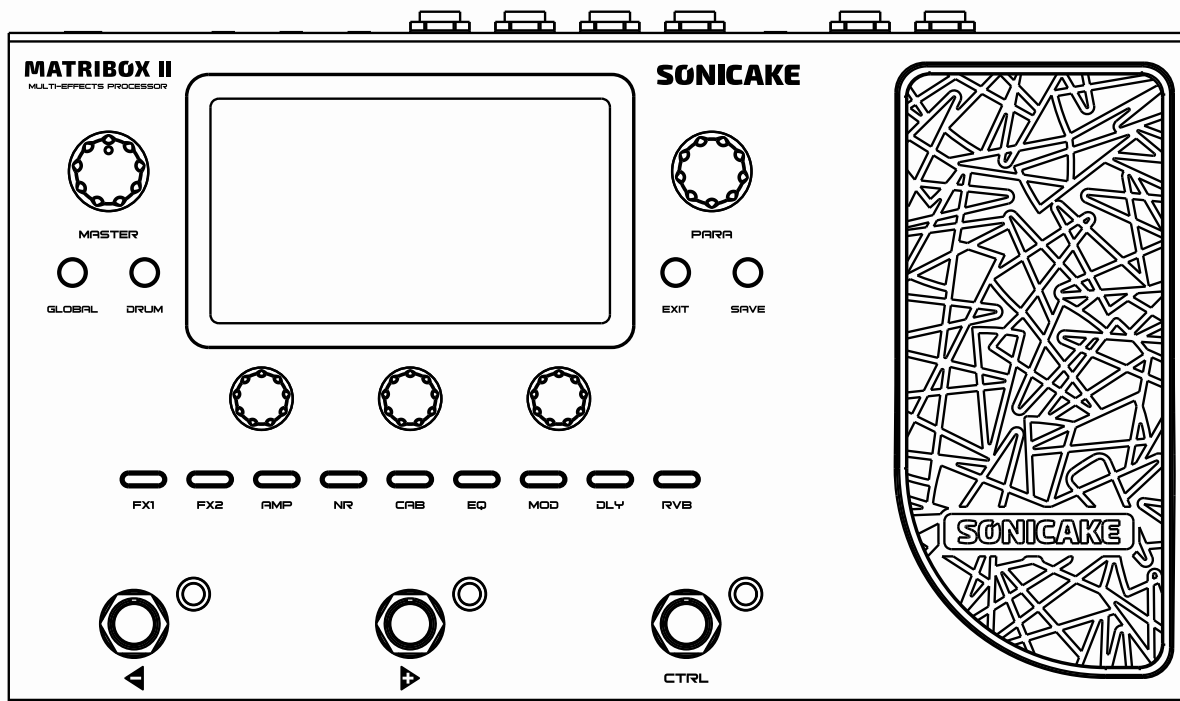


MATRIBOX II

MULTI-EFFECTS PROCESSOR

USER'S MANUAL

For Firmware V1.0.3



SONICAKE
www.sonicake.com

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

TABLE OF CONTENTS

ATTENTION	1
OVERVIEW	2
PANEL INTRODUCTION	3
MAIN MENU	5
EFFECTS EDITING	6
SAVE MENU	10
TUNER	10
LOOPER	11
DRUM	11
Global Settings	12
Input/Output	12
USB Audio	13
Footswitch	14
EXP Calibrate	16
EXP 2 / Footswitch	16
MIDI	17
Display	17
Auto CAB Match	18
Global EQ	18
About	18
Factory Reset	19
Compatible software	19
EFFECT LIST	20
FX1 & FX2 modules	20
AMP modules	25
NR modules	28
CAB modules	29
EQ modules	32
MOD modules	32
DLY modules	34
RVB modules	36
SND / RTN / VOL modules	37
MIDI Control Information List	38
Troubleshooting	42
Specifications	43

ATTENTION

Handling

- Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately.
- Do not block any of the ventilation openings.
- Keep away from heat sources.
- Disconnect the unit during storms to prevent damage.
- Operation of this unit within significant electromagnetic fields should be avoided.

Connecting the power and input/output jacks

- Always turn OFF the power to the unit and all other equipment before connecting or disconnecting any cables.
- Also make sure to disconnect all connection cables and the AC adapter before moving the unit.

Cleaning

- Clean only with a dry cloth.

Alterations

- Do not open the unit.
- Do not attempt to service the unit yourself.
- Opening the chassis for any reason will void the manufacturer's warranty.

AC Adapter Operation

- Always use a DC9V center negative 1000mA AC adapter. Use of an adapter other than that specified could damage the unit or cause malfunction and pose a safety hazard. Always connect the AC adapter to an AC outlet that supplies the rated voltage required by the adapter.
- Unplug the unit during lightning storms or when unused for long periods of time.

