AMPERO

Amp Modeler / Effects Processor

USER'S MANUAL

For Firmware V3.2

HOTONE
DESIGN INSPIRATION

Contents

Welcome

Thank you for purchasing a Hotone product.
Please read this manual carefully to get the most out of your Ampero.
Please keep this manual to use for further reference.

Notice

Please read this manual carefully. It contains information regarding the proper use of this product and other important information.

Warning
• Do not open the casing or attempt to modify the product or power supply. Hotone will not be responsible for product damage or bodily harm should the product be tampered with.
• To reduce the risk of hearing damage, do not use headphones at high volume for an extended period of time. Should you notice discomfort, discontinue use and see a medical professional immediately.
• Children using this product should be accompanied by an adult.

Environment
Avoid using the unit in any of the following conditions that could cause malfunction:
• Extreme environment (extremely hot or cold places, near heaters and other heat sources, under strong sunlight, etc.)
• Sandy or dusty places
• Places that are extremely humid or exposed to splashing water
• Places with lots of vibrations

Power Supply Safety
• Always use a DC 18V center negative adapter. Use of an adapter other than that specified could damage the unit or cause malfunction and pose a safety hazard.
• Always connect the adapter to an outlet that supplies the rated voltage required by the adapter.
• When disconnecting the adapter from an outlet, always pull the adapter itself. Pulling the cable will cause damage to the unit. Make sure to separate the power adapter and store in a safe place.
• During lightning storms or when not using the unit for an extended period, disconnect the adapter from the outlet.
• Make sure your hands are dry when plugging in the adapter.

Operation Safety
• Never put objects filled with liquids on the unit as this could cause electric shock.
• Never place candles and other burning objects on top of the Ampero. Doing so could cause a fire.
• Ampero is a precision device. Do not apply excessive force to the switches and other controls. Do not expose the unit to strong impact or drop it.
• Do not apply excessive force to the touchscreen or casing, which may cause malfunction.
• Do not place foreign objects (liquid or solid) into the product.
• The unit and power supply will become warm with extended use; this is normal.

Connections and Interference
• Turn off Ampero and all other connected devices before connecting any cables to it.
• Disconnect the power supply and other line connections before moving Ampero to another location.
• Ampero is designed to resist external electromagnetic interference, but may produce static in some cases of strong electromagnetic interfere (e.g. high power transformers or wireless TV/phone equipment). Turn off any nearby electromagnetic equipment when using, if possible.
• Like all digital devices, Ampero may experience malfunction and/or loss of data if exposed to strong electromagnetic interference. Please use caution.

Cleaning
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.

Malfunction
• If the unit should malfunction, disconnect the power adapter and turn the power OFF immediately. Then, disconnect all other connected cables. For:
  -Power adapter malfunction
  -The unit or power supply emits an odor
  -Liquids or foreign objects entered the unit
  -The unit has other obvious signs of malfunction (e.g. won't turn on, knobs won't work, won't produce sound, etc.)
Prepare information including the model name, serial number, specific symptoms related to the malfunction, your name, address and telephone number and contact the store where you bought the unit.

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Definitions

Module
Ampero supports the simultaneous use of up to 9 effects. Each is called an "effects module", or simply "module". There are several effects available in each module.

Parameter
Variables that determine the application of an effect are called "parameters". If we imagine each module as a separate effect pedal, then each parameter would be a knob on that pedal.

Patch
The ON/OFF status of each module and the parameter settings are stored in units called "patches". These are your "tones". Use patches to recall, edit, and save your favorite tones.

Bank
A set of 3 patches is called a "bank". Ampero has a total of 66 banks, including 33 editable player (user) banks and 33 factory banks (F01-F33), which can be adjusted by not saved.

Panel
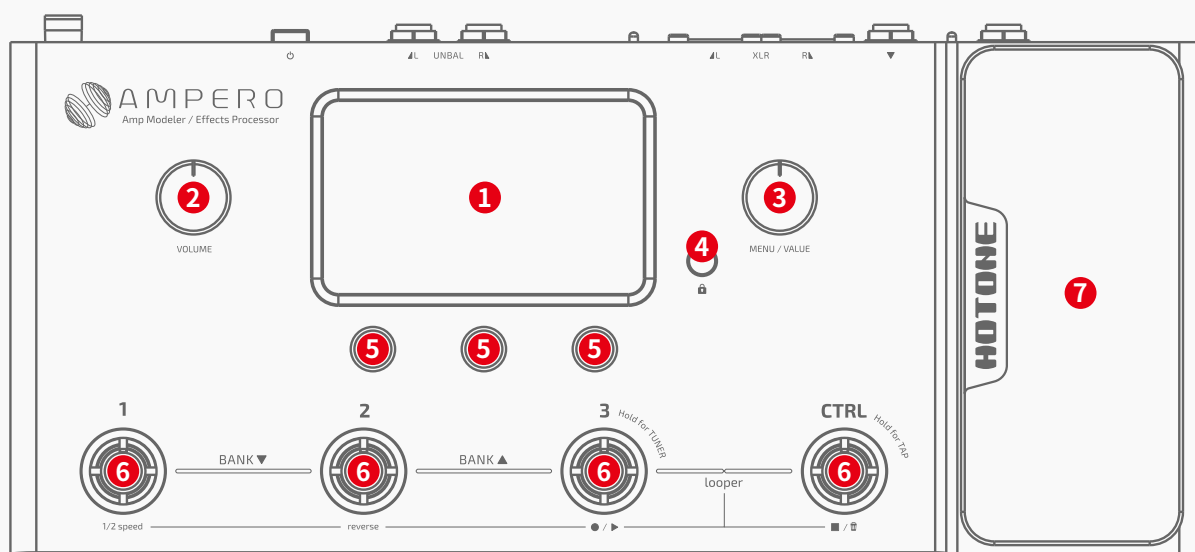
1.Display Screen: Displays Ampero's current status. Use the touchscreen to select effects, edit patches, and make tone adjustments.
2.Volume Knob: Adjusts the overall volume of all output connections.
3.MENU/VALUE Knob (Main Knob): Turning or pressing this knob allows you to change menus and adjust parameters.
4.Device Lock Button: Used to lock or unlock the device (excl. volume knob, footswitches and expression pedal).

5.Quick Access Knobs: Use to adjust parameters on the lower part of the screen. Each knob will vary in function according to the parameter on the display.
6.Footswitch: Use to change patches, turn on/off effects, set tap tempo, etc.
7.Expression Pedal: Use to control the parameter of one or several effects, including output volume.

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Panel
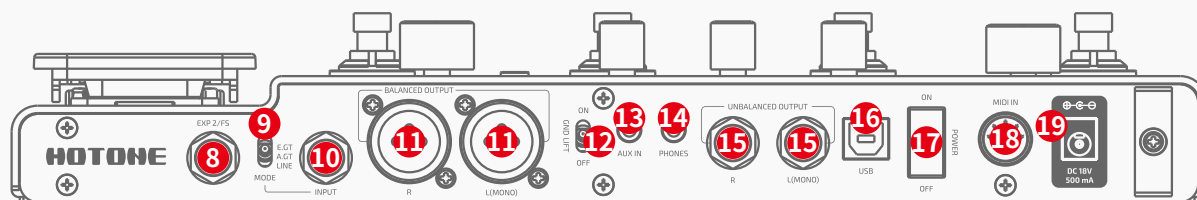
8. EXP 2/FS: 1/4" TRS input, for connecting an external expression pedal/footswitch controller. Perfect for Hotone Soul Press or Bass Press.

9. Input Mode: Selects between input modes optimized for different instruments.

  a. E.GT: Electric guitar or bass

  b. A.GT: Acoustic guitar or other acoustic instrument

  c. LINE: Keyboard or synthesizer

10. INPUT: 1/4" Mono input connection for guitar or other instrument.

11. BALANCED OUTPUT: Balanced stereo XLR output connections to mixer or audio interface. For mono output, use only the left balanced output.

12. GND LIFT Switch: Turn the GND LIFT switch ON to cut off the ground connection of the two XLR connectors (Ground Lift) to avoid noise caused by the Ground Loop.Turned OFF, the XLR line will be ground normally.

13. AUX IN: 1/8" stereo input for connecting external devices (phone, MP3 player) for practice and jamming.

14. PHONES: 1/8" stereo output for connecting headphones.

15. UNBALANCED OUTPUT: Unbalanced 1/4" TS stereo output connections to amplifiers or other equipment. For mono output, use only the left unbalanced output.

16. USB: USB 2.0 Type-B connects to your computer for use with Ampero software, or as a USB audio interface.

17. Power Switch: Turns power on/off.

18. MIDI IN: Standard 5-pin MIDI IN for connecting a MIDI controller. Perfect for Hotone Cybery.

19. Power Supply Connection: Power supply input (18V DC center negative).

Getting Started

1. Connecting your Device

Plug your guitar in to the Ampero input jack and run a cable from UNBALANCED OUTPUT L to your amp. Please remember:

  (1) Keep your amp volume down.

  (2) Connect your cable to the amp's FX Loop Return if it has one. .

  (3) Make sure to select the correct input mode based on what kind of instrument you have: E.GT for electric guitar or bass, A.GT for acoustic instruments, LINE for keyboards.

2. Turn the Ampero volume knob all the way down, then connect the power supply and turn Ampero ON.

3. Calibrate the strings. Press and hold footswitch 3 until the TUNER comes on the display screen. .

Pluck each string and tune until the pitch reaches the middle of the screen and turns green, as below:

When finished, tap the footswitch again to exit the tuner.
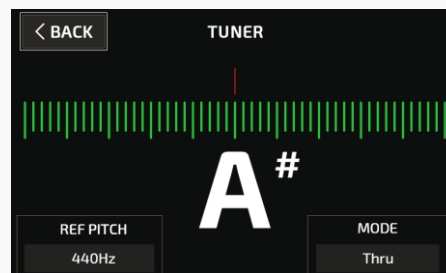
4. Select a patch:

Tap footswitch 1, 2, or 3 to choose a patch you like.

Tap footswitches 1 and 2 together to move backward through the banks. Tap footswitches 2 and 3 together to move forward through the banks.

Main Display Screen

When Ampero is turned on it will display the main screen, as shown below:

1. Current patch number
2. Current patch name
3. Patch selection back button
4. Patch selection forward button
5. Effects parameters controlled by quick access knobs. Pressing the parameter name allows you to change the parameter you're controlling. See page 9.
6. CTRL/EXP gives you access to control settings. See page 9.
7. DRUM opens the drum machine settings. See page 5.
8. GLOBAL opens the global settings page. See page 14.
9. EDIT allows you to edit the current patch. See page 7.
10. Indicates the status of the built-in expression pedal (lit up when on, gray when off)
11. Indicates device lock status
12. Indicates the current patch tempo

Using the Screen

Touch operation

Changing patches and editing settings can all be done with the touchscreen.

Quick Access Knobs

The quick access knobs allow you to change the values of the three parameters directly above on the touch screen.
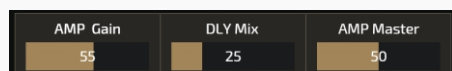
Main Knob

Turning the main knob lets you select the object you want to control. That object will light up when selected, then press the knob to confirm the selection.

• If the object selected is a button, it will respond as if you'd touched the button on the touchscreen.

• If the object selected is a parameter, you can use the main knob to adjust the parameter value. Pressing the main knob again will take you back to selection mode.

Reminder: The details of Ampero's use and programming may slightly vary under certain operational circumstances. Please read this manual carefully to get all the necessary information.

Ampero Tools

Ampero is equipped with some great tools to expand your playing experience: a tuner, drum machine, looper, and expression pedal.

TUNER

In default mode, pressing footswitch 3 will open the tuner.

In tune

Exit tuner

Pitch flat

Pitch sharp

Indicates the current note name

Adjusts the pitch calibration

Selects tuner mode

On the upper part is a scale that indicates your pitch. Left of center is flat, and right of center is sharp. As you tune your instrument towards the middle, the color of the scale will change from red (out of tune) to yellow (near pitch) to green (in tune).
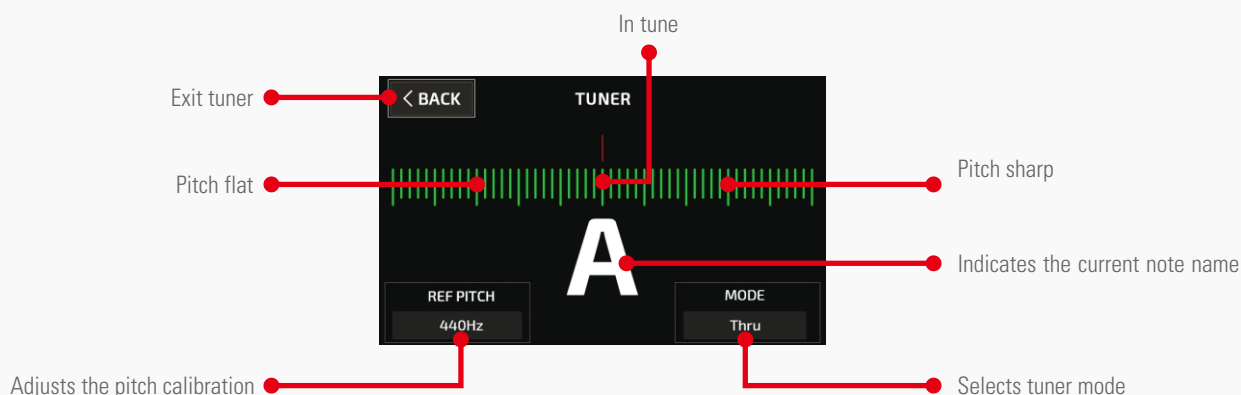Quick access knob 1 adjusts the pitch calibration (REF PITCH), ranging from 432Hz to 447Hz. Standard pitch is set at 440Hz.

Quick access knob 3 lets you select the tuner mode from Bypass (for dry signal through), Thru (for effect signal through) or Mute (for silent tuning).
You can exit the tuner either by pressing any footswitch or by pressing the Back button on the touchscreen.

DRUM

Select DRUM on the main screen to access the drum machine.

Exit the menu

Play/stop button

Selects a drum rhythm

Controls drum speed

Controls drum machine output
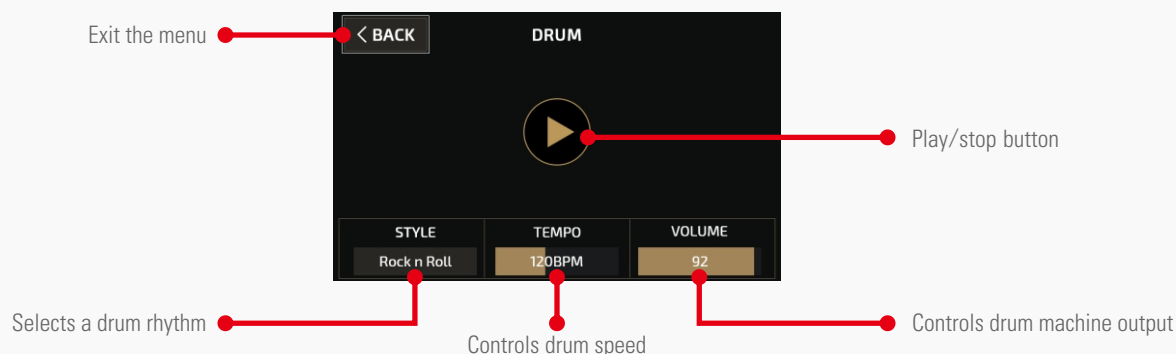
Quick access knob 1 scrolls between genre styles. Ampero has 100 drum styles. See page 39.
Quick access knob 2 adjusts the drum tempo, ranging from 40BPM-250BPM.

