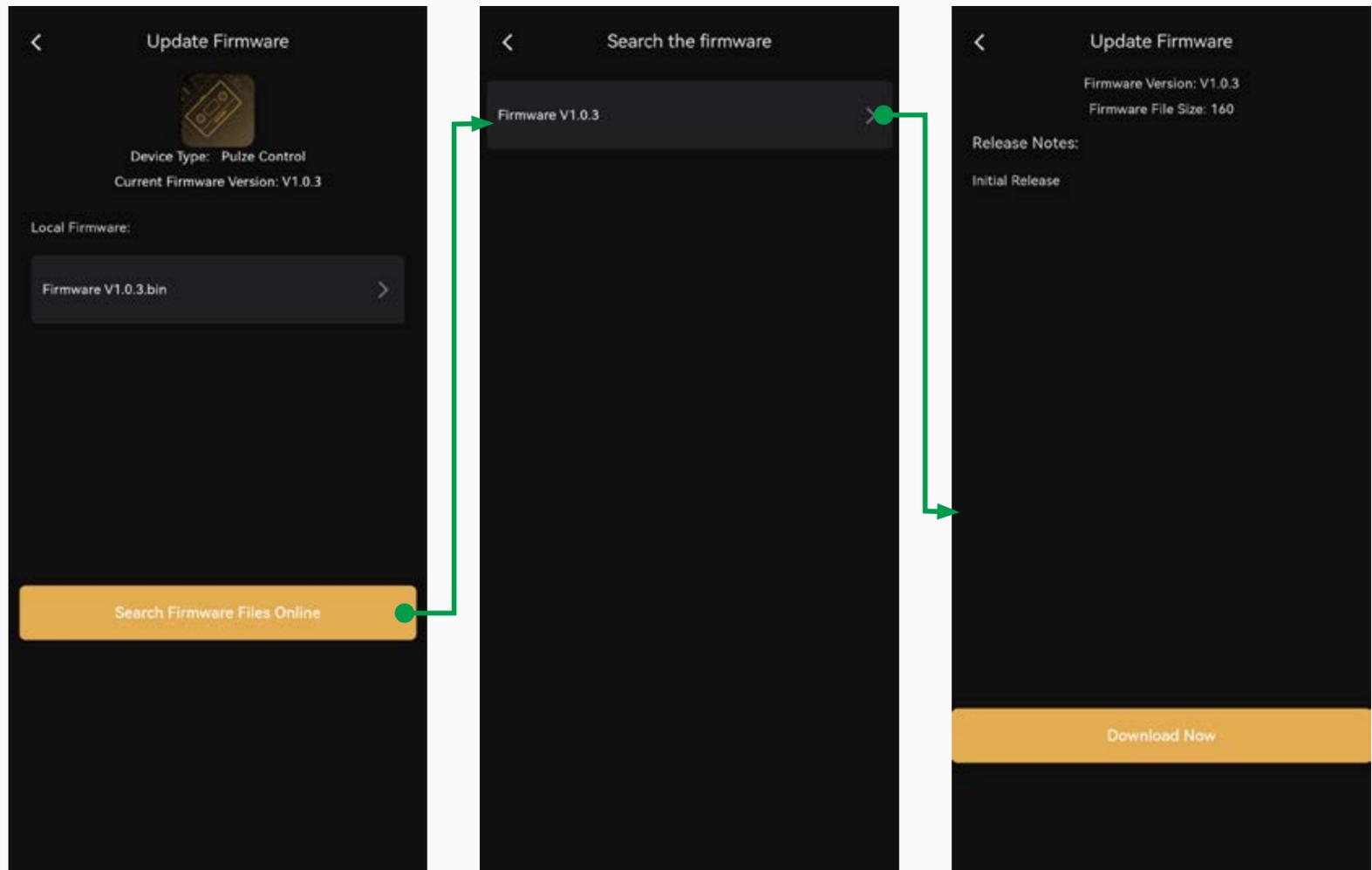


## Firmware update

Follow the instructions below:

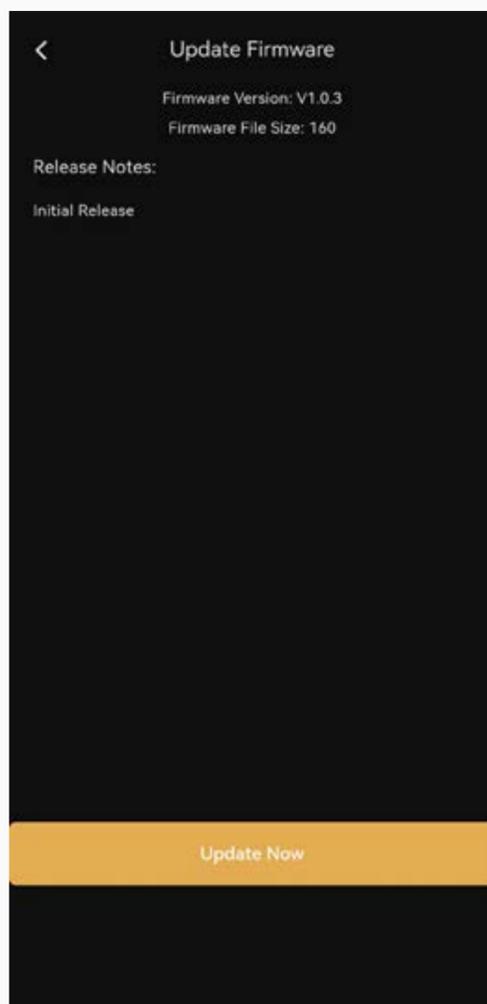
1. Tap "Update Firmware" to enter firmware update menu. If you have downloaded firmware files before, the files will be listed in Local Firmware list.
2. Tap "Search Firmware Files Online" to check online firmware files. Online firmware files will be shown as below ("Downloaded" means you've already downloaded the firmware file to your app).

3. Tap on a firmware file to see detailed firmware info. Click "Download Now" to download the firmware file.



A progress bar will indicate downloading status.

4. Tap "Update Now" button to update firmware:



You can also update your unit directly by using local firmware files (if downloaded). Select a local firmware file (see above) and tap "Update Now" to update your unit with the firmware file you selected.

The update may take several seconds. When finished, you need to manually restart and reconnect your device.

Please Note:

1. Please STAY IN THE FIRMWARE UPDATE PAGE and DO NOT TURN POWER OFF OR DISCONNECT while the update is in progress. Update fail may cause device malfunction.
2. While the update is in progress, please keep your Pulze Control and your smart device within 1m of each other to avoid signal interference.

### **Factory reset**

Tap "Factory Reset" to execute factory reset. This will take several seconds. WARNING: This will clear all your user data.

## **EXP Pedal Calibration**

The calibrate function helps you calibrate your expression pedal. It is important to calibrate the expression pedal if you find your pedal not working or the sweep has very little/too much change while sending MIDI messages.

Follow the instructions below:

1. Connect your expression pedal to Pulze Control's CTRL/MIDI jack.
2. Hold footswitch B while powering up your unit. The POWER LED will flash green to indicate that your unit has entered Expression Pedal Calibration Mode.
3. Fully raise and press down the pedal you need to calibrate at least 4 times. Your unit will automatically process and match your pedal.
4. With the above operation finished, press footswitch B again to save calibration result and execute normal powerup.

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# Specifications

Power: Built-in battery; USB chargeable

Battery Life: 12 hours

Working Range: Max 7.5m

Max. Pot Resistance of EXP Pedal: 25k $\Omega$

Dimensions: 102mm (W) x 63.5mm (D x 47mm (H)

Weight: 215g