Malfunction

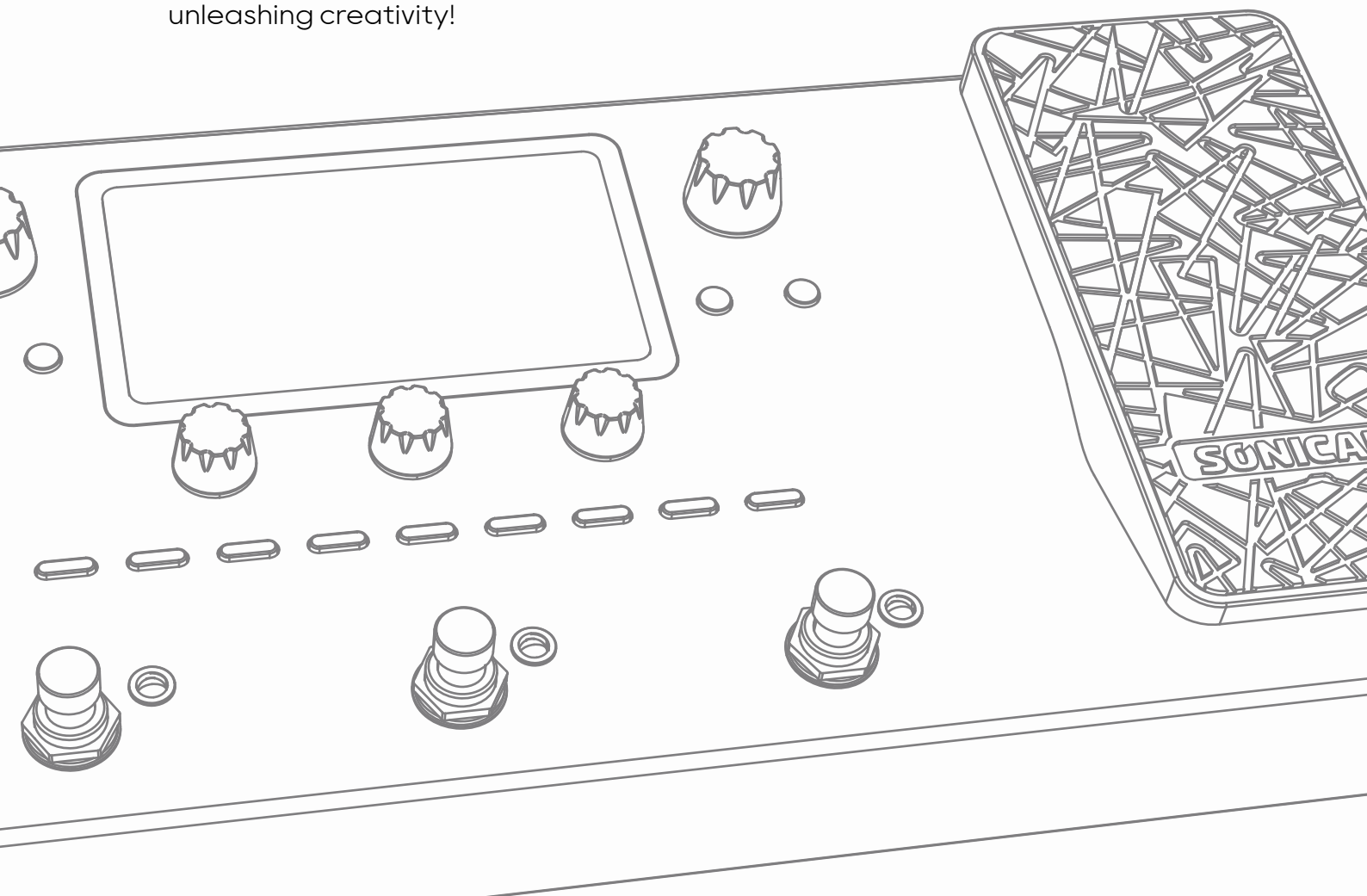
- If the unit should malfunction, disconnect the AC adapter and turn the power OFF immediately. Then, disconnect all other connected cables.
- Prepare information including the model name, serial number, specific symptoms related to the malfunction and contact SONICAKE support (support@sonicake.com).

OVERVIEW

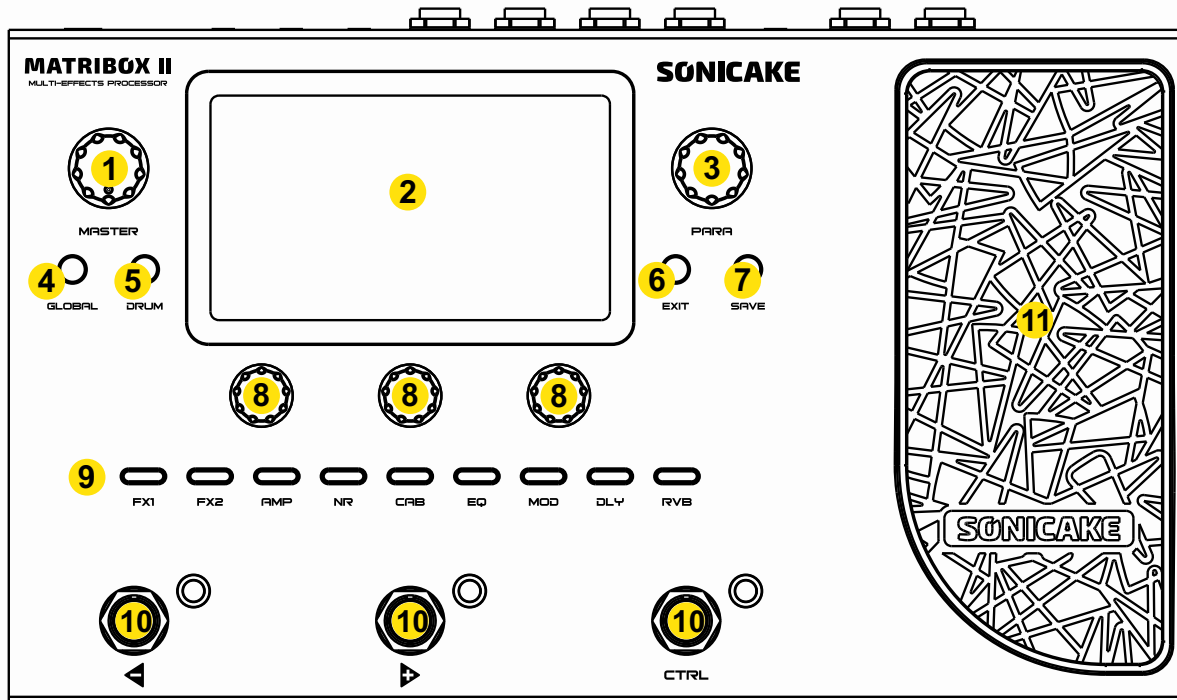
Matribox II is Sonicake's second-generation multi-effect processor, inheriting the rich technical accumulation of the first-generation products and making further breakthroughs in technology and quality. The new hardware platform and digital modeling technology can perfectly reproduce every detail of the sound, and perform more accurately, clearly and with high fidelity, meeting various creative needs.

Compared with the first-generation product, Matribox II has a more user-friendly and easy-to-understand operating interface, and its humanized design allows you to control it more freely. It provides a wider range of amplifier and effect models, and also provides you with more freedom to set the effect parameters, allowing you to adjust various sounds as you like. In terms of hardware, the interaction module of Matribox II and the design of I/O ports have outstanding performance and quality.

Therefore, Matribox II can be said to be the overall evolution of the first-generation product, and its outstanding performance makes it a full-featured inspiration shaping device. Whether in the studio or live performances, musicians and artists can rely on it to achieve better sound and expression. It is a revolution in the Sonicake, a breakthrough in music and technology, and the best choice for creating personalized music and unleashing creativity!