Quick access knob 3 adjusts the drum volume from 0-99.
Exit the drum machine menu by pressing BACK at the top left. Exiting the menu will not stop the drums from playing.

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LOOPER

In default mode, pressing footswitch 3 and the CTRL footswitch together will open the looper menu.

Exit looper
Current looper status
Reverse on/off switch
1/2 speed on/off switch
Drum machine on/off switch
Drum sync on/off switch

Record/play time
Record/play progress bar
Clear all recorded data
Next patch
Previous patch

Controls looper recording level   Switches looper position   Controls looper playback level
(pre/post effects)

The progress bar at the top will be shown in red during recording and overdubbing. It will be shown in green in play mode.
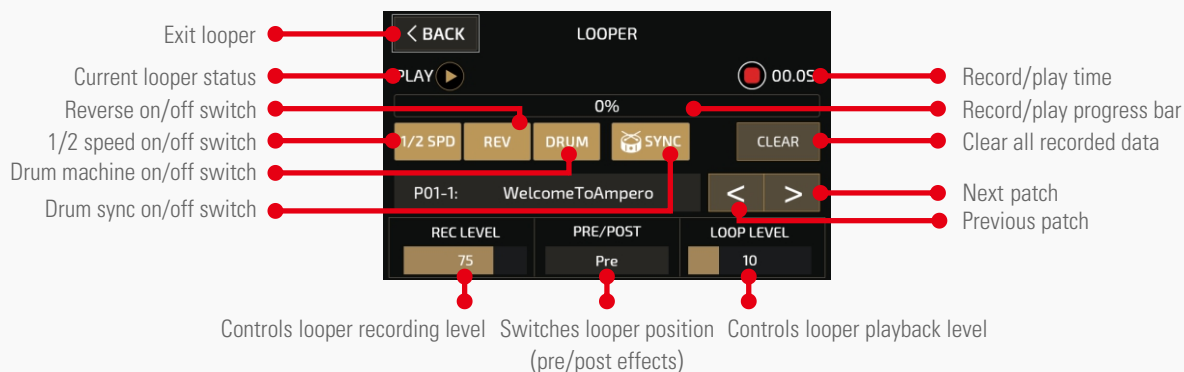Footswitch 1 controls start (yellow LED) and stop (yellow LED closed) for half speed playback. Footswitch 2 controls the start (white LED) and stop (white LED closed) for reverse playback. These footswitch controls correspond with the 1/2 SPD and REV buttons on the touchscreen.
When you record phrases with drum rhythms, you can sync drum rhythms to your loop phrase by turning on drum sync switch. Please note that some unusual operations (e.g. randomly play/stop looping/drum machine or change drum style/tempo) may break the sync status. Switching 1/2 SPD and REV on/off won't affect this.

Quick access knob 1 adjusts the loop recording level from 0-99.
Quick access knob 2 selects between setting the loop before (Pre) or after (Post) your effects chain.
• In Pre mode, the looper will record mono audio without any effects, up to 100 seconds.
• In Post mode, the looper will record stereo audio with effects, up to 50 seconds.
Quick access knob 3 adjusts the loop playback volume from 0-99.
Exit the looper by pressing BACK on the upper left of the screen.

Looper operation and status modes:

Operation	Function/Status	LED Color (FS 3)	LED Color (CTRL)
On with no data	Stop	None	None
Stop	Stop	Flashing green	Flashing green
Tap footswitch 3 when there's no data	Record	Steady red	None
Tap footswitch 3 while recording, overdubbing, or paused	Play	Steady green	Steady Green
Tap footswitch 4 while loop is playing	Stop	Flashing green	Flashing green
Tap and hold CTRL footswitch	Clear	Quickly flashing green	Quickly flashing green
Each time a recorded loop plays from the beginning	Play	Single flash	Single flash

Reminder:
1. When the loop recording reaches it's time limit, the looper will automatically stop the recording and begin playback.
2. When the looper is in Post mode, changing patches will not change already recorded loop phrases.
3. Half-speed and Reverse functions will affect all recorded loop phrases.
4. If the looper is switched to a different position while it's running, the loop will automatically stop and be erased.

Ampero Tools

EXP Pedal

You can either use the built in expression pedal (EXP 1) or connect your own (EXP 2) to control various Ampero paramaters.

Some of Ampero's preset patches have been set up to use the built in expression pedal. These can be used without any further setup. For more on expression pedal settings. See page 12.
To turn the built in expression pedal on, press the pedal all the way forward so it clicks. When the built-in expression pedal is on, the LED under the pedal will turn green, and this icon will show up on the Main Display screen to indicate it is on:

EXP 1 ON

Reminder:
1. When the built in expression pedal is off, it continues to work as a volume pedal for Ampero. For more on volume pedal settings, see page 12.
2. You can use CTRL footswitch to switch built in expression pedal on/off. See page 9.
3. If your external expression pedal has an off switch and is turned off, it will not function.
4. If you use an external expression pedal, the display won't show any message when it is connected. As soon as you connect and turn on an external expression pedal, it will function to control the effects parameter determined by the current patch. If the current patch does not have any effects controllable by expression pedal, the pedal will not function. See page 13.

Customizing Your Ampero

This section will show you how to customize your Ampero's settings, edit patches, setup the expression pedal, and change other features to your taste.

EDIT

Edit your patches to get the tone you want.
Remember that turning the modules on/off and adjusting parameters will change the current patch. If you switch patches or turn Ampero off before saving your changes, the changes will be lost.
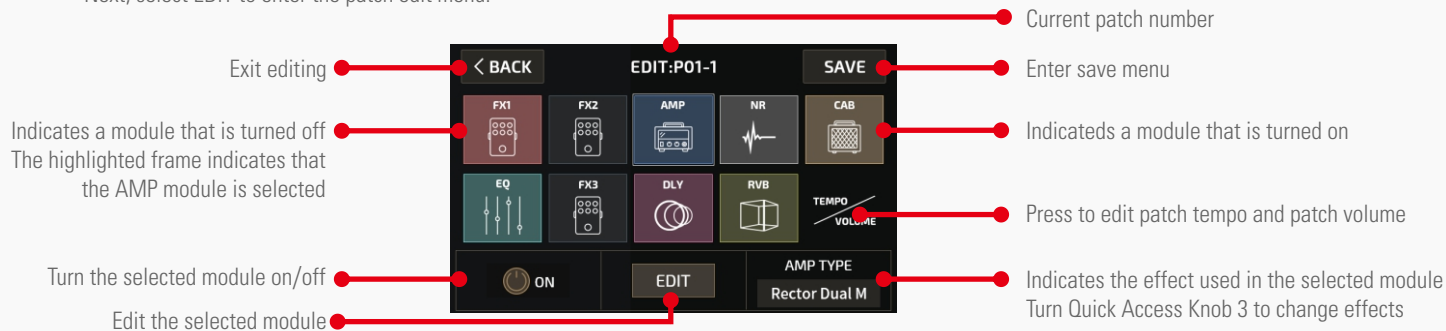Make sure to press SAVE on the upper right of the display screen to save your settings.

Patch Edit Menu
Select a patch from the main menu by using the forward/backward arrows on the screen.
You can also select a stored patch by pressing any of the three numbered footswitches. Scroll back (press 1 and 2 together) or forward (press 2 and 3 together) through patches using the footswitches.
Next, select EDIT to enter the patch edit menu:

Current patch number

Exit editing

Enter save menu

Indicates a module that is turned off
The highlighted frame indicates that the AMP module is selected

Indicateds a module that is turned on

Press to edit patch tempo and patch volume

Turn the selected module on/off

Indicates the effect used in the selected module Turn Quick Access Knob 3 to change effects

Edit the selected module

The menu is made of ten icon squares representing Ampero's nine effects modules and a volume/tempo module.
The default signal chain is ordered like this:

Fx1 (select one)-FX2 (select one)-AMP (amp simulator)-NR (noise reducer)-CAB (cabinet simulator)-EQ (equalization)-FX3 (select one)-DLY (delay)-RVB (reverb)

FX1, FX2, and FX3 will hold effects of your choosing.

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Press a square to select that module, then use quick access knob 1 or the on/off button to turn that module on or off. Press EDIT to enter the module edit menu.

You can also use the main knob: turn it to select a module, then press and click it to turn the module on or off. Press and hold the knob to enter the module edit menu.

Quick access knob 3 can also adjust the effect on the current module.

When you select patch volume, use quick access knob 3 to adjust the patch output volume from 0-99.

To move a square to a different position, press a square twice (or turn main knob to select a square and press it twice) to pick it up:
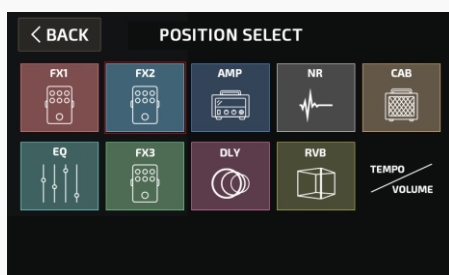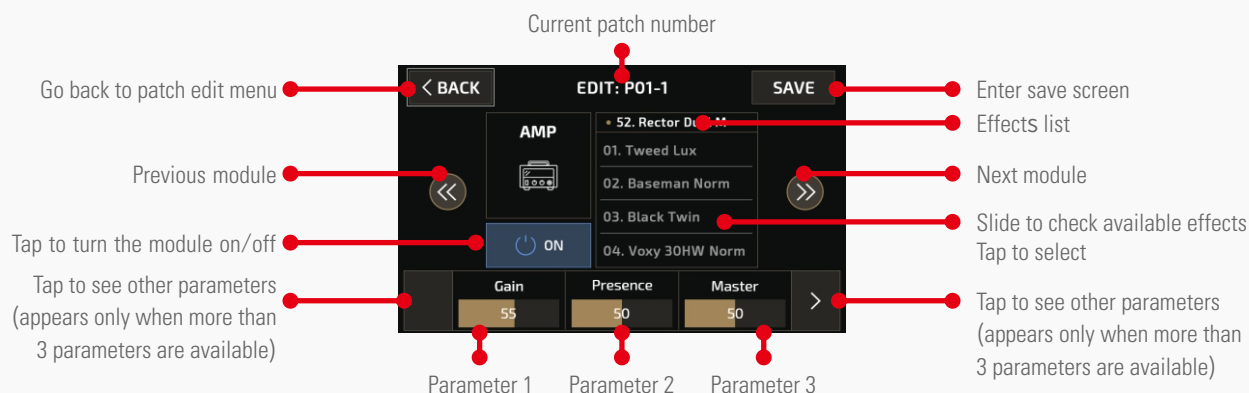

Press another square (or turn main knob to select a square and press) to insert into the selected position:

Reminder: The VOLUME/TEMPO square is fixed at the end.

Module Edit Menu

Current patch number

Go back to patch edit menu

Previous module

Tap to turn the module on/off

Tap to see other parameters
(appears only when more than
3 parameters are available)

Enter save screen

Effects list

Next module

Slide to check available effects
Tap to select

Tap to see other parameters
(appears only when more than
3 parameters are available)

Parameter 1   Parameter 2   Parameter 3

Use the module control panel to edit or turn the current module on/off.

Select an effect from the effects list.

The parameter panel shows the adjustable parameters of the effect selected.

If the selected effect has more than three adjustable parameters, there will be an arrow at the right of the parameter panel. Press the arrow to see the other parameters.

Use the three quick adjust knobs to adjust the parameters directly above the knobs. If there are no parameters corresponding to a certain knob, turning that knob will have no effect.

For more information on modules, effects, and parameters. See page 21.

Reminder: In some extreme cases the signal processor may become overloaded and display a "System Overload" caution.
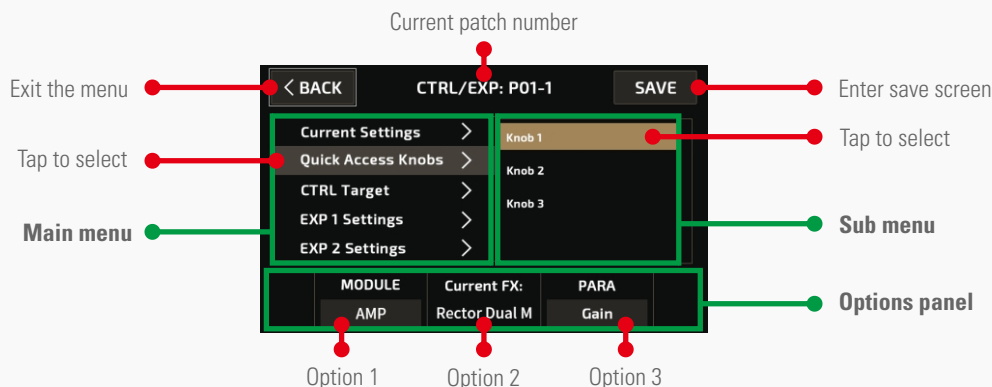
Customizing Your Ampero

Control Settings

Use the control settings to determine the CTRL footswitch and quick access knob targets, setup the expression pedal parameters, and calibrate the expression pedal.

Remember that all the control settings will change as you change patches. If you switch patches or turn Ampero off before saving your changes, the changes will be lost.

Make sure to press SAVE on the upper right of the display screen to save your settings.
Press CTRL on the main menu to enter the control menu.

Current patch number

Exit the menu

Tap to select

Main menu

Enter save screen

Tap to select

Sub menu

Options panel

Option 1   Option 2   Option 3

Make selections from the right and left panels.
Like the effects module parameter menu, the selection panel features three adjustable options. These options will change according to the current menu option.
If the selected menu has more than three adjustable options, there

will be an arrow at the right of the selection panel. Press the arrow to see the other options.
Use the three quick adjust knobs to adjust the options directly above the knobs. If there are no options corresponding to a certain knob, turning that knob will have no effect.

Current Settings

Pressing Current Settings allows you to see the CTRL footswitch function for the current patch, the quick access knobs targets, and the expression pedal target.
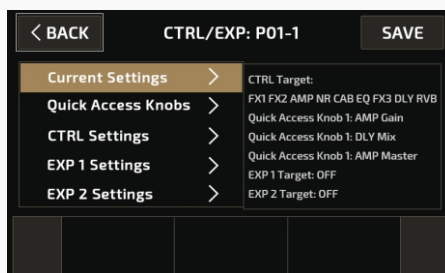
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CTRL Settings

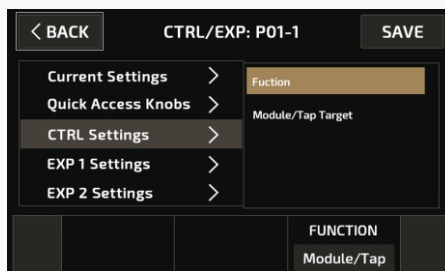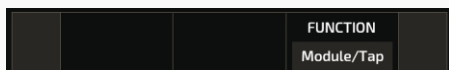Use the CTRL Settings menu to assign a function to CTRL footswitch or select which modules of the current patch will be controlled by the CTRL footswitch.

• Function
Under the Function option you can assign a function to CTRL footswitch. There are three FUNCTION selections:

Module/Tap: For controlling module on/off or tap tempo
Tap Tempo: For tap tempo only EXP 1
On/Off: For switching built in expression pedal on/off or tap tempo

When Module/Tap or EXP 1 On/Off is assigned to CTRL footswitch, you can use CTRL footswitch to switch module/built-in expression pedal on/off or tap tempo. You can press and hold CTRL footswitch to switch between the two functions:
  - Module on/off switch
  Repeatedly pressing the CTRL footswitch will turn it on or off, with green and red LED lights to show the on/off status respectively. The modules it controls will be affected when switching CTRL switch on/off. The CTRL footswitch is set on (green) by default. To set target modules, see Module/Tap Target section below for detailed info.
  - EXP 1 on/off switch
  Repeatedly pressing the CTRL footswitch will turn the built-in expression pedal on or off, with green and red LED lights to show the on/off status respectively.
  - Tap Tempo
  When Tap Tempo engaged, the footswitch LED will turn blue and will flash with the tempo set. Set the tempo by repeatedly tapping the footswitch. This tempo will apply to the delay time and other effects with adjustable speed parameters.

• Module/Tap Target
Use the Module/Tap Target menu to select which modules of the current patch will be controlled by the CTRL footswitch:

The 9 Ampero effects modules are listed in the panel, with yes and no below each module to show if the CTRL footswitch is activated or not. In the example image above, FX1, FX2 and AMP modules are controlled by the CTRL footswitch.
Use the quick access knobs to change between yes/no, and press the arrows on the right/left to scroll through the modules.

Customizing Your Ampero

Tap Tempo and Tap Divide
To use tap tempo function you can:
   (1) Hold the footswitch when Module/Tap or EXP 1 On/Off function
   is assigned to CTRL footswitch
   (2) Assign Tap Tempo function to CTRL footswitch

When in Tap Tempo, the footswitch LED will turn blue and will flash
with the tempo set. Set the tempo by repeatedly tapping the
footswitch. This tempo will apply to the delay time and other effects
with adjustable speed parameters.
If you want a certain effect to be controlled by tap tempo, go into the
patch settings, select an effect, then select SYNC. When you do this,
the time will sync to the tap tempo value.
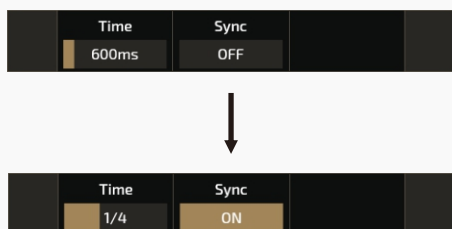
You can also opt to use tap divide rather than time-based tempo. The
default tap divide is set to quarter notes (1/4).
Tap divide values in relation to their musical beats are shown below:

Time Value	Beats (Quarter note as 1)	Display
Whole note	4	1/1
Half note	2	1/2
Dotted half note	3	1/2D
Half note triplet	4/3	1/2T
Quarter note (no divide)	1/1	1/4
Dotted quarter note	3/2	1/4D
Quarter note triplet	2/3	1/4T
Eighth note	1/2	1/8
Dotted eighth note	3/4	1/8D
Eighth note triplet	1/3	1/8T
Sixteenth note	1/4	1/16

Quick Access Knobs
This menu allows you to set the parameter targets for the three Quick
Access Knobs under the current patch. The parameter targets can
also be the effects parameters of the current effects module, patch
volume and patch tempo.
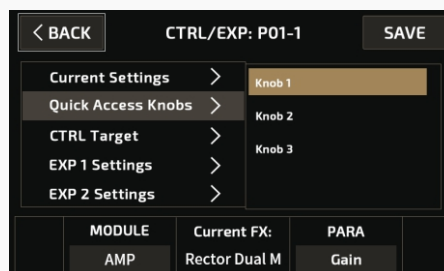
Use quick access knob 1 to select the target module. If you don't
want the quick access knob on, select OFF to turn its function off.
When a quick access knob is off, the parameter panel will display the
status as shown:
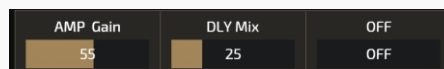
The effect the current module is using will show up in the center of
the selection panel. If the current module is off, the effects name will
be grayed out.
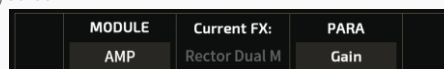
Use quick access knob 3 to select the parameter you want to control.
The controllable parameters will vary with the different modules and
effects.
Refer to Effects List for more on the controllable parameters of
different modules and effects.
You can press any parameter on the selection panel of the main
menu as a quick access knob control target. This must be done on the
touch screen, as shown below:

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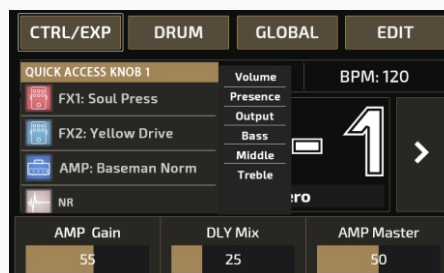
Customizing Your Ampero

EXP Settings
From this menu, you can control the settings of or calibrate your built-in or external expression pedal. Here, EXP 1 refers to the built-in pedal, and EXP 2 refers to your external expression pedal.
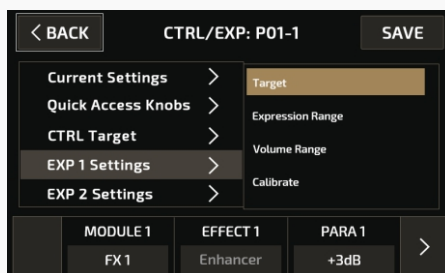
• EXP 1 Settings
There are four options within this menu: Target, Expression Range, Volume Range, and Calibrate.
  - Target
  Under the Target option, you can set the pedal's control target. You can set up a maximum of four effects parameters for the built-in expression pedal to control.
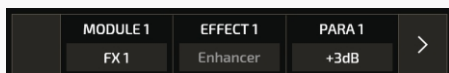
In the selection panel, MODULE X (X standing for 1-4 controllable targets) represents the effects module in play. EFFECT X displays the actual effect name, and PARA X shows the effect's controllable parameter.
Use quick access knob 1 to select the module placement. Use quick access knob 3 to select the effects parameter. Touch the right or left arrows to flip through the panel.
You can also turn the expression pedal off by turning selecting OFF in the settings panel.

  - Expression Range
  Under the Expression Range option, you can set the expression pedal expression range and sweep curve. There are four adjustable targets to change these settings.
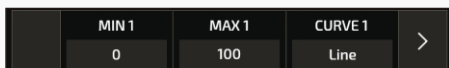
In the selection panel, MIN X (X standing for 1-4 controllable targets) represents the lowest range value. This is the value the pedal will have when pushed all the wayup. MAX X represents the highest range value, when the pedal is pushed all the way down. CURVE X represents the curve line the pedal will follow when pushed fromall the way up to all the way down.
The MIN and MAX range is 0-100, and the MIN value can be greater than the MAX value.
There are three CURVE types:
  Line follows a straight line.
  Exp follows an exponential line from slow to fast.
  Log follows a logarithmic line that changes as the pedal moves.

When MIN < MAX

When MIN > MAX
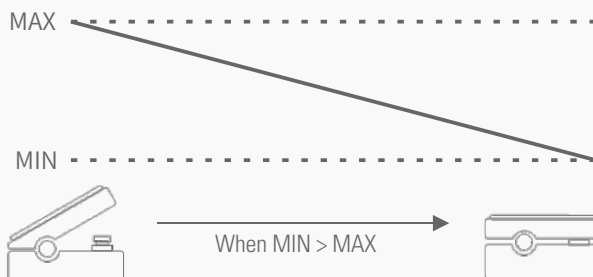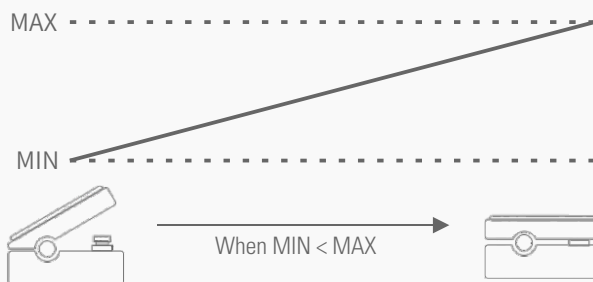
Customizing Your Ampero

- Volume Range
When the built in expression pedal is off, it continues to work as a volume pedal for Ampero. Under the Volume Range option, you can set the volume pedal range and sweep curve.
Same as Expression Range section, MIN and MAX represent the lowest/highest volume range value. The MIN and MAX range is 0-100, and the MIN value can be greater than the MAX value.
There are also three CURVE types like expression settings: Line, Exp and Log.
- Calibrate
The Calibrate option helps you calibrate your expression pedal. It is important to calibrate the expression pedal if you find the sweep has very little or too much change in the effect you've set.
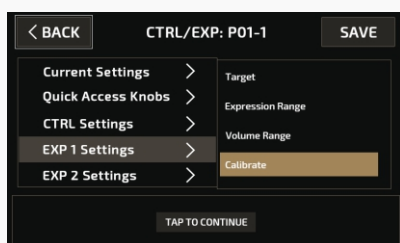
Press Calibrate on the selection panel, and these instructions will appear:
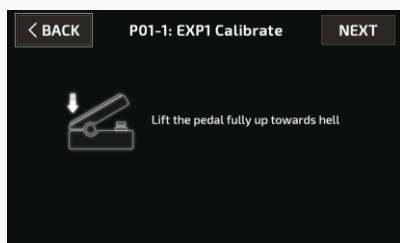
Bring the pedal all the way up (back) and press NEXT.
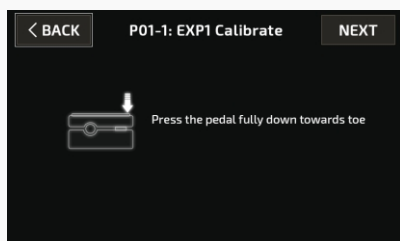
Then press the pedal all the way down and press NEXT.
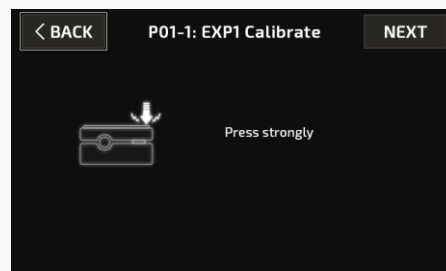
Then, strongly press the pedal toe down and press NEXT. The calibration will be set, and this message will appear:
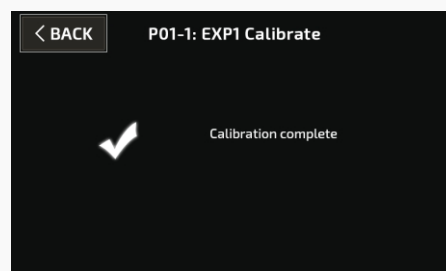
Press BACK to return to the previous menu. If the calibration fails, this message will appear. Press REPEAT to begin the calibration process again. Or press BACK to exit the calibration process and return to the previous menu.
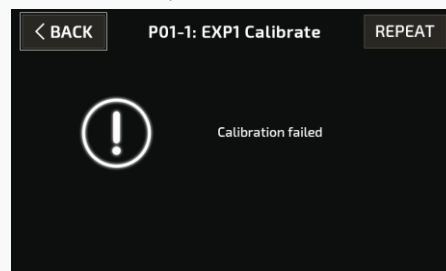
• EXP 2 Settings
There are three options within this menu: Target, Expression Range, and Calibrate. These settings are the same as the built-in expression pedal settings. You don't need to "Press strongly" while calibrating external expression pedal.

Customizing Your Ampero

SAVE

In the SAVE menu, you can save the changes your made to your effects parameters, control information, and other editable targets.
It is very important to save the changes you made to your tone and control settings!

Cancel saving and exit

Select a patch location to save

Changes the cursor position

Changes the type of the character

Confirm saving

Deletes unwanted characters

Selects the character

Quick access knob 1 changes the position of the cursor.
Quick access knob 2 changes the type of character. There are four types of characters: numbers, capital letters, lowercase letters, and symbols (includes space).
Quick access knob 3 lets you select the character.
Press SAVE to save the setting or BACK to cancel saving.

GLOBAL

Use the GLOBAL menu to set Ampero's global functions, including I/O and MIDI channel settings. You can also return to factory settings from this menu.
Global settings will affect Ampero's overall working status. These will override any other settings made to your patches. Any changes made in Global setting will be automatically saved and immediately operational.
In the main menu, press GLOBAL to enter the global settings menu. The screen will look like this:

Exit the menu

Sub menu
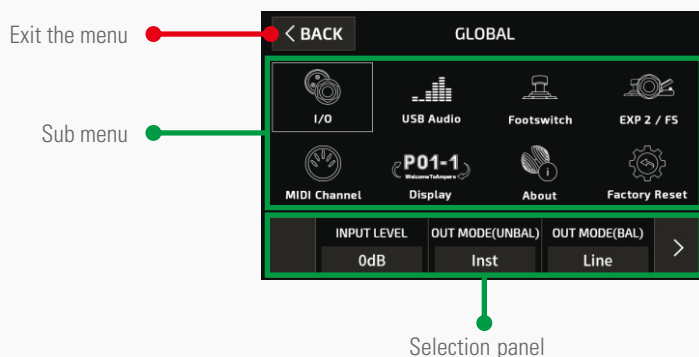
Selection panel

You can either use the touchscreen or turn the main knob to scroll through the menu targets. As you select your menu target, buttons will appear in the selection panel.
The selection panel will display the adjustable options of the target you select. These will vary according to the selection. If there are more than three options in the current selection, use the arrows to the right and left to scroll through the options.
Use quick access knobs 1-3 to adjust the options in the selection panel. If there is no option in the panel above a certain quick access knob, moving that knob will have no effect.