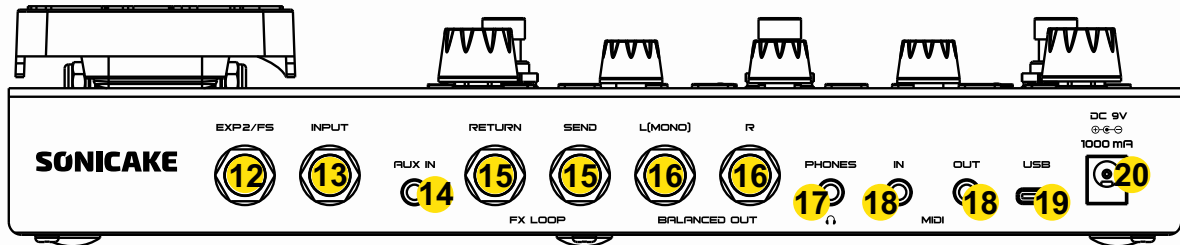


PANEL INTRODUCTION



- 1 Controls the master volume
- 2 To display preset information and other operational information
- 3 Can be turned or pressed to adjust parameters or change menus
- 4 Press to enter the Global menu
- 5 Press to turn on/off the drum machine, hold to enter the Drum menu
- 6 Press to return to the previous menu
- 7 Press to enter the Save menu to store changed parameters, rename or copy presets
- 8 To adjust the parameters at the bottom of the screen, each menu has different functions
- 9 Press to enter this effect module edit menu, press and hold to turn on/off module
- 10 To switch presets, control modules on/off, etc.
- 11 To control effect parameters or volume, and press the toe hard to switch the pedal function

PANEL INTRODUCTION

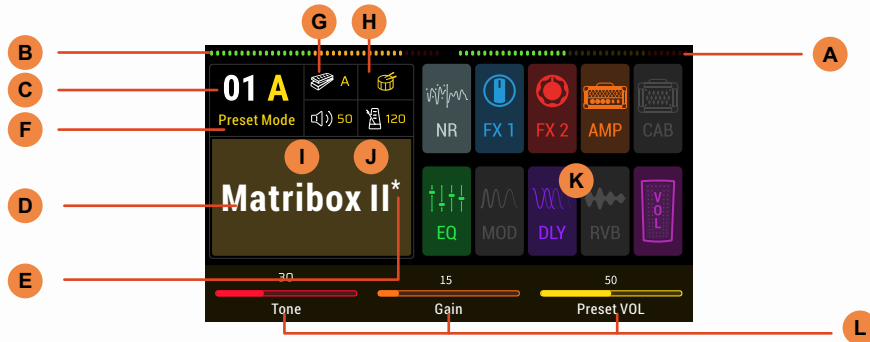


- 12** 1/4" TRS for connecting an external expression pedal or footswitch controller
- 13** 1/4" TS mono input jack for plugging in your instrument
- 14** 1/8" TRS stereo input for connecting external devices (phone, MP3 player)
- 15** 2x1/4" TS jacks for inserting external effect pedals into your signal chain
- 16** 2x1/4" stereo output jacks, compatible with balanced (TRS) and unbalanced (TS) outputs, for plugging in amps or other equipment
- 17** 1/8" TRS stereo output for plugging in headphones
- 18** 2x1/8" TRS jacks for connecting MIDI devices
- 19** USB Type-C connects to computer for use with supporting edit software or connects to computer/phone as an audio interface
- 20** Plug in the DC 9V (1000mA) center negative power jack

MAIN MENU

After startup, Matribox II defaults to the main menu, which has two display modes: one focused on the effects chain and the other focused on the footswitch function. These two display modes correspond to two footswitch modes under default settings: Preset mode and Stomp mode.

PRESET MODE



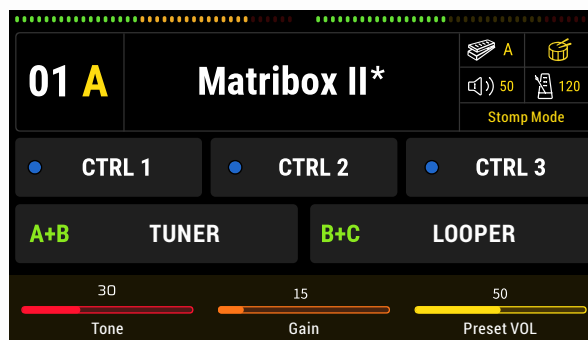
- A** Input Level Monitor: monitors the input level. When the progress bar turns red, it means the level has reached its peak
- B** Output Level Monitor: monitors the output level. When the progress bar turns red, it means the level has reached its peak
- C** Preset Number: from 01-A to 66-C, where the number represents the preset group, and each preset group is divided into three presets: A, B, and C
- D** Preset Name
- E** Preset State: if it appears, this preset has been changed
- F** Footswitch Mode: indicates the current working status of the footswitch, whether it is in preset mode or stomp mode
- G** EXP 1 Status: indicates the status of the built-in expression pedal A/B
- H** Drum Status: this icon lights up or goes off to indicate the on/off status of the drum machine
- I** Preset Volume: indicates the preset volume of the current preset, ranging from 0-100
- J** Preset Speed: indicates the preset speed of the current preset, ranging from 40-250
- K** Effect Chain: indicates the order of the effect modules and the on/off status of each module in the current preset's effect chain
- L** Parameter Bar: indicates the three quick-adjust parameters controlled by the three knobs below the screen that correspond to the current preset. The controlled parameters can be customized and are further described in P08

MAIN MENU

In preset mode, from left to right, A, B, and C footswitch functions are defaulted to switch to the previous preset, switch to the next preset, and CTRL 1, respectively. Simultaneously press the A and B footswitches will enter the tuner, while simultaneously pressing the B and C footswitches will enter the looper menu. Long-pressing the C footswitch will switch to stomp mode.

STOMP MODE

In stomp mode, the display content is similar to the preset mode, but it will not display the preset effect chain and instead show the footswitch functions.



In stomp mode, the default functions of the A, B, and C footswitches are CTRL 1, CTRL 2, and CTRL 3, respectively. Simultaneously pressing the A and B footswitches will enter the tuner, and simultaneously pressing the B and C footswitches will enter the looper menu. Long-pressing the A footswitch will switch to the tap tempo function (long-press again to exit), and long-pressing the C footswitch will switch to the preset mode.

EFFECTS EDITING

Edit presets and effects using the effects chain editing menu, effect module editing menu, preset setting menu, and save menu.

EFFECTS CHAIN EDITING MENU

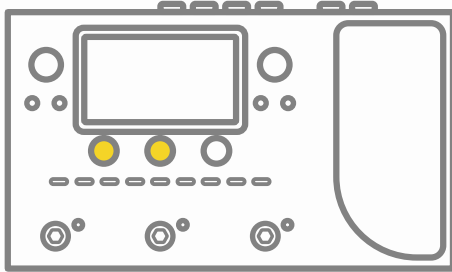
Press the PARA knob on the main menu to enter the effects chain editing menu.