Customizing Your Ampero

I/O

Set the global input/output levels and modes in the I/O menu.
Adjust the optimal Input Level for the instrument or other input you're using. Adjustable range is from -20dB to +20dB. Default is set to 0dB.
Out Mode lets you set up the unbalanced 1/4" out (UNBAL) and balanced 1/4" out (BAL) mode. The selections for these are the same: instrument output (Inst) and line output (Line). Use the instrument line out for connecting to amplifiers or other effects equipment. Use the line output for connecting to mixers or audio interfaces.
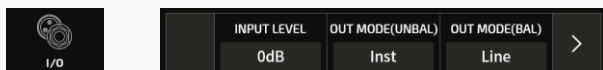
No Cab Mode is for connecting to instrument amplifiers without changing saved presets. Turning this on will bypass the CAB module for Ampero's L/R output channels ignoring preset settings. You can apply different settings on L/R output channels for different scenarios. Default is set to Off.
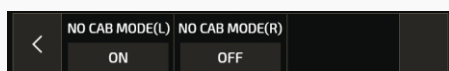
USB Audio

Use this menu to set up USB audio settings when using Ampero as a USB audio interface.
The Rec Mode options allow you to select USB recording input sources on left (L) and right (R) input channels. The selections for these are same: dry signal (Dry) and wet signal (Effect).
When recording, adjust the optimal Rec Level and Monitor Level according to the instrument or other devices you're using.
Rec Level: range: -20dB to +20dB, default: 0dB
Monitor Level: range: -20dB to +6dB, default: 0dB
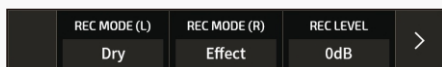
Footswitch

Use the footswitch menu to set up the way Ampero's four footswitches work independently and together with each other. The menu includes FSX TAP, FSX HOLD (X from 1-4 refers to footswtiches 1, 2, 3, and CTRL), FS1+2, FS2+3, FS3+4.

For footswitch functions:
FSX TAP: Function when you tap footswitch X
FSX HOLD: Function when you tap and hold footswitch X
FS1+2: Function when you tap footswitches 1 and 2 together
FS2+3: Function when you tap footswitches 2 and 3 together
FS3+4: Function when you tap footswitches 3 and 4 together
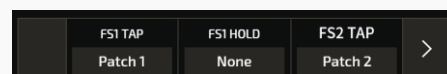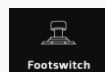
These can be set up as follows:
Patch X (X=1-3): Assign one of three patches to come up in your current bank
Patch+/Patch-: Change patches by toggling up or down
Bank+/Bank-: Change banks by toggling up or down
CTRL: CTRL function depending on patch settings
Tap Tempo: Enable/disable tap tempo function
Drum Menu: Enter/exit drum menu
Tuner: Enter/exit tuner
Looper Menu: Enter/exit looper menu
None: No function

Function, Color, and Function Assignable Range are listed below:

Function	Color	Assignable Range
Patch X	Cyan	All
Patch+/Patch-	Cyan	All
Bank+/Bank-	Red	All
CTRL	Red/Blue	Only FSX TAP
Tap Tempo	Flashing Blue	Only FSX HOLD
Drum	Blue	All
Tuner	White	All
Looper	Purple	All
None	-	All

Reminder:
1. If you assign Patch+/- or Bank+/- to FSX HOLD, holding down the footswitch will allow to you quickly scroll through the patches or banks.
2. In Wait mode, FS1-3 TAP, FS1+2 and FS2+3 functions will be fixed to default.
3. When you assign CTRL function to FSX TAP, the FSX HOLD of the current footswitch will be fixed to Tap Tempo.

Hotone
DESIGN INSPIRATION

AMPERO
Amp Modeler / Effects Processor

Customizing Your Ampero

EXP 2/FS

You can also connect external footswitches to EXP2/FS jack for further control. This menu allows you to set up the working mode of EXP 2/FS jack and the functions of external footswitches.
The menu includes MODE, FS5 TAP, FS6 TAP, BANK SEL MODE.

Select a mode from EXP (connect to expression pedal), Single FS (single footswitch controller) and Dual FS (dual footswitch controller).
The MODE selection affects available options in this menu:
EXP: all other options are unavailable
Single FS: FS6 TAP is unavailable
Dual FS: all other options are available

FS5 TAP and FS6 TAP can be set up as follows:
Loop Rec/Play: Record/play loop phrases
Loop Stop: Stops looper playback
Looper Menu: Enter/exit looper menu
Drum On/Off: Drum rhythm play/stop
Drum Menu: Enter/exit drum menu
Tuner: Enter/exit tuner
Tap Tempo: Tap tempo function
Patch+/Patch-: Change patches by toggling up or down
Bank+/Bank-: Change banks by toggling up or down
EXP1 on/off: Switching built-in expression pedal on/off
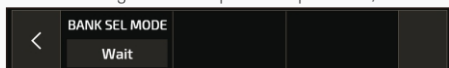
You can select Ampero's bank select mode when using external footswitches as a bank switcher. This works for external footswitches only.
Bank Sel Mode lets you select from two modes: Initial and Wait.
In Initial mode, Ampero will jump to a new patch immediately after switching a bank.
In Wait mode, when switching banks, the patch you're using won't be changed (footswitch LEDs on Ampero will keep flashing) until you tap a footswitch again to confirm your selection.

MIDI Channel

This menu allows you to set up Ampero's MIDI channels, ranging from Omni (all channels) to Channels 1-16. Default is set to Omni.

Display(Not Available For Pink Limited Version)

Tap this icon to switch between two display modes in Main Display screen:
Mode 1 stresses patch number (default):

Mode 2 stresses patch name:

The icon will indicate current display mode.

About

About will show you information about Ampero's firmware.

Firmware Version: V1.0
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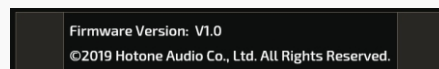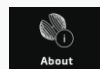
Factory Reset

Use this menu to perform a factory reset. Remember, resetting Ampero will delete all of your saved changes and personal settings. Once it is executed, it cannot be undone, so please back up your settings before performing a factory reset.

Press Factory Reset on the screen.

FACTORY RESET
WARNNING: ALL USER DATA WILL BE LOST.
ARE YOU SURE TO CONTINUE?
NO   YES
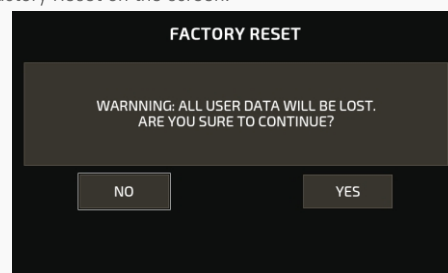
This display will come up with a warning.
Pressing YES will perform the factory reset. Pressing NO will return to the previous menu. After continuing with the factory preset, this screen will appear showing that reset is in progress. Do not disconnect the power supply while the reset is in progress. Disconnecting the power supply may cause Ampero to malfunction.

FACTORY RESET
Resetting in progress
PLEASE DO NOT SHUT DOWN
70%

When the factory reset is complete, this message will appear. Press OK to return to the main menu.

FACTORY RESET
Factory reset finished.
OK
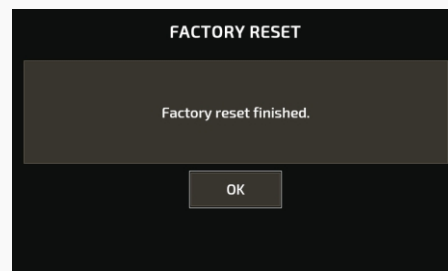
Suggested Setups

Here are some common setups to get the most out of Ampero.

Using with your instrument and amp

Plug your instrument into the Ampero instrument IN jack, and run a cable (or two) from the unbalanced OUT to your amplifier(s). If you have one amp, run the cable from the left output.
For best results, turn off the AMP and CAB modules on Ampero.
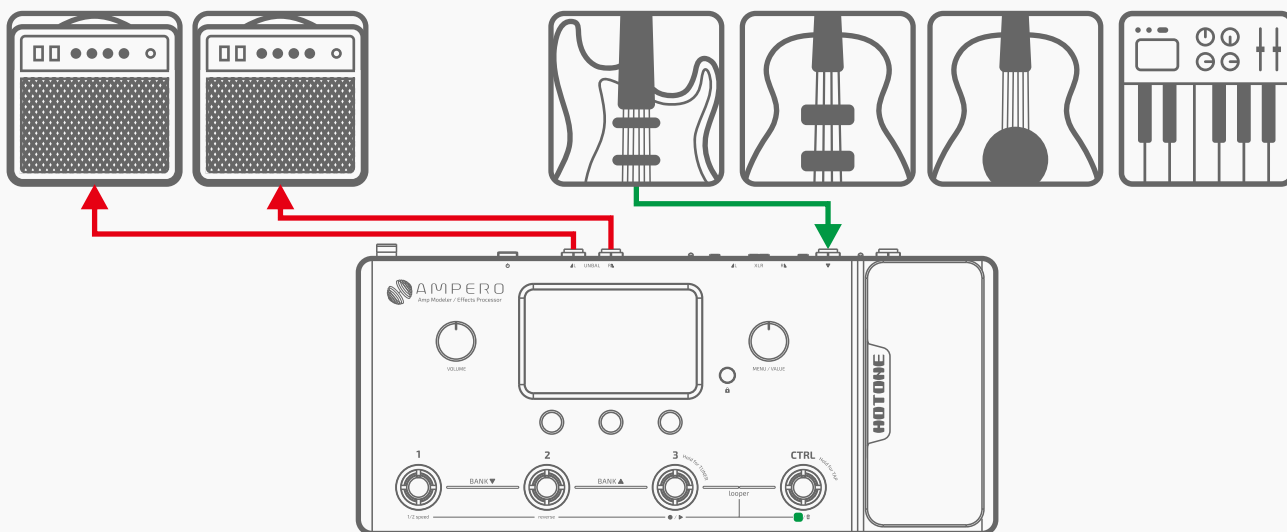
Connecting to your amp's RETURN or Power Amp (Loudster) INPUT

Connect the unbalanced outputs to your amp's FX Loop Return input or post amp input. If you have one amp, run the cable from the left output. For best results, turn off the CAB module on Ampero.
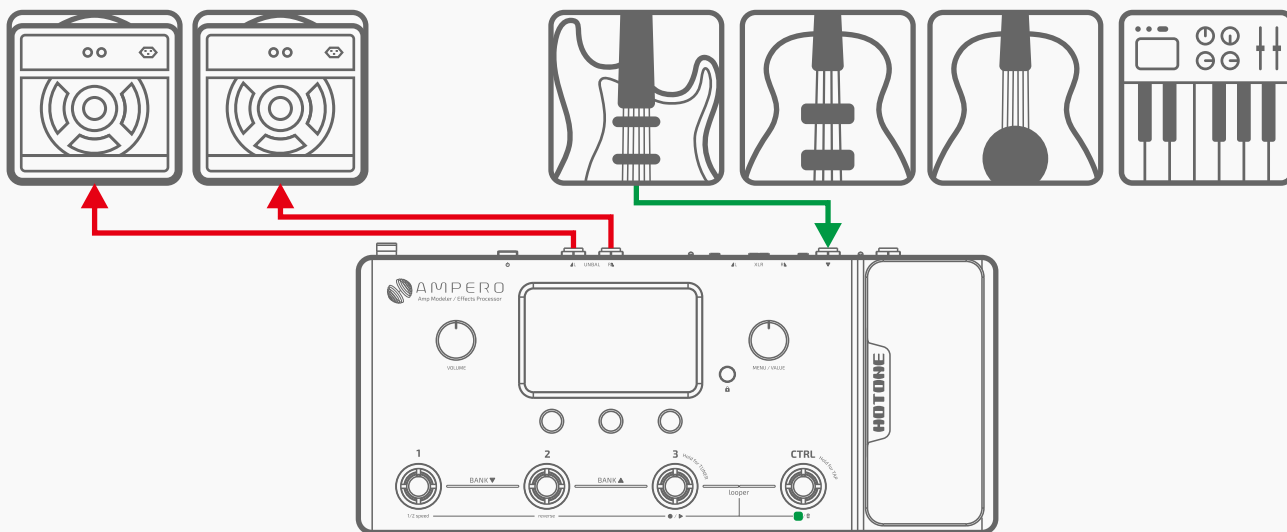
Suggested Setups
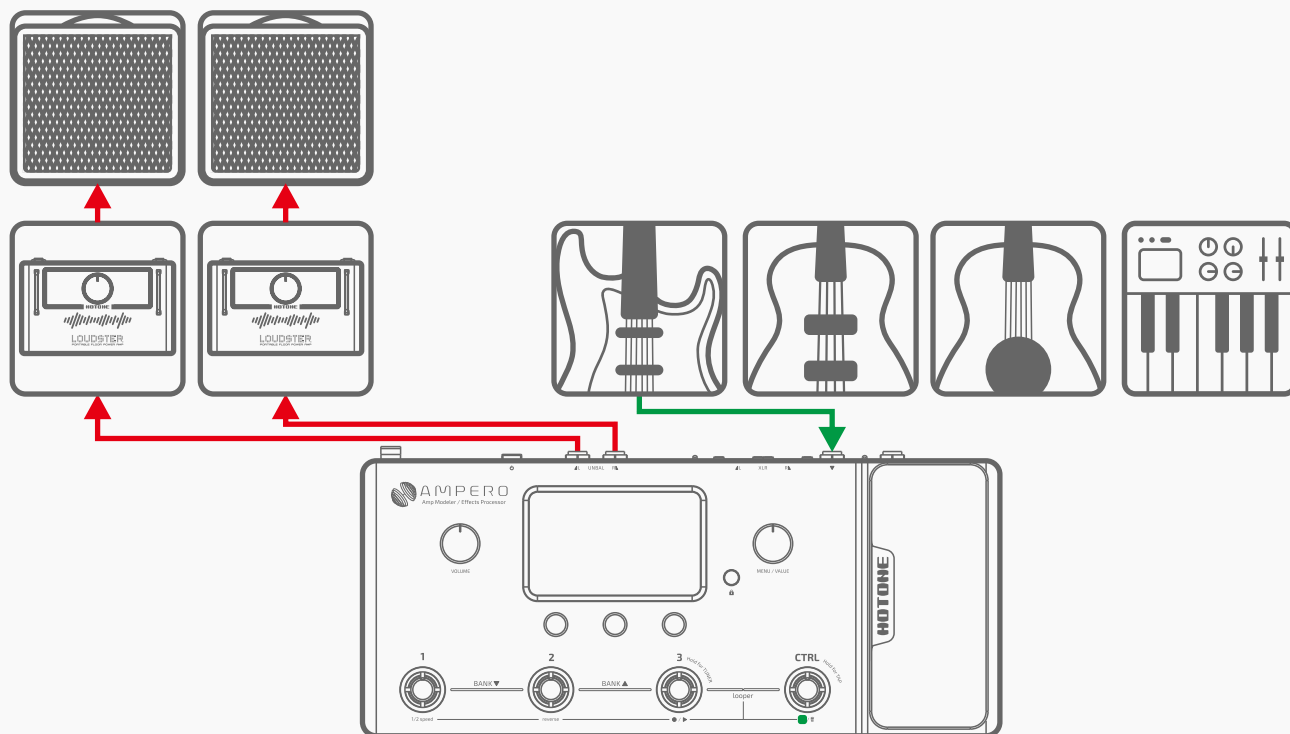
Connecting your mixer, interface, headphones, and other equipment

Connect Ampero's balanced or unbalanced outputs to your mixer or audio interface's corresponding inputs. Use the balanced outputs for optimal signal to noise ratio. If you want to send a mono signal out, use Ampero's left output channel. To prevent damage to your equipment, make sure the mixer or interface channel's volume is muted before making any connections.

If you experience unwanted noise when using the balanced outputs, it is likely produced by the ground loop. In this case, turn on Ampero's GND LIFT switch.

Turn the Ampero output volume all the way down before connecting headphones to prevent harm to your ears. Ampero's headphones out comes with hi-fi stereo sound.

For best results with headphones, turn on Ampero's AMP and CAB modules.
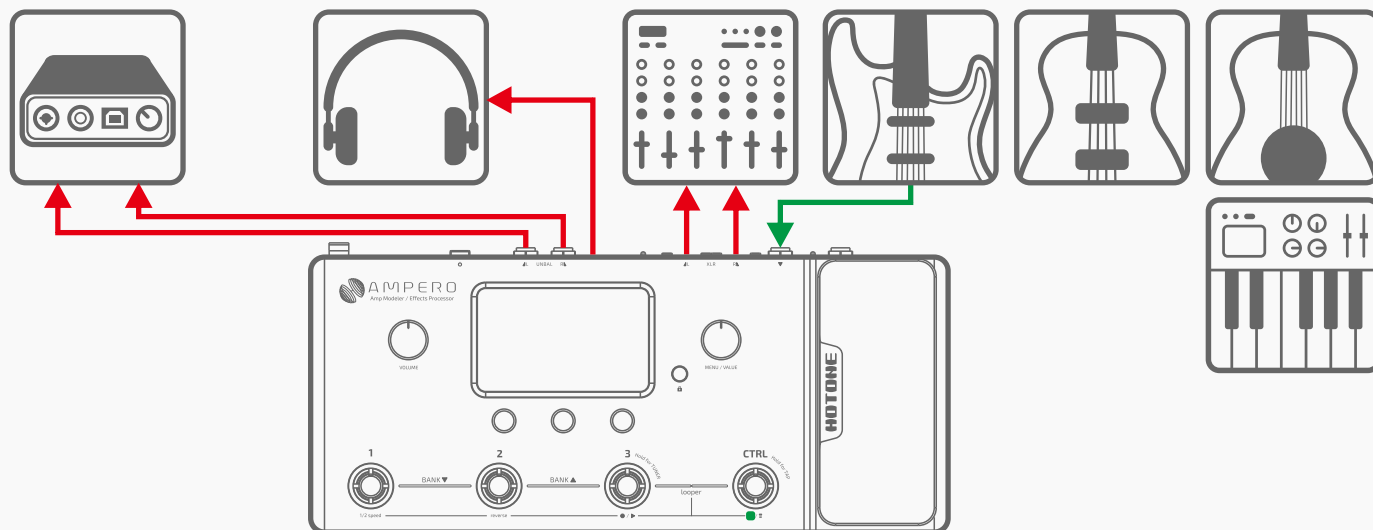
Suggested Setups

Connecting to your computer as an audio interface

Connect a USB cable (not included) from Ampero to your computer. For PC systems, you'll need to set up the driver. Ampero is plug and play for macOS. Run line out cables to your monitors, or use headphones.
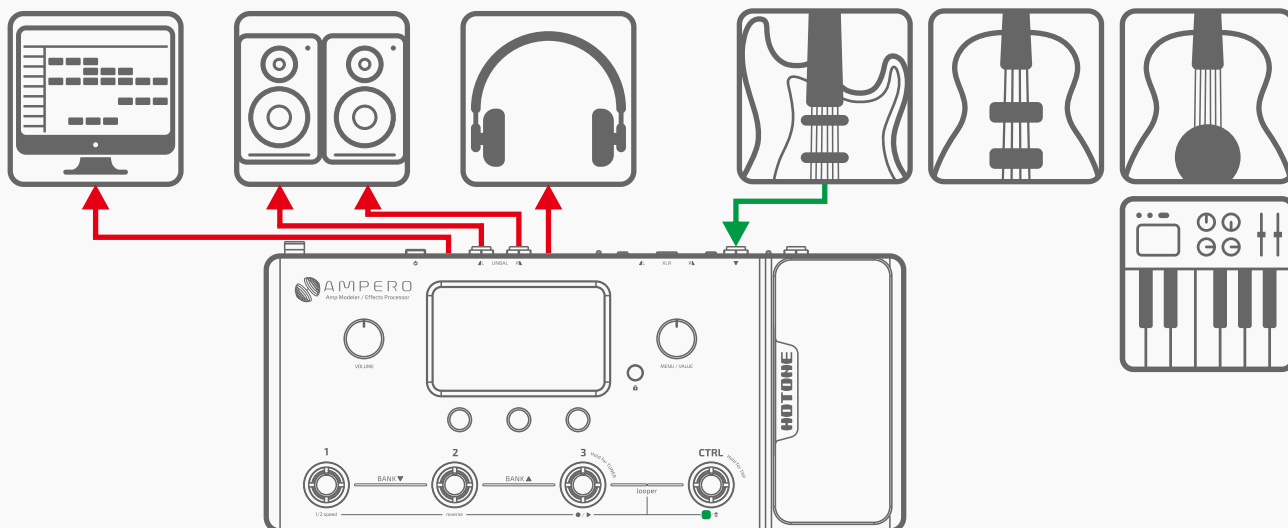
Using the AUX IN line

Connect a male-to-male 1/8" stereo cable from your audio source (phone or MP3 player) to Ampero's AUX IN jack. This line will be unaffected by Ampero's internal effects. Note: if you are running a mono line out, you will only hear a mono version of your AUX source.
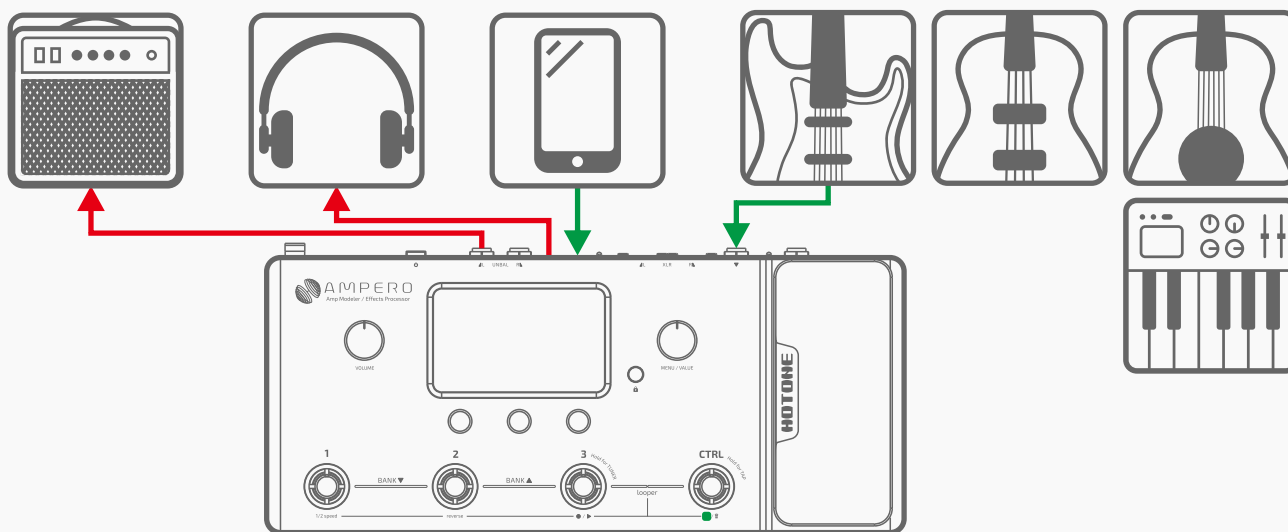
Included Software

Connect Ampero to your computer and access the free software to manage your Ampero device, adjust tonal settings, transfer files, update firmware, restore settings, and upload third party IR files. Ampero software is compatible with Windows and macOS platforms. Log on to www.hotoneaudio.com/support to download the free software.

Effect List

Effect Models List

Fx1, FX2, Fx3 (71)		
Dynamic (9)		
FX Title	Description	Parameters & Ranges
Comprosso	Based on the legendary Ross™ Compressor	Sustain (0~100) Controls the compression amount Output (0~100) Controls the effect output volume
Comparoma 4	Based on the Keeley® C4 4-knob compressor*	Sustain (0~100) Controls the compression amount Attack (0~100) Controls how soon the compressor starts to process the signal Output (0~100) Controls the effect output volume Clipping (0~100) Controls the input sensivity
Blue Sustainer	Based on a legendary 3-knob VCA blue compressor/sustainer	Sustain (0~100) Controls the compression amount Attack (0~100) Controls how soon the compressor starts to process the signal Output (0~100) Controls the effect output volume
Squeezer	Flexible, fully adjustable compressor effect	Threshold (0~100) Controls the compression threshold Ratio (0~100) Controls the compression ratio Output (0-100) Controls the effect output volume Attack (0~100) Controls how soon the compressor starts to process the signal Release (0~100) Controls how soon the compressor starts to release the signal level back to normal after the level drops below the threshold Tone (0~100) Controls the effect tone brightness
Affinity Boost	Based on famous Xotic® AC Booster* pedal	Gain(0~100) Controls the gain amount Volume(0~100) Controls the effect output volume Bass(0~100) Controls the low frequency amount Treble(0~100) Controls the high frequency amount
Beefy Boost	Based on famous Xotic® BB Preamp* pedal	
Pristine Boost	Based famous on Xotic® RC Booster* pedal	
FET Boost	Based on legendary green clip-on FET Preamp	Bass(0~100) Controls the low frequency amount Treble(0~100) Controls the high frequency amount Volume(0~100) Controls the effect output volume Low Cut(Off/On) Switches the low cut (-6dB/oct @200Hz) filter on/off
Enhancer	Based on famous Xotic® EP Booster* pedal	+3dB(Off/On) Switches min. boost amount from 0dB to +3dB Bright(Off/On) Switches extra brightness on/off Volume(0~100) Controls the effect output volume
Frequency (18)		
Acoustic Refiner	Designed for acoustic instruments, bringing you a more natural "woody" acoustic sound	Shape(0~100) Controls the detailed sound character
AC Sim	Acoustic guitar simulator designed for guitars	Body(0~100) Controls the body resonance Top(0~100) Controls the upper harmonics Volume(0~100) Controls the effect output Mode(Standard/Jumbo/Enhanced/Piezo) Switches from 4 modes: STANDARD: Simulates a standard acoustic guitar JUMBO: Simulates a jumbo acoustic guitar ENHANCED: Simulates an acoustic guitar with enhanced attack PIEZO: Simulates the sound of a piezo pickup

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Effect List

Effect Models List

Dynamic Basso	A special envelope filter (a.k.a. touch wah) designed for bassists, provides a natural, smooth sound full of analog feel	Sens (0~100) Controls the sensitivity Res (0~100) Controls the filter resonance Decay (0~100) Contols how fast the filter goes back to the resting point
Toucher	A wide ranged envelope filter (a.k.a. touch wah) designed for guitarists and bassists that is touch-sensitive and flexible	Sens (0~100) Controls the sensitivity Range (0~100) Contols the filter center frequency range Q (0~100) Controls the filter Q Mix (0~100) Controls the wet/dry signal ratio Mode (Guitar/Bass) Switches from guitar/bass modes
Crier	Providing a variable auto wah effect for both guitars and basses	Depth (0~100) Controls the effect depth Rate (0~100) Controls the effect speed Volume (0~100) Controls the effect output Low (0~100) Controls the filter low frequency range Q (0~100) Controls the filter Q High (0~100) Controls the filter high frequency range Sync (Off/On) Switches Tap Tempo sync on/off
Voxy Wah	Based on legendary VOX® V846* wah pedal	Range (0~100) Controls the filter frequency range Q (0~100) Controls the filter Q Volume (0~100) Controls the effect output To use expression pedal as a wah pedal, assign Range as control target; you'll hear the difference by switching the pedal on and moving back and forth
Cry Wah	Based on legendary Dunlop® CryBaby®* wah pedal	
Petrus Wah	Based on famous Dunlop® CryBaby® JP95* wah pedal	
Soul Press	Based on Hotone Soul Press (WAH mode)	
Bass Press	Based on Hotone Bass Press (WAH mode)	
Clean Octa	Provides polyphonic octave effect	Low Oct (0~100) Controls the lower octave volume High Oct (0~100) Controls the higher octave volume Dry (0~100) Contols the dry signal level
Dirty Octa	Provides distorted polyphonic octave effect with distortion	Oct 1 (0~100) Controls the lower octave volume Oct 2 (0~100) Controls the higher octave volume Dry (0~100) Contols the dry signal level
Harmony	Polyphonic pitch shifter/harmonizer based on Hotone Harmony	Hi Pitch (0~+24) Controls the lower pitch by half notes Low Pitch (0~-24) Controls the higher pitch by half notes Dry (0~100) Controls the dry singal level Hi Volume (0~100) Controls the high pitch volume Low Volume (0~100) Controls the low pitch volume
Telephone Line	Simulates vintage telephone effect	Noise (0~100) Controls the backgroud noise amount Shake (0~100) Controls the sound vibration
Satisfaction	Vintage tape saturation simulater providing analog warmth and natural distortion	Saturation (0~100) Controls the gain amount Mix (0~100) Controls the wet/dry signal ratio Output (0~100) Controls the effect output High Cut (0~100) Controls the effect high cut amount
Path Filter	A 4-step auto filter machine for creating synth-like sounds	Step 1/Step 2/Step 3/Step 4 (0~100) Controls filter center frequency of 4 filters (steps) Rate (0~100) Controls the effect speed Sync (0~100) Switches Tap Tempo sync on/off

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Effect List

Effect Models List

Bit Krusher	Provides bitcrushing/sample reducing effect with musical fashion	Mix (0~100) Contols the wet/dry signal ratio Krush (0~100) Controls the downsampling rate Bit (0~100) Controls the bit depth Hi Cut (0~100) Controls the high cut amnount Lo Cut (0~100) Controls the low cut amount
Ring Mod	A ring modulator for creating intresting inharmonic frequency spectra (like bells and chimes)	Mix (0~100) Contols the wet/dry signal ratio Freq (0~100) Controls the modulation frequency Fine (-50~0~+50) Fine tune the modulation frequency by 1Hz Tone (0~100) Controls the tone brightness
Overdrive/Distortion (22)		
Green Drive	Based on legenary Ibanez® TS-808 Tube Screamer®* overdrive pedal	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brigntness Volume (0~100) Controls the effect output volume
Yellow Drive	Based on the legendary 2-knob yellow overdrive pedal with thick, cream like sound character, one of the earliest dirt pedals	Gain (0~100) Controls the gain amount Volume (0~100) Controls the effect output volume
Swarm Drive	Based on Providence® SOV-2 Stampede OD* overdrive pedal, delivering natural overdrive tone without affecting the sound character of your guitar	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume
Super Drive	Based on the legendary 3-knob yellow overdrive pedal, reproducing the thick, warm sound produced by asymmetric overdrive circuitry	
Screamood	Classic overdrive Inspired by legendary TS-style overdrive served with its most enduring modification	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume Fat (Off/On) Switches extra resonance on/off Air (Off/On) Switch extra presence on/off
Dr. Blues	Based on an legendary 3-knob Blues overdrive pedal providing full-range overdriven sound, great for both guitars and basses	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume
Force Drive	Based on legendary Fulltone® OCD®* V3 overdrive pedal	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume Mode (LP/HP) Selects from two sound characters: LP: Neutral mode with natural response HP: High Peak mode with more distortion
Tube Clipper	Based on legendary B. K. Butler® Tube Driver®* real tube overdrive pedal	Gain (0~100) Controls the gain amount Volume (0~100) Controls the effect output volume Bass (0~100) Controls the low frequency amount Treble (0~100) Controls the high frequency amount
Zen Garden	Based on legendary Hermida® Zendrive®* overdrive pedal	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume Voice (0~100) Controls the upper harmonics character