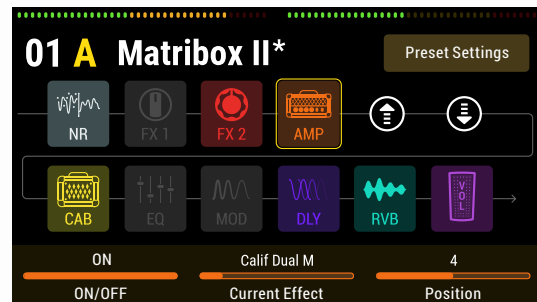
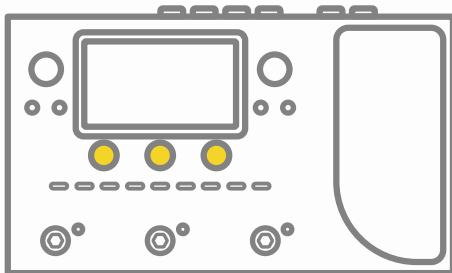
This menu will display the complete effects chain, including the effect loop nodes, as well as the order and on/off status of the modules.

EFFECTS EDITING

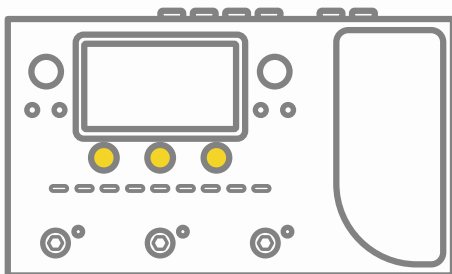
When the PARA knob is set to "Preset Settings", you can use the knobs below the screen to adjust the preset volume and BPM. Pressing the PARA knob will take you to the preset settings menu for further control over the presets.



When the PARA knob is set to "FX 1", "FX 2", "AMP", "NR", "CAB", "EQ", "MOD", "DLY", or "RVB" modules, you can use the knobs below the screen to adjust the module on/off switch, current effect, and module position. Pressing the PARA knob will take you to the effect module editing menu for more detailed adjustment of module effects and parameters.



When the PARA knob is set to "VOL", you can use the knobs below the screen to adjust the module on/off switch, volume, and module position. However, unlike the other modules, this module is not in the effect module editing menu. It's recommended to link this module to a EXP to simulate a volume pedal in the effects chain. Please refer to P09 for more details.



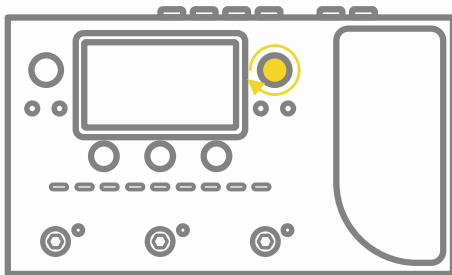
EFFECTS EDITING

The send and return nodes of the effect loop are not part of the effect modules and are also not on the effect module editing menu. When the PARA knob is set to the send node, you can use the knobs below the screen to adjust the send volume and send node position. When the PARA knob is set to the return node, you can use the knobs below the screen to adjust the return volume, mix, and return node position. The mix is the ratio between the effect loop signal and the original effect chain signal. When the mix is at its maximum, the effect chain and effect loop are connected in series.



EFFECT MODULE EDITING MENU

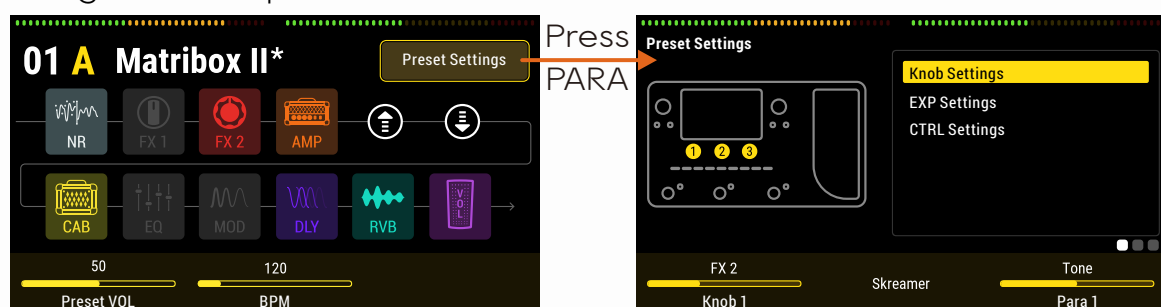
To enter the effect module editing menu, select the effect module in the effect chain editing menu and press the PARA button, or simply press the effect module button on the main menu.



In this menu, you can rotate the PARA knob to select the effect, and press the PARA knob to confirm the current effect selection. After selecting the effect, you can press the PARA knob again to flip through the effect parameter pages, and the upper right corner of the parameter bar will display the current page number.

PRESET SETTING MENU

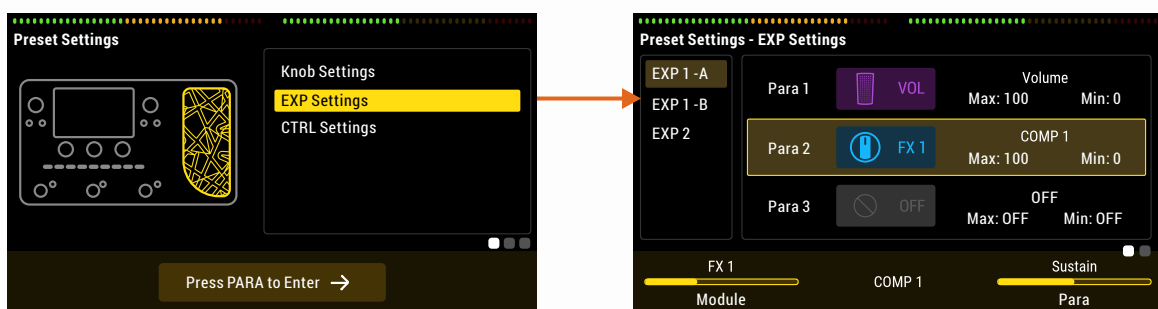
To enter the preset setting menu, select "Preset Settings" in the effects chain editing menu and press the PARA knob.