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HOTONE
DESIGN INSPIRATION

AMPERO
Amp Modeler / Effects Processor

Effect List

Effect Models List

Direct Touch	Based on Barber® Direct Drive* overdrive with flat and natrural response	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume Harmonics (Off/On) Switches extra harmonics on/off
Big Pie	Based on legendary Electro-Harmonix® Big Muff Pi®* fuzz/distortion pedal	Sustain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume
Face Fuzz	Based on legendary Dallas-Arbiter® Fuzz Face®* fuzz pedal	Fuzz (0~100) Controls the gain amount
Bend Fuzz	Based on legendary Sola Sound® Tone Bender® MkII* fuzz peal	Volume (0~100) Controls the effect output volume
Black Tail	Based on legendary ProCo™ The Rat* distortion (early LM308 OP-amp version)	Gain (0~100) Controls the gain amount Filter (0~100) Conterclockwize controls the tone brigntness Volume (0~100) Controls the effect output volume
Plustortion	Based on MXR® M104 Distortion +* , reproducing the legendary Germanium-powered soft clipping distortion	Gain (0~100) Controls the gain amount Volume (0~100) Controls the effect output volume
Smooth Dist	Based on the legendary 3-knob orange distortion released in late 1970s	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume
Governor	Based on Marshall® Guv'Nor* distortion pedal	Gain (0~100) Controls the gain amount Volume (0~100) Controls the effect output volume Bass (0~100) Controls the low frequency amount Middle (0~100) Controls the mid frequency amount Treble (0~100) Controls the high frequency amount
Crunchist	Based on MI Audio® Crunch Box®* distortion peal, providing classic UK-style high gain stack sound	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume
Purple Plexi	Based on Wampler® Plexitortion®* distortion pedal that inspired by UK Plexi-style amps	Gain (0~100) Controls the gain amount Mode (Vintage/Modern) Selects from two different sound characters: Vintage/Modern Volume (0~100) Controls the effect output volume Bass (0~100) Controls the low frequency amount Middle (0~100) Controls the mid frequency amount Treble (0~100) Controls the high frequency amount
Panama Lead	A tight, thick, raw distortion inspired by the legendary "Brown Sound"	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume Tight (0~100) Controls the bottom resonance
Bass Crusher	Based on a yellow bass overdrive pedal with wide tonal range	Gain (0~100) Controls the gain amount Blend (0~100) Controls the wet/dry signal ratio Volume (0~100) Controls the effect output volume Bass (0~100) Controls the low frequency amount Treble (0~100) Controls the high frequency amount

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Effect List

Effect Models List

Solid Steel	A bass drive with rich, solid sound and flexible tonal range	Gain (0~100) Controls the gain amount Tone (0~100) Controls the tone brightness Volume (0~100) Controls the effect output volume Mode (Normal/Scoop/Edge) Selects from 3 different modes: Normal: Neutral mode /Scoop: Mid-scooped mode/Edge: A mode with boosted highs Blend (0~100) Controls the wet/dry signal ratio
Modulation(22)		
Aozora Chorus	Based on legendary Arion® SCH-1* stereo chorus pedal, producing classic 1980s chorus tone that loved by Clapton and Landau	Depth (0~100) Controls the chorus depth Rate (0~100) Controls the chorus speed Tone (0~100) Controls the tone brightness Sync (Off/On) Switches Tap Tempo sync on/off
Grand Choruium	Based on the legendary huge ensemble chorus pedal born in late 1970s (chorus mode), producing rich, shimmering vintage analog chorus tone	Depth (0~100) Controls the chorus depth Rate (0~100) Controls the chorus speed Volume (0~100) Controls the output volume Sync (Off/On) Switches Tap Tempo sync on/off
Liquid C	Based on a legendary 4-button purple stereo chorus pedal, providing detailed rich chorus tone that expands sonic dimensions	Mode (1/2/3/4) Selects from 4 sound characters
Aquaria M	A multi-dimensional chorus pedal producing rich surrounding chorus sound, better playing with stereo sound systems	Mix (0~100) Contols the wet/dry signal ratio Rate (0~100) Controls the chrous speed Filter (0~100) Controls the tone brightness Depth L (0~100) Controls the chorus depth of left channel Depth C (0~100) Controls the chorus depth of center channel Depth R (0~100) Controls the chorus depth of right channel Sync (Off/On) Switches Tap Tempo sync on/off
Choruium B	Based on the famous ensemble chorus unit tuned for bassists	Depth (0~100) Controls the chorus depth Rate (0~100) Controls the chrous speed E.Level (0~100) Controls the effect output volume Sync (Off/On) Switches Tap Tempo sync on/off
Detune	Combines a slightly pitch shifted signal with original sound, producing chorus-like tone	Range (-50 Cents~+50 Cents) Controls the detune amounts by 1 cent Wet (0~100) Controls the effect output volume Dry (0~100) Controls the dry signal level
Jetter	Classsic flanging effect that is rich and natural	Depth (0~100) Controls the flanger depth Rate (0~100) Controls the effect speed Pre Delay (0~100) Controls the pre delay time Feedback (0~100) Controls the feedback amount Sync (Off/On) Switches Tap Tempo sync on/off
Jetter B	Classic flanging effect tuned for basses	
Jetter N	A flanger with negative feedback, producing "underwater" style sound	
Trem Jet	Combines flanger and tremolo in one	Flg Depth (0~100) Controls the flanger depth Flg Rate (0~100) Controls the flanging speed Feedback (0~100) Controls the feedback amount Trm Depth (0~100) Controls the tremolo depth Trm Rate (0~100) Controls the tremolo speed Flg Sync (Off/On) Switches flanger Tap Tempo sync on/off Trm Sync (Off/On) Switches tremolo Tap Tempo sync on/off

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Effect List

Effect Models List

Pulser	Based on a BBD-based blue vibrato pedal, producing natural analog vibrato sound	Depth (0~100) Controls the vibraro depth Rate (0~100) Controls the vibrato speed Sync (Off/On) Switches Tap Tempo sync on/off
Grand Vibrato	Based on the legendary huge ensemble chorus pedal born in late 1970s (vibrato mode), producing rich, shimmering vintage analog vibrato tone	Depth (0~100) Controls the vibrato depth Rate (0~100) Controls the vibrato speed E.Level (0~100) Controls the output volume Sync (Off/On) Switches Tap Tempo sync on/off
Shiver	A classic vibrato effect with wide adjustable range	Depth (0~100) Controls the vibrato depth Rate (0~100) Controls the vibrato speed Output (0~100) Controls the output volume Sync (Off/On) Switches Tap Tempo sync on/off
Shiver T	A special vibrato with touch-sensitive dynamic depth control	Sens (0~100) Counterclockwise controls the effect sensitivity Rate (0~100) Controls the effect speed Output (0~100) Controls the output volume Sync (Off/On) Switches Tap Tempo sync on/off
90 Phaser	Based on legendary MXR® M101 Phase 90*	Rate (0~100) Controls the phaser speed Sync (Off/On) Switches Tap Tempo sync on/off
Green Phaser	Based on a legendary 2-knob green phaser with sharp sound character	Depth (0~100) Contols the phaser depth Rate (0~100) Controls the phaser speed Sync (Off/On) Switches Tap Tempo sync on/off
Twirl N	A highly flexible phaser effect with 3 adjustable notch filters	Depth (0~100) Contols the phaser depth Rate (0~100) Controls the phaser speed Level (0~100) Controls the output volume Notch 1/Notch 2/Notch 3 (0~100) Controls the center frequency of 3 notch filers Sync (Off/On) Switches Tap Tempo sync on/off
Twirl P	A special, subtle phaser combines tremolo/pan variations	Phaser Depth (0~100) Controls the phaser depth Phaser Rate (0~100) Controls the phaser speed Pan Depth (0~100) Controls the tremolo/pan depth Pan Rate (0~100) Controls the tremolo speed (mono) or panning speed (stereo) Phs Sync (Off/On) Switches phaser Tap Tempo sync on/off Pan Sync (Off/On) Switches tremolo/pan Tap Tempo sync on/off
Minivibe	Based on Voodoo Lab® Micro Vibe*	Depth (0~100) Controls the effect depth Rate (0~100) Controls the effect speed Sync (Off/On) Switches Tap Tempo sync on/off
Revolver	Based on legendary Shin-ei® Uni-Vibe®*	Depth (0~100) Controls the effect depth Rate (0~100) Controls the effect speed Volume (0~100) Controls the output volume Mode (Chorus/Vibrato) Selects from two sound characters: Chorus/Vibrato Sync (Off/On) Switches Tap Tempo sync on/off
Helicopter	Based on legendary Demeter® TRM-1 Tremulator*, offering classical opto tremolo sound	Depth (0~100) Controls the tremolo depth Rate (0~100) Controls the tremolo speed Sync (Off/On) Switches Tap Tempo sync on/off

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Effect List

Effect Models List

Custom Trem	A custom tremolo with 4 different waveforms and super wide tonal range	Depth (0~100) Controls the tremolo depth Rate (0~100) Controls the tremolo speed Volume (0~100) Controls the output volume Color (0~100) Controls the effect tone Shape (Sine/Triangle/Square/Sawtooth) Selects from sine/triangle/square/sawtooth tremolo waveforms Bias (0~100) Controls the waveform offset amount Sync (Off/On) Switches Tap Tempo sync on/off
AMP(63)		
Clean(14)		
Tweed Lux	Based on Fender® Tweed Deluxe* (bright channel, 5E3 version)	Volume (0~100) Controls the amp pre gain Tone (0~100) Controls the tone brightness Output (0~100) Controls the amp output volume
Baseman Norm	Based on Fender® '59 Bassman®* (normal channel)	Volume (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Output (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Black Twin	Based on Fender® '65 Twin Reverb®*	Gain (0~100) Controls the amp pre gain Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response Bright (Off/On) Switches extra brightness on/off
Voxy 30HW Norm	Based on VOX® AC30HW* (normal channel)	Volume (0~100) Controls the amp pre gain Tone Cut (0~100) Counterclockwise controls the tone brightness Master (0~100) Controls the amp output volume Bright (Off/On) Switches extra brightness on/off
Superb Dual Clean	Based on Supro® Dual-Tone 1624T* (clean tone)	Volume(0~100) Controls the amp output volume Tone(0~100) Conterclockwise controls the tone brightness
Jazz Clean	Based on the legendary "Jazz Chorus"solid state combo	Volume (0~100) Controls the amp output volume Bright (0~100) Switches extra brightness on/off Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Emperor Clean	Based Matchless™ Chieftain 212 combo* (clean tone)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume
Superstar Clean	Based on Mesa/Boogie® Lone Star™ (CH1)	Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response

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Effect List

Effect Models List

Glacian Clean	Based on Bogner ® Shiva* (20th Anniversary version, Ch1)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Treble (0~100) Controls the amp high frequency response Bright (Off/On) Switches extra brightness on/off
Dr. 38 Clean	Based on Dr. Z® Maz 38 Sr.* combo (clean sound)	Gain (0~100) Controls the amp pre gain Tone Cut (0~100) Conterclockwise controls the tone brightness Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Pendragon Clean	Based on Grindrod® Pendragon PG20C* (Normal channel, bright off)	Gain (0~100) Controls the amp pre gain Volume (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Pendragon Clean+	Based on Grindrod® Pendragon PG20C* (Normal channel, bright on)	
Hot Kitty Clean	Based on Bad Cat® Hot Cat 30* (clean channel)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume
Soloist 100 Clean	Based on Soldano® SLO100* (normal channel, clean sound)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Drive(19)		
Baseman Bright	Based on Fender® '59 Bassman®* (bright channel)	Volume (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Output (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Voxy 30HW TB	Based on VOX® AC30HW* (Top Boost channel)	Volume (0~100) Controls the amp pre gain Tone Cut (0~100) Conterclockwise controls the tone brightness Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Treble (0~100) Controls the amp high frequency response Char (Cool/Hot) Selects from 2 gain ranges
Superb Dual Drive	Based on the Supro®Dual-Tone 1624T* (CH1+2, dirty tone)	Volume 1 (0~100) Controls the output volume of CH1 Tone 1 (0~100) Controls the tone brightness of CH1 Volume 2 (0~100) Controls the output volume of CH2 Tone 2 (0~100) Controls the tone brightness of CH2

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Effect List

Effect Models List

Emperor Drive	Based on Matchless™ Chieftain 212 combo* (dirty tone)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Dr. 38 Drive	Based on Dr. Z® Maz 38 Sr* combo (dirty tone)	Volume (0~100) Controls the amp pre gain Tone Cut (0~100) Conterclockwise controls the tone brightness Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Superstar Drive	Based on Mesa/Boogie® Lone Star™ (CH2)	Gain (0~100) Controls the amp pre gain Drive (0~100) Controls the amp drive amount Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Marshell 45	Based on Marshall® JTM45* (normal channel)	Volume (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Output (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Marshell 45+	Based on Marshall® JTM45* (High Treble channel)	
Marshell 45 Jump	Based on Marshall®JTM45* ("Jump" connection)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Output (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Marshell 50	Based on Marshall® JMP50* (normal channel)	Volume (0~100) Controls the amp pre gain Tone Cut (0~100) Controls the amp presence Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Marshell 50+	Based on Marshall® JMP50* (High Treble channel)	
Marshell 50 Jump	Based on Marshall® JMP50* ("Jump" connection)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Output (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response

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Effect List

Effect Models List

Hot Kitty Drive	Based on Bad Cat® Hot Cat 30* (drive channel)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Messe IIC+ 1	Based on Mesa/Boogie® Mark II C+™ (Lead channel) with 3 different onboard switch combinations	
Messe IIC+ 2		
Messe IIC+ 2		
Soloist 100 Crunch	Based on Soldano® SLO100* (normal channel, dirty sound)	
Marshell 800	Based on Marshall® JCM800*	
Pendragon Drive	Based on Grindrod® Pendragon PG20C* (Drive channel)	Gain (0~100) Controls the amp pre gain Volume (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Fryman B1	Based on the famous"Brown Eye"UK-style boutique amp head (BE channel) with 2 different onboard switch combinations	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Fryman B2		
Glacian Drive	Based on Bogner® Shiva* (20th Anniversary version, Ch2)	
HiGain(22)		
Marshell 900	Based on Marshall® JCM900* (Model 4100, channel B)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Dizzle VH B	Based on Diezel® VH4* (CH3, blue version)	
Dizzle VH S	Based on Diezel® VH4* (CH3, silver version)	
Engle Saga 1	Based on ENGL® Savage 120 E610* (CH4, contour off)	
Engle Saga 2	Based on ENGL® Savage 120 E610* (CH4, contour on)	
Powerengle Lead	Based on ENGL® Powerball II E645/2* (CH4)	
Fryman HB	Based on the famous"Brown Eye"UK-style boutique amp head (HBE channel) with 2 different onboard switch combinations	
Fryman HB+		
Eddie 51	Based on Peavey® 5150® (LEAD channel)	
Soloist 100 Lead	Based on Soldano® SLO100* (overdrive channel)	
Messe IV Lead 1	Based on Mesa/Boogie® Mark IV™ (Lead channel) with 3 different onboard switch combinations	
Messe IV Lead 2		
Messe IV Lead 3		
Tangerine R100	Based on Orange® Rockerverb 100™* (Dirty channel)	Gain (0~100) Controls the amp pre gain Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response