EFFECTS EDITING

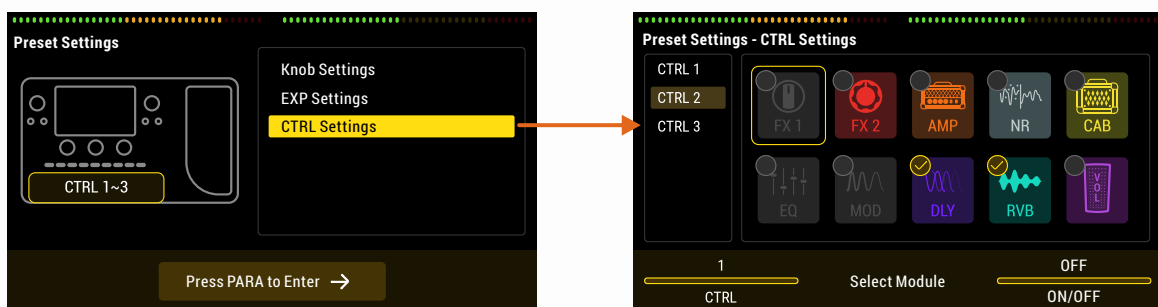
After entering this menu, the cursor is set to “Knob Settings” by default, where you can set the quick adjustment parameters of the parameter bar in the main menu. Use the knobs below the screen to select the controlled module and controlled parameter, not only module parameters, but also controlled parameters can be set as preset volume or BPM. Press the PARA knob at this time to flip through and set the controlled parameters of the other two knobs.

To enter the EXP settings menu, rotate the PARA knob to select “EXP Settings” while in the preset settings menu, and press the PARA knob.



In the EXP settings menu, you can set the control parameters of the built-in pedal EXP 1 and the external pedal EXP 2. EXP 1's A/B status and EXP 2 can control three effect parameters respectively.

To enter the CTRL settings menu, rotate the PARA knob to select “CTRL Settings” while in the preset settings menu, and press the PARA knob.



Matribox II supports three CTRL functions, and each CTRL can be associated with the on/off status of multiple effect modules. Use the first knob to the left of the screen to select CTRL 1/2/3, and use the PARA knob to rotate and press it to associate the selected modules.

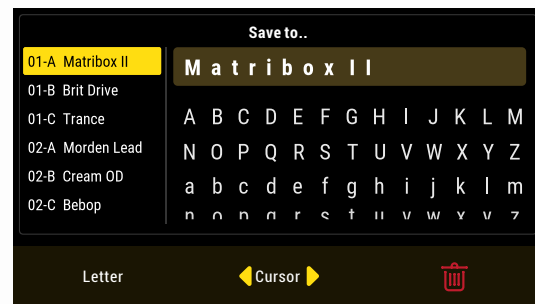
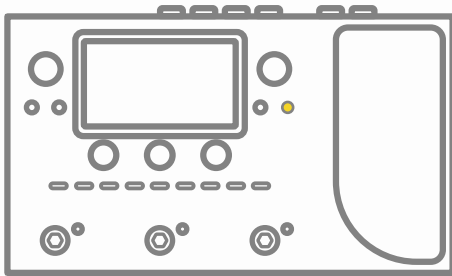
SAVE MENU

Press the SAVE button on any menu to enter the save menu.

After entering this menu, the cursor is first in the left area. Use the PARA knob to select the preset location by rotating and pressing it.

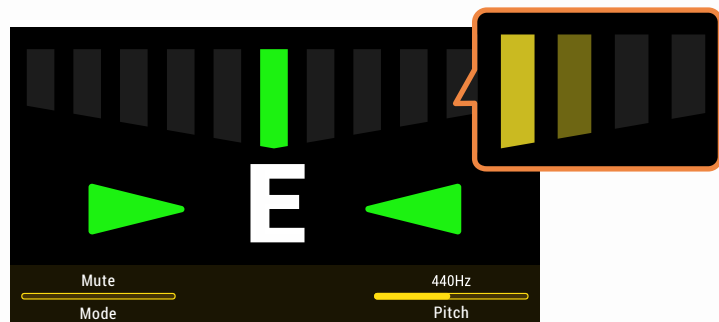
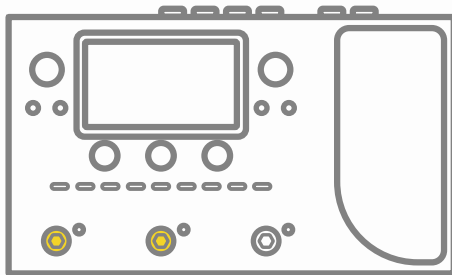
After selecting the preset location, use the three knobs at the bottom of the screen to edit the preset name: Knob 1 selects the character, Knob 2 selects the cursor position, Knob 3 deletes the character at the cursor position.

After editing the preset name, press the SAVE button again to confirm the storage, or press the EXIT button to abandon the storage and return to the previous menu.



TUNER

Under default settings, pressing both footswitches A and B simultaneously will enter the tuner.

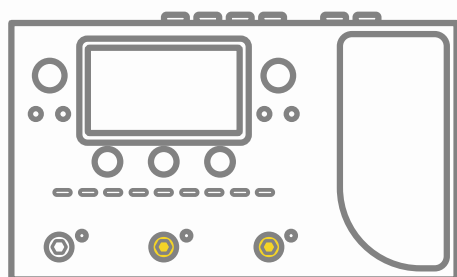


Tuner mode can be set to Mute (for silent tuning), Bypass (for dry signal through) and Thru (for effect signal through).

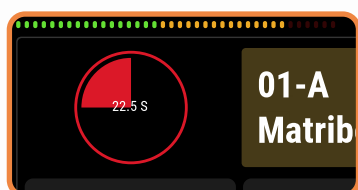
Tuner pitch calibration can be set from 435Hz to 445Hz, default is 440Hz.

LOOPER

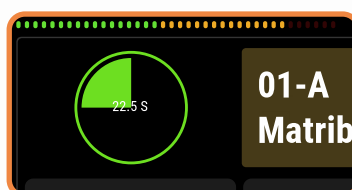
Under default settings, pressing both footswitches B and C simultaneously will enter the looper.



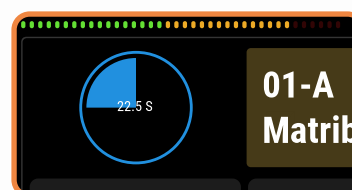
Pressing footswitch A starts recording, pressing it again starts playback, and pressing footswitch A during playback starts overdubbing:



Recording



Playing



overdubbing

Pressing footswitch B stops recording or playback, while holding it down clears all recorded phrases.

Pressing footswitch C performs undo/redo for the last looped overdub phrase, while holding it down exits the looper menu.

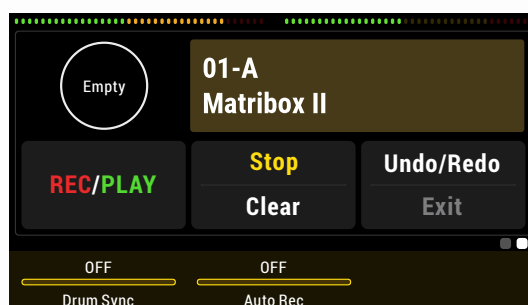
The preset can be switched by turning the PARA knob.

Looper has two modes:

Pre mode, the looper will record mono audio without any effects, up to 90 seconds;

Post mode, the looper will record stereo audio with effects, up to 45 seconds.

Pressing the PARA knob allows you to flip through the parameter bar.

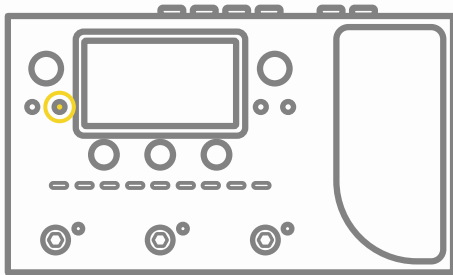


Enabling "Drum Sync" and start recording when the drum machine reaches the beginning of a bar. The recording will be slightly adjusted to align with the drum machine.

When the auto recording is enabled, pressing the footswitch A will not start recording immediately. Instead, recording will start automatically when you start playing.

DRUM

Long press the DRUM button to enter the drum machine menu, where you can set the rhythm style, tempo, synchronization switch, and volume of the drum machine.

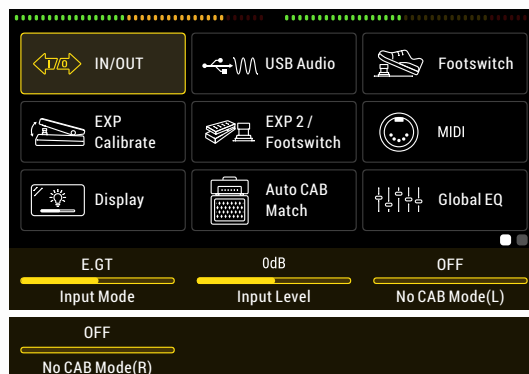


When the "Sync" switch is turned on, the drum machine tempo can be synchronized with the preset BPM.

Global Settings

Press GLOBAL button to enter the global setting. In this menu, rotate the PARA knob to move the cursor, and press the PARA knob to go to the next page or turn the page for the parameter below.

Input/Output



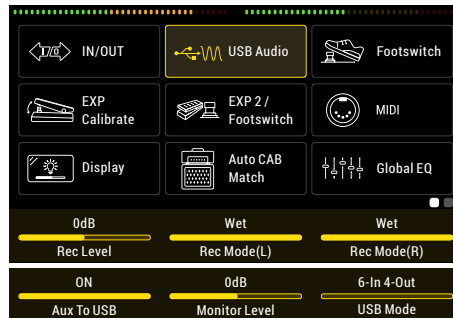
Input Mode: Input Mode: to adjust the impedance, including acoustic guitars (4.7MΩ), electric guitars (1MΩ) and line in (10kΩ), default is E.GT.

Input Level: You can adjust the value to get the best experience based on varied instruments, ranged from -20dB to +20dB

No CAB mode(L/R): By activating no CAB mode on Mono left or right, you can get the audio effect where there is no CAB module simulation in the analog output.

Global Settings

USB Audio



Rec Level: To control the master volume of the recording, ranged from -20dB to $+20\text{dB}$.

Rec Mode L/R: When recording via USB, you can choose to use the left/right channel for dry signal or effect signal.

AUX To USB: When activating, audios from AUX IN can be recorded in USB devices

Monitor Level: To control the volume of playback through USB, ranged from -20dB to $+20\text{dB}$.

USB mode: switch to a multi-channel USB output. The 6-in-4-out mode includes MIDI information and can be selected when using the device as an audio interface. The 2-in-2-out mode does not include MIDI information and is suitable for most mobile systems with OTG functionality, but it cannot connect to computer software .

Using Matrixbox II as an audio interface

When used as a USB audio interface, the Matrixbox II will be recognized by the system as a 6-in/4-out USB device. Here we will show you how to use this function through listing two scenarios.

Scene 1: Using the built-in re-amp function in the DAW to record or adjust the tone

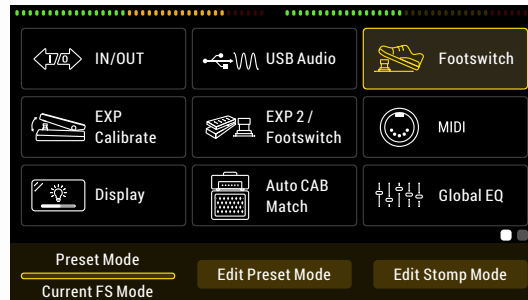
1. Set the Mono L and Mono R's output to "Dry" in the Global Settings-USB Audio
2. In the DAW, create two new Tracks A and B, and import/record a dry guitar Track in A
3. Set Track A output to Output 3-4, set Track B input to Input 3-4, keep Track B's monitoring OFF
4. Play the dry track in DAW, and now you can hear the effect sound of the processed dry track file in Matrixbox II
5. Activate "Record" in Track B on the recording software, then you'll get to record the Track with effect after re-amp on Track B.

Scene 2: Using LOOPBACK function to record, combining the audio from multiple sources on your computer

1. In the DAW, create a new stereo audio track
2. Set the input to Input 5-6
3. Start recording in the DAW
4. By playing other audio sources on your computer, you can record them in the track now

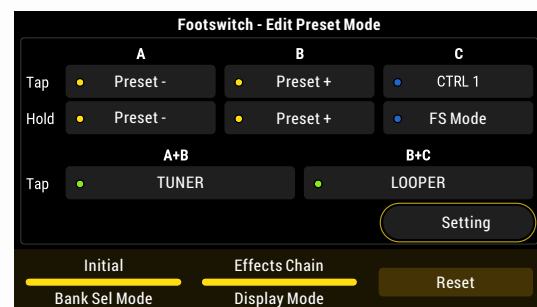
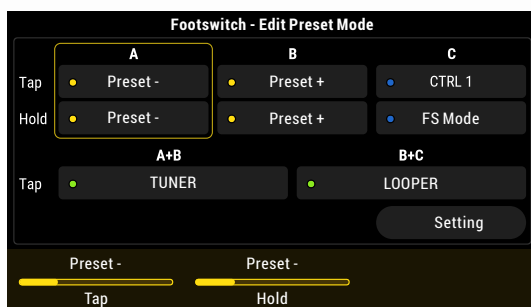
Global Settings

Footswitch



Current Mode: This option is used to select the footswitch function mode, which is divided into Preset mode and STOMP mode. The default mode is Preset mode.