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Effect List

Effect Models List

Rector Dual V	Based on Mesa/Boogie® Dual Rectifier® (CH3, vintage mode)	Gain (0~100) Controls the amp pre gain Presence (0~100) Controls the amp presence Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Rector Dual M	Based on Mesa/Boogie® Dual Rectifier® (CH3, modern mode)	
Dizzle VH+B	Based on Diezel® VH4* (CH4, blue version)	
Dizzle VH+S	Based on Diezel® VH4* (CH4, silver version)	
Boger XT Blue V	Based on Bogner® Ecstasy* ("Blue" channel, Vintage mode)	
Boger XT Blue M	Based on Bogner® Ecstasy* ("Blue" channel, Modern mode)	
Boger XT Red V	Based on Bogner® Ecstasy* ("Red" channel, Vintage mode)	
Boger XT Red M	Based on Bogner® Ecstasy* ("Red" channel, Modern mode)	
Bass(5)		
Alchemy Pre	Based on Alembic™ F-2B* preamp	Volume (0~100) Controls the amp output volume Bright (Off/On) Switches extra brightness on/off Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response
Ampage Classic	Based on Ampeg® SVT* bass amp	Gain (0~100) Controls the amp pre gain Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Midrange (220Hz/450Hz/800Hz/1.6kHz/3kHz) Selects from 5 mid frequency ranges Treble (0~100) Controls the amp high frequency response Master (0~100) Controls the amp output volume
Ampage Flip	Based on Ampeg® B-15* "Flip Top" bass amp	Volume (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Treble (0~100) Controls the amp high frequency response
Voxy Bass	Based on vintage VOX®* AC-100* bass amp	
Messe Bass 400	Based on Mesa/Boogie® Bass 400* amp	Volume (0~100) Controls the amp pre gain Master (0~100) Controls the amp output volume Bass (0~100) Controls the amp low frequency response Middle (0~100) Controls the amp mid frequency response Treble (0~100) Controls the amp high frequency response

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Effect List

Effect Models List

Acoustic(2)		
Acoustic Preamp 1	Based on AER® Colourizer 2* acoustic preamp with 2 different onboard switch combinations	Volume (0~100) Controls the output volume Tone (0~100) Controls the tone brightness Balance (0~100) Controls the tone control balance; turn to 0 to disable tone control EQ Freq (0~100) Controls the EQ center frequency from 90Hz to 1.6kHz EQ Q (0~100) Controls the EQ bandwidth EQ Gain Controls the EQ boost/cut amount
Acoustic Preamp 2		Volume (0~100) Controls the output volume Tone (0~100) Controls the tone brightness Balance (0~100) Controls the tone control balance; turn to 0 to disable tone control EQ Freq (0~100) Controls the EQ center frequency from 680Hz to 11kHz EQ Q (0~100) Controls the EQ bandwidth EQ Gain Controls the EQ boost/cut amount

NR(3)		
All effects in this module are also available in FX1 and FX2 modules		
Smart Gate	Based on famous ISP® Decimator™* noise gate pedal	Threshold (0~100) Controls the noise gate threshold
Fast Gate	A 2-mode noise gate with fast response	Threshold (0~100) Controls the noise gate threshold Mode(I/II) Selects from two modes: Mode I: resopnds faster Mode II: responds smoother
Custom Gate	Flexible noise gate with attack and release control	Threshold (0~100) Controls the noise gate threshold Attack (0~100) Controls how fast the noise gate start to process signal Release (0~100) Controls the noise gate release time when signal level reaches the threshold

CAB/IR(70)
All effects in this module (include user IRs) share the same parameters: Mic Type: Selects (or turn off) the different microphone simulations Volume: Controls the output volume Position X/Y/Z: Controls the mic mosition simulations; X/Y controls the microphone horizontal/vertical position, set X=Y=0 to set the microphone on axis; Z controls the distance between microphone and speaker cap

Factory Cab(60)	
FX Title	Description
Super Zep 1x6	Supro®* 1x6" cabinet with oval speaker
Tweed Chap 1x8	Vintage Fender® Champ* 1x8" cabinet
Tweed Prince 1x10	Vintage Fender® Princeton* 1x10" cabinet
Black Lux 1x12	Vintage Fender® Deluxe* 1x12" cabinet
Black Vint 1x12	Vintage Fender® Vibrolux* 1x12" cabinet
Routine 1x12	Carr® Rambler* 1x12" cabinet
Glacian 1x12	Bogner® Shiva* 1x12" cabinet
Bad Kitty 1x12	Black Cat® Hot Cat* 1x12" cabinet
Voxy 1x12	Vintage VOX® AC15* 1x12" cabinet
Dark Star 1x12	Mesa/Boogie® Lonestar* 1x12" cabinet
Atom Open 1x12	Swart® Atomic Space* 1x12" cabinet

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HOTONE
DESIGN INSPIRATION

AMPERO
Amp Modeler / Effects Processor

Effect List

Effect Models List

Tweed Lux 1x12	Fender® Tweed Deluxe* 1x12 cabinet
US Studio 1x12	1980's Mesa/Boogie®* 1x12" cabinet
Ace 20 1x12	Morgan® AC-20 Deluxe* 1x12 cabinet
UK G12M 1x12	Marshall®* 1x12" cabinet
Voxy 2x12	Vintage VOX® AC30* 2x12" cabinet
Emperor 2x12	Matchless® Chieftain* 2x12" cabinet
Jazz Twin 2x12	Legendary "Jazz Chorus" 2x12" cabinet
Black Twin 2x12	Vintage Fender® '65 Twin Reverb* 2x12" cabinet
UK Green 2x12	Marshall® 2550* 2x12" cabinet
Tweed Super 2x10	A custom Fender® Tweed* 2x10" cabinet
Boutique 2x12	A unique custom 2x12" cabinet
Baseman 2x12	Vintgae Fender® "Piggyback" Bassman®* 2x12" cabinet
Superb 2x12	Supro® 1624T* 2x12 cabinet"
Match Twin 2x12	Matchless®* 2x12" cabinet
Superstar 2x12	Mesa/Boogie® Lonestar* 2x12" cabinet
Freedom 2x12	Fryette® Deliverance* 2x12" cabinet
Black Custom 2x12	Custom modified Fender®* 2x12" cabinet
Twin Rock 2x12	Two-Rock®* 2x12" cabinet
Bluesky 2x12	A custom 2x12" cabinet with Celestion® Alnico Blue* speakers
Baseman 4x10	Fender® '59 Bassman®* 4x10" cabinet
UK Lead 4x12	Marshall® 1960AV* 4x12" cabinet
UK Trad 2x12	68 Marshall® Basketweave* 4x12" cabinet
UK Modern 4x12	Custom modified Marshall®* 4x12" cabinet
UK Green 4x12	Vintage Marshall® 4x12" cabinet with Celestion® Greenback®* speakers
Eddie 4x12	Peavey® 6505* 4x12" cabinet
Rector 4x12	Mesa/Boogie® Rectifier®* 4x12" cabinet
Boger 4x12	Bogner®* 4x12" cabinet
Engle 4x12	ENGL®* 4x12" cabinet
Urban 4x12	Bogner® Uberkab* 4x12" cabinet
Soloist 4x12	Soldano®* 4x12" caninet
Tang 4x12	Orange® PPC412* 4x12" cabinet
Hiway 4x12	Vintage Hiwatt® SE4123* 4x12" cabinet
UK Black 4x12	1968 Marshall®* 4x12" cabinet
The Way 4x12	Vintage WEM®* 4x12" cabinet
Dumbell 4x12	Dumble®* 4x12" cabinet
Dizzle 4x12	Diezel®* 4x12" cabinet
Triple 4x12	Hughes & Kettner® Triamp* 4x12" cabinet
UK T75 4x12	Marshall®* 4x12" cabinet with Celestion® G12T-75* speakers
US King 4x12	Mesa/Boogie® Road King®* 4x12" cabinet
Adam 1x15	David Eden®* 1x15" bass cabinet
Worker 1x15	SWR®* 1x15" bass cabinet
Flip Top 1x15	Ampeg® PF-115HE* 1x15" bass cabinet
US Bass 2x10	Mesa/Boogie®* 2x10" bass cabinet
Mark 2x10	Mark Bass®* 4x10" bass cabinet

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Effect List

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Adam 4x10	David Eden®* 4x10" bass cabinet
Ampage 4x10	Ampeg® SVT-410HE* 4x10" bass cabinet
Worker 4x10	SWR® Workingman's* 4x10" bass cabinet
Hacker 4x12	Hartke®* 4x12" bass cabinet
Ampage 8x10	Ampeg SVT-810E* 8x10" bass cabinet
Factory Acoustic Cab(10)	
Dreadnought 1	Dreadnought guitar simulation 1
Dreadnought 2	Dreadnought guitar simulation 2
Orchestal	Simulates an OM type acoustic guitar
Jumbo	Simulates a jumbo acoustic guitar
Hum Bird	Simulates the iconic "H-Bird" acoustic guitar
Auditorium	Simulates a GA type acoustic guitar
Classical	Simulates a classical guitar
Mandolin	Simulates a mandolon
Fretless Bass	Simulates a fretless acoustic bass
Double Bass	Simulates a double bass
User IR	
User IR (71-80)	For loading 3rd party IR files; the output will be muted when switched to an empty User IR slot

Mic Type		
Name	Based On	Type
OFF	N/A	N/A
Dyn 57	Shure® SM57*	Dynamic
Dyn 58	Shure® SM58*	Dynamic
Dyn 421	Sennheiser® MD421*	Dynamic
Dyn 16	Electro-Voice RE16*	Dynamic
Dyn 112	AKG® D112*	Dynamic
Dyn 609	Sennheiser® e609*	Dynamic
Con U67	Neumann® U67*	Condenser
Con 87A	Shure® Beta 87A*	Condenser
Con U87	Neumann® U87*	Condenser
Rib 121	Royal® R121*	Ribbon

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Effect List

Effect Models List

EQ(7)		
FX Title	Description	Parameters & Range
Guitar EQ 1	Equalizer designed for guitars	125Hz (-50~+50) Boosts/cuts the frequency band 400Hz (-50~+50) Boosts/cuts the frequency band 800Hz (-50~+50) Boosts/cuts the frequency band 1.6kHz (-50~+50) Boosts/cuts the frequency band 4kHz (-50~+50) Boosts/cuts the frequency band Volume (0~100) Controls the output volume
Guitar EQ 2		100Hz (-50~+50) Boosts/cuts the frequency band 500Hz (-50~+50) Boosts/cuts the frequency band 1kHz (-50~+50) Boosts/cuts the frequency band 3kHz (-50~+50) Boosts/cuts the frequency band 6kHz (-50~+50) Boosts/cuts the frequency band Volume(0~100) Controls the output volume
Bass EQ 1	Equalizer designed for basses	50Hz (-50~+50) Boosts/cuts the frequency band 120Hz (-50~+50) Boosts/cuts the frequency band 400Hz (-50~+50) Boosts/cuts the frequency band 800Hz (-50~+50) Boosts/cuts the frequency band 4.5kHz (-50~+50) Boosts/cuts the frequency band Volume (0~100) Controls the output volume
Bass EQ 2	Equalizer designed for basses	125Hz (-50~+50) Boosts/cuts the frequency band 400Hz (-50~+50) Boosts/cuts the frequency band 800Hz (-50~+50) Boosts/cuts the frequency band 1.6kHz (-50~+50) Boosts/cuts the frequency band 4kHz (-50~+50) Boosts/cuts the frequency band Volume (0~100) Controls the output volume
Para EQ	4-band parametric EQ with low/high shelving filters suitable for any instrument	Band 1 (50Hz-400Hz) Controls the band 1 center frequency Q 1 (0.1-10) Controls the band 1 Q bandwidth Gain 1 (-12dB~+12dB) Boosts/cuts band 1 by ±12dB Band 2 (200Hz-2.0kHz) Controls the band 2 center frequency Q 2 (0.1-10) Controls the band 2 Q bandwidth Gain 2 (-12dB~+12dB) Boosts/cuts band 2 by ±12dB Band 3 (1.0kHz-10.0kHz) Controls the band 3 center frequency Q 3 (0.1-10) Controls the band 3 Q bandwidth Gain 3 (-12dB~+12dB) Boosts/cuts band 3 by ±12dB Band 4 (5.0kHz-16.0kHz) Controls the band 4 center frequency Q 4 (0.1-10) Controls the band 4 Q bandwidth Gain 4 (-12dB~+12dB) Boosts/cuts band 4 by ±12dB Lo Shelf Controls the low shelf filter boost/cut range by ±12dB Hi Shelf Controls the high shelf filter boost/cut range by ±12dB Volume Controls the output volume

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Effect List

Effect Models List

Graphic EQ	10-band graphic EQ suitable for any instrument	31Hz (-12dB~+12dB) Boosts/cuts the frequency band 63Hz (-12dB~+12dB) Boosts/cuts the frequency band 125Hz (-12dB~+12dB) Boosts/cuts the frequency band 250Hz (-12dB~+12dB) Boosts/cuts the frequency band 500Hz (-12dB~+12dB) Boosts/cuts the frequency band 1kHz (-12dB~+12dB) Boosts/cuts the frequency band 2kHz (-12dB~+12dB) Boosts/cuts the frequency band 4kHz (-12dB~+12dB) Boosts/cuts the frequency band 8kHz (-12dB~+12dB) Boosts/cuts the frequency band 16kHz (-12dB~+12dB) Boosts/cuts the frequency band Volume (0~100) Controls the output volume
V-EQ	Based on the 5-band EQ module on Mesa/Boogie®* amps	80Hz (-50~+50) Boosts/cuts the frequency band 240Hz (-50~+50) Boosts/cuts the frequency band 750Hz (-50~+50) Boosts/cuts the frequency band 2.2kHz (-50~+50) Boosts/cuts the frequency band 6.6Hz (-50~+50) Boosts/cuts the frequency band

DLY(20)