Edit Preset Mode/Stomp Mode: Turn the quick adjustment knob 2 or 3 at the bottom of the screen to enter the interface of editing preset mode or STOMP mode.

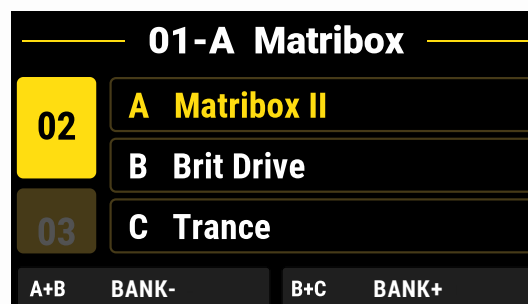


Use PARA knob or tap the corresponding footswitch to position the footswitch to which the function is to be assigned.

Tap/Hold: Used to assign the function of the selected footswitch when tap/hold.

When the last option "Settings" is selected, the corresponding options are:

- **Bank Sel Mode:** The parameters are "Wait" and "Initial". If you select "Initial", the bank will jump immediately when switching, and if you select "Wait", the bank will not jump directly when switching, but will enter the Wait Mode screen.

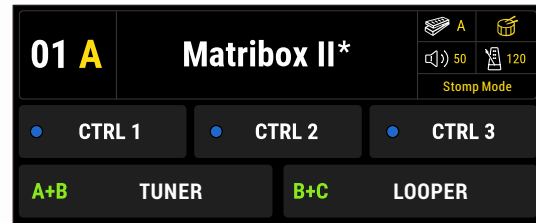


Global Settings

- Display Mode: Choose to display the "effect chain" or "Footswitch function" in the main interface, as follows:

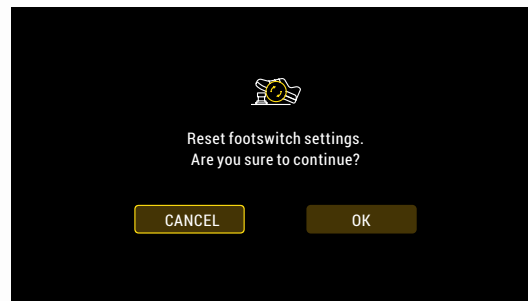


Effect Chain



Footswitch Function

- Reset: Rotate the quick adjust knob 3 to reset the footswitches' function in current page to factory default setting, as follows:



Footswitch functions include:

Bank: Enter bank selecting menu

Bank +/Bank -: Load the latter / former adjacent bank

Preset +/Preset -: Load the latter/ former adjacent preset

A/B/C: Load the A/B/C preset

LOOPER: Enter the Looper

DRUM: Play/stop the drum

Drum Preset+/-: Load the latter/former adjacent drum patch

EXP 1A/B: Switch between A/B of EXP 1

FS Mode: Switch footswitch mode to "Preset Mode" or "Stomp Mode"

TUNER: Enter the tuner

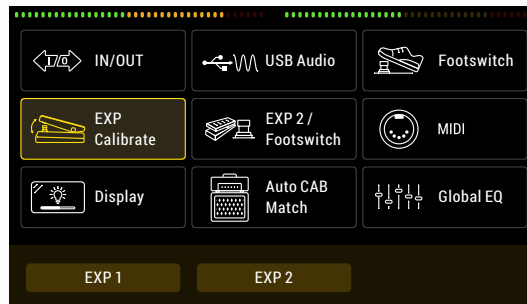
CTRL 1/2/3: Execute CTRL 1/2/3's function

Tap Tempo: Use Tap Tempo

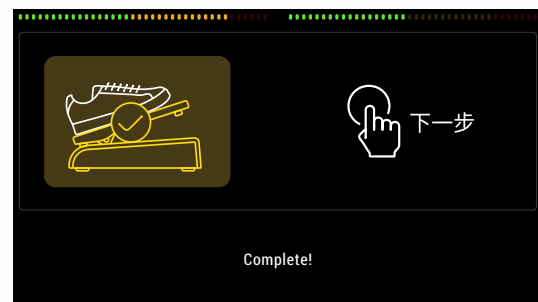
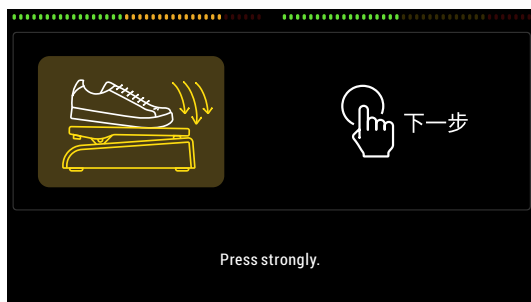
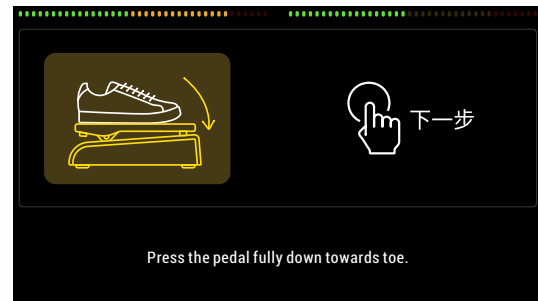
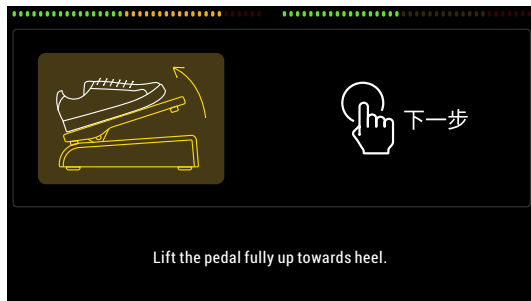
None: No function

Global Settings

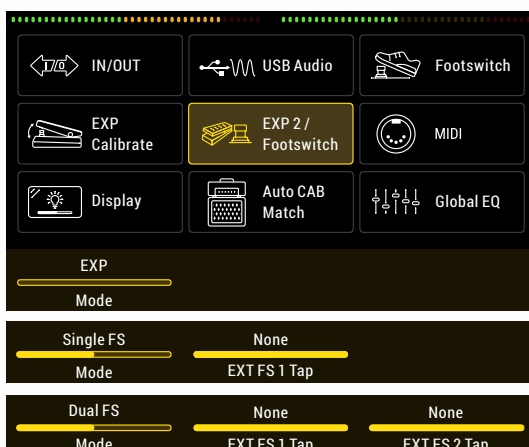
EXP Calibrate



As shown, turn Quick Access Knob 1 or 2 to calibrate EXP 1 or 2.