Sweetie	Based on the legendary 3-knob BBD analog delay pedal with "REPEAT RATE" control	Mix (0~100) Contols the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Sync (Off/On) Switches Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
Recaller	Based on legendary Electro-Harmonix® Deluxe Memory Man®*	
Pure Eko	Produce pure, precised delay sound	
Analog Eko	Produciing warm delay sound with analog feel	
Ekopress 80	Based on Maxon® AD80 Analog Delay* (early MN3005 version) with great dynamics (due to 18V power supply) and slightly lo-fi'd repets	Mix (0~100) Contols the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Sync (Off/On) Switches Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
Mag Eko	Simulates solid-state tape echo sound	
Tube Eko	Simulates tube-driven tape echo sound	
Ekopress 900	Based on Maxon® AD900 Analog Delay*, providing warm, accurate delay sound	
Ekopress 999	Based on Maxon® AD999 Analog Delay* with slightly overdriven delay sound	
Backmask	Producing a special delay effect with reversed feedback	
Dual Eko	Producing a pure dual delay effect with separated L/R channel signal proessing	Mix A (0~100) Contols the delay A wet/dry signal ratio FB A (0~100) Controls the feedback amount of delay A Time A (20ms-4000ms) Controls the delay time of delay A Mix B (0~100) Contols the delay B wet/dry signal ratio FB B (0~100) Controls the feedback amount of delay B Time B (20ms-4000ms) Controls the delay time of delay B A Sync (Off/On) Switches delay A Tap Tempo sync on/off B Sync (Off/On) Switches delay B Tap Tempo sync on/off Trail(Off/On) Switches effect trail on/off

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Effect List

Effect Models List

Ping Pong	A ping-pong delay producing stereo feedbadk bounces back and forth between left and right channels	Mix (0~100) Contols the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Sync (Off/On) Switches Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
Multi Head	A multi tap delay that simulates a huge 4-head tape echo machine	Mix (0~100) Contols the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Tone (0~100) Controls the effect tone brightness Mode (1-12) Selects from 12 different head variations Sync (Off/On) Switches Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
Slapback	Simulates the classic slapback echo effect	Mix (0~100) Contols the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-300ms) Controls the delay time Trail (Off/On) Switches effect trail on/off
Vintage Rack	Reproduces the sound of a vintage 1980's rack-mount delay machine with slightly sample-reduced feedback	Mix (0~100) Contols the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Mod (0~100) Controls the modulation amoun Tone (0~100) Controls the modulation brightness Sync (Off/On) Switches Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
Sweep Eko	Producing a delay effect with sweeping filter modulated repeats	Mix (0~100) Contols the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Sweep Depth (0~100) Controls the sweeping depth Sweep Rate (0~100) Controls the sweeping speed Swp Sync (Off/On) Switches sweeping Tap Tempo sync on/off Time Sync (Off/On) Switches delay Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
Trem Eko	Producing a delay effect with tremolo altered repeats	Mix (0~100) Contols the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Trem Depth (0~100) Controls the tremolo depth Trem Rate (0~100) Controls the tremolo speed Trem Sync (Off/On) Switches tremolo Tap Tempo sync on/off Time Sync (Off/On) Switches delay Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off

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Effect List

Effect Models List

Lofi Eko	Producing a delay effect with lo-fi'd repeats	Mix (0~100) Controls the wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Bit (0~100) Controls the effect bit depth Krush (0~100) Controls the effect downsampling rate Sync (Off/On) Switches Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
Ring Eko	Producing a delay effect with ring modulated repeats	Dly Mix (0~100) Contols the delay wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Ring Mix (0~100) Contols the modulation wet/dry signal ratio Freq (0~100) Controls the ring modulation frequency Tone (0~100) Controls the ring modulation tone Sync (Off/On) Switches Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
Ekoverb	Combines delay and reverb in one	Dly Mix (0~100) Contols the delay wet/dry signal ratio Feedback (0~100) Controls the feedback amount Time (20ms-4000ms) Controls the delay time Rvb Mix (0~100) Contols the reverb wet/dry signal ratio Hi Cut (0~100) Controls the reverb high cut amount Decay (0~100) Controls the reverb decay time Sync (Off/On) Switches Tap Tempo sync on/off Trail (Off/On) Switches effect trail on/off
RVB(10)		
Room	Simulates the spaciousness of a room	Mix (0~100) Controls the wet/dry signal ratio Pre Delay (0ms-100ms) Controls the pre delay time Decay (0~100) Controls the reverb decay time Trail (Off/On) Switches effect trail on/off
Hall	Simulates the spaciousness of a performance hall	
Church	Simulates the spaciousness of a church	
Plate	Simulates the sound character produced by a vintage plate reverberator	Mix (0~100) Controls the wet/dry signal ratio Decay (0~100) Controls the reverb decay time High Damp (0~100) Controls the high cut amount Trail (Off/On) Switches effect trail on/off
Spring	Simulates the sound character produced by a vintage spring reverberator	Mix (0~100) Controls the wet/dry signal ratio Decay (0~100) Controls the reverb decay time Tone (0~100) Controls the effect tone brightness Trail (Off/On) Switches effect trail on/off
Izumi	Special-tuned reverb effect with liquid-like decays and deep low ends	Mix (0~100) Controls the wet/dry signal ratio Decay (0~100) Controls the reverb decay time Trail (Off/On) Switches effect trail on/off
Northstar	Special-tuned reverb effect with lush, bright decays	
Oceandeep	Special-tuned reverb effect with huge, deep decays	

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Effect List

Effect Models List

Sweet Space	Produces a modulated reverb effect that is lush and sweet	Mix (0~100) Controls the wet/dry signal ratio Pre Delay (0ms-100ms) Controls the pre delay time Decay (0~100) Controls the reverb decay time Lo End (-50~+50) Controls the effect low frequency amount Hi End (-50~+50) Controls the effect high frequency amount Trail (Off/On) Switches effect trail on/off
Shimmer	Produce a rich, shimmering reverb effect	Mix (0~100) Controls the wet/dry signal ratio Pre Delay (0ms-100ms) Controls the pre delay time Decay (0~100) Controls the reverb decay time Lo End (-50~+50) Controls the effect low frequency amount Hi End (-50~+50) Controls the effect high frequency amount Trail (Off/On) Switches effect trail on/off

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Drum Machine Rhythms

Type	Number	Name	Time Signature
8 Beat Rhythms	0	8-Beat 1	4/4
	1	8-Beat 2	4/4
	2	8-Beat 3	4/4
	3	8-Beat 4	4/4
	4	8-Beat 5	4/4
	5	8-Beat 6	4/4
	6	8-Beat 7	4/4
	7	8-Beat 8	4/4
	8	8-Beat 9	4/4
	9	8-Beat 10	4/4
16 Beat Rhythms	10	16-Beat 1	4/4
	11	16-Beat 2	4/4
	12	16-Beat 3	4/4
	13	16-Beat 4	4/4
	14	16-Beat 5	4/4
	15	16-Beat 6	4/4
	16	16-Beat 7	4/4
	17	16-Beat 8	4/4
	18	16-Beat 9	4/4
	19	16-Beat 10	4/4

HOTONE
DESIGN INSPIRATION

AMPERO
Amp Modeler / Effects Processor

Effects List

Drum Machine Rhythms

Type	Number	Name	Time Signature
4 Beat Rhythms	20	4-Beat 1	4/4
	21	4-Beat 2	4/4
	22	4-Beat 3	4/4
	23	4-Beat 4	4/4
	24	4-Beat 5	4/4
	25	4-Beat 6	4/4
	26	4-Beat 7	4/4
	27	4-Beat 8	4/4
	28	4-Beat 9	4/4
	29	4-Beat 10	4/4
Rock	30	Roots	4/4
	31	Classic Rock	4/4
	32	Pop Rock	4/4
	33	Slow Rock	4/4
	34	Rock Shuffle	4/4
	35	Rock Ballad	4/4
	36	Punk	4/4
	37	New Wave	4/4
	38	Hard Rock	4/4
	39	Metal	4/4
Funk	40	Funk	4/4
	41	Funk Rock	4/4
	42	Electro Funk	4/4
	43	Soul	4/4
	44	R&B	4/4
Jazz	45	Jazz	4/4
	46	Big Band	4/4
	47	Fusion	4/4
	48	Swing	4/4
	49	Dixieland	4/4
Blues	50	Blues	4/4
	51	Country	4/4
	52	Folk	4/4
	53	Rockabilly	4/4
	54	Bluegrass	2/4
Latin	55	Bossa nova	4/4
	56	Rumba	4/4
	57	Samba	4/4
	58	Cha Cha	4/4
	59	Tango	4/4
	60	Reggae	4/4
	61	Beguine	4/4
	62	Latin Pop	4/4

Effects List

Drum Machine Rhythms

Type	Number	Name	Time Signature
Latin	63	Latin Rock	4/4
	64	Latin Dance	4/4
Electronic	65	Hip Hop	4/4
	66	Trip Hop	4/4
	67	Techno	4/4
	68	Break Beat	4/4
	69	Drum n' Bass	4/4
World	70	Waltz	3/4
	71	Polka	4/4
	72	March	4/4
	73	6/8 March	6/8
	74	Army March	4/4
	75	Mazurka	3/4
	76	Musette	3/4
	77	Ska	4/4
	78	New Age	4/4
	79	World	4/4
Various Beat	80	3/4 Beat1	3/4
	81	3/4 Beat2	3/4
	82	6/8 Beat1	6/8
	83	6/8 Beat2	6/8
	84	5/4 Beat	5/4
	85	6/4 Beat	6/4
	86	7/4 Beat	7/4
	87	9/8 Beat	9/8
	88	10/8 Beat	10/8
	89	11/8 Beat	11/8
Metronome	90	Metronome 1/4	1/4
	91	Metronome 2/4	2/4
	92	Metronome 3/4	3/4
	93	Metronome 4/4	4/4
	94	Metronome 5/4	5/4
	95	Metronome 6/4	6/4
	96	Metronome 7/4	7/4
	97	Metronome 6/8	6/8
	98	Metronome 7/8	7/8
	99	Metronome 9/8	9/8

Effects List

MIDI Control Information List

CC#	Value Range	Comments
0	0-1	Bank MSB: User Patch: CC 0=1, PC=0-98 Factory Patch: CC 0=0, PC=0-98
7	0-100	Patch Volume
11	0-127	EXP 1
13	0-127	EXP 1 on/off: 0-63: off 64-127: on
16	0-127	Quick Access Knob 1 MSB
17	0-127	Quick Access Knob 1 LSB
18	0-127	Quick Access Knob 2 MSB
19	0-127	Quick Access Knob 2 LSB
20	0-127	Quick Access Knob 3 MSB
21	0-127	Quick Access Knob 3 LSB
22	0-127	Bank Back
23	0-127	Bank Forward
24	0-127	Patch Back
25	0-127	Patch Forward
26	0-127	Bank Back (Wait Mode)
27	0-127	Bank Forward (Wait Mode)
48	0-127	Fx1 Module on/off: 0-63: off 64-127: on
49	0-127	Fx2 Module on/off: 0-63: off 64-127: on
50	0-127	AMP Module on/off: 0-63: off 64-127: on
51	0-127	NR Module on/off: 0-63: off 64-127: on
52	0-127	CAB Module on/off: 0-63: off 64-127: on
53	0-127	EQ Module on/off: 0-63: off 64-127: on
54	0-127	FX3 Module on/off: 0-63: off 64-127: on
55	0-127	DLY Module on/off: 0-63: off 64-127: on

CC#	Value Range	Comments
56	0-127	RVB Module on/off: 0-63: off 64-127: on
57	0-127	Tuner on/off: 0-63: off 64-127: on
58	0-127	Drum Machine Menu on/off: 0-63: off 64-127: on
59	0-127	Drum Machine Play/Stop 0-63: Stop 64-127: Play
60	0-99	Drum Machine Rhythm Type
61	0-100	Drum Machine Volume
62	0-127	Looper on/off: 0-63: off 64-127: on
63	0-127	Looper Record
64	0-126	Looper Play/Stop 0-63: Stop 64-127: Play
65	0-127	Looper Tempo 0-63: Half-speed 64-127: Normal Speed
66	0-127	Looper Playback Status 0-63: Reverse 64-127: Normal
68	0-127	Delete Loop
69	0-99	Looper Recording Volume
70	0-99	Looper Playback Volume
71	0-127	Looper Placement 0-63: Rear 64-127: Front
72	0-127	CTRL Footswitch
73	0-1	Tempo MSB
74	0-127	CC73=0, CC74=40-127: 40BPM-127BPM CC73=1, CC74=0-122: 128BPM-250BPM
75	0-127	Tap Tempo
76	0-127	Device lock/unlock 0-63: lock 64-127: unlock

Troubleshooting

Device won't turn on
• Make sure the power supply is properly connected and the device is switched on.
• Check if the power adapter is working properly.
•Check if you're using the correct power adapter.

No sound or slight sound
• Make sure your cables are connected properly.
• Make sure the volume knob is adjusted properly.
• When the expression pedal is used for volume control, check it's position and volume settings.
• Check the effects module volume settings.
• Check the patch volume settings.
• Make sure your input device is not muted.

Noise
• Make sure your cables are connected properly.
• Check your instrument output jack.
• Check if you're using the correct power adapter.
• When using the balanced outputs, try switching the GND LIFT on.
•If the noise is coming from your instrument, try using the noise reduction
module to adjust it.

Sound problems
• Make sure your cables are connected properly.
• Check your instrument output jack.
• If you're using an external expression pedal to control distortion or other similar
parameters, check to see if the expression pedal is set up properly.
• Check your effects parameter setup. If effects are set to extremes, Ampero may only emit noise.

Problems with expression pedal
• Check your expression pedal on/off settings.
• Try calibrating the pedal.
• When using an external expression pedal, make sure you're using a 1/4" male-to-male TRS cable. the adapter from the outlet.
• Make sure your hands are dry when plugging in the adapter.

Technical Specifications

Digital Audio Signal Processing: 24-bit depth, 44.1kHz sample rate
SNR: 120dB
Effects: 242
Effects Modules: Total of 9 simultaneous
Patches: 198 (99 user patches, 99 factory patches)
Looper Time: Mono 100 seconds, Stereo 50 seconds
Internal Drum Machine: 100 Rhythm Patterns
Inputs:
    One 1/4" Tip Sleeve (TS) Instrument jack, with three way input mode selection
    One 1/8" Stereo Auxiliary In (Aux In) jack
    One 1/4" Tip Ring Sleeve (TRS) Expression Pedal input jack
    One Standard 5 pin MIDI input jack
Outputs:
    Two 1/4" Tip Sleeve (TS) Unbalanced Stereo output jacks
    Two XLR Balanced stereo output jacks, with ground lift switch
    One 1/8" Stereo headphones output jack
Input resistance:
    Instrument Input: E.GT: 1MΩ; A.GT: 4.7MΩ; LINE: 10kΩ
    Aux In: 10kΩ
Output resistance:
    Unbalanced Output: 3.2kΩ
    Balanced Output: 2kΩ
    Headphones: 66Ω
Screen: 4" 800 x 480 Color Dynamic Display Touch Screen
USB Port: USB 2.0 Type-B port, supports USB Audio 2.0
Impulse Response/IR processing: Supports 24-bit/44.1kHz Mono WAV files, 1024 points
Power Requirements: 18V DC Center Negative
Current Consumption: 500mA Max
Dimensions: 320mm (L) x 147mm (W) x 46mm (H)
Weight: 1408g