EXP 2 / Footswitch



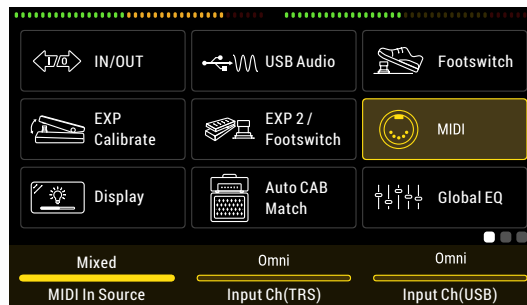
Mode: Select the type of external device to be connected to the EXP/FS jack.

When the connected device is expression pedal, select "EXP" option, then the parameters of EXP control can be set in "Preset Settings - EXP Settings - EXP 2"

When the connected device is single or dual footswitch, select "Single FS" or "Dual FS" option.

Global Settings

MIDI



MIDI In Source: Control where the MIDI message is coming from. The options are "TRS Only" (Only receiving MIDI messages from the MIDI IN), USB Only (Only receiving MIDI messages from the USB), Mixed (Receiving from both the MIDI IN and the USB).

Input Ch (TRS) / Input Ch (USB) / Output Ch (TRS) / Output Ch (USB): For setting up the channel of the USB input and the MIDI messages' input and output, range from Omni - 1 - 16.

Clock Source: For choosing the source of the MIDI clock. The options are Internal (Only receiving from the internal clock), TRS Only (Only receiving the clock messages from the MIDI IN), "USB Only" (Only receiving the clock messages from the USB), "External" (Only receiving from the external clock), "Mixed" (Receiving clock messages from the internal clock, MIDI In and USB. If using different clock sources simultaneously).

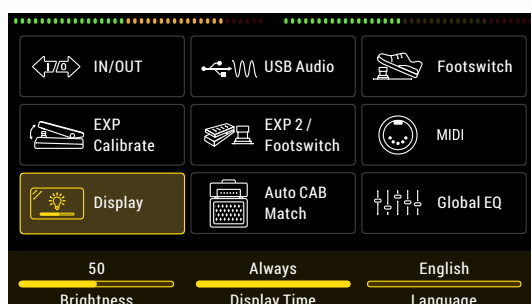
Notes:

1. When "TRS Only", "USB Only" or "External" is selected, the internal clock will not work and the Tap Tempo will not function
2. If using different clock sources simultaneously, then the last message type the Matribox II receives will cover previous ones

Clock Out (TRS) / Clock Out (USB): To control whether the MIDI OUT and USB will send out MIDI clock messages.

Note: When turned ON, this unit will negate all input signals; Additionally, when your Clock Source is set to "TRS Only" or "USB Only", this unit will not send out MIDI clock messages.

Display



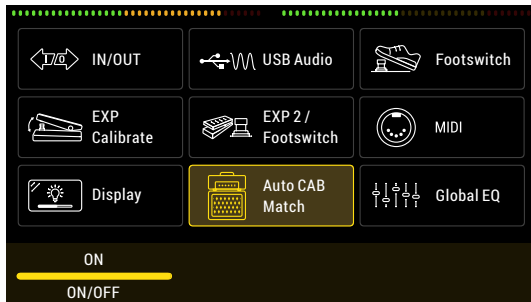
Brightness: For adjusting screen brightness.

Display Time: The time Matribox II needs to enter sleep mode.

Language: For choosing your system language.

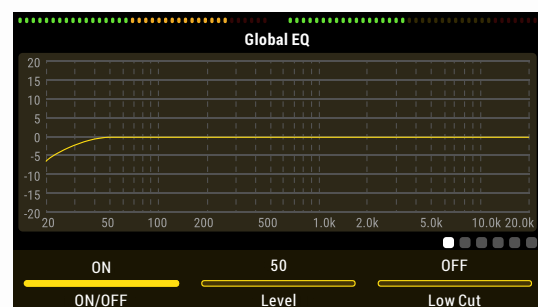
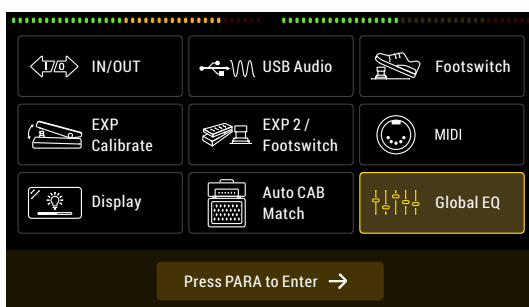
Global Settings

Auto CAB Match



When turned ON, the effects in the CAB module will correspondingly change with the effects in the AMP module.

Global EQ



Select this function and press the PARA knob to enter the global EQ edit screen.

ON/OFF: On/O global EQ.

Level: Adjust the master volume of the global equalizer. Range: 0 - 100.

Low Cut: High pass filter to cut o low frequency signals. Range: OFF - 20Hz - 20000Hz.

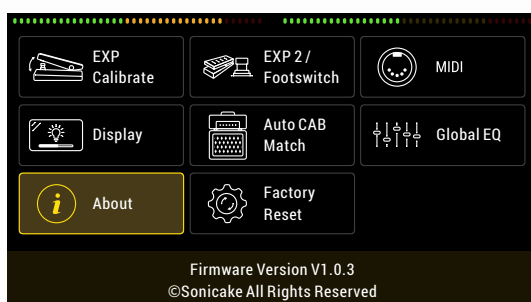
Bank 1-4 Frequency: To adjust the corresponding filter's frequency. Range: 20Hz - 20000Hz, Band 1-4's default frequencies are accordingly 100Hz, 500Hz, 1000Hz and 5000Hz.

Band 1-4 Q: Width. To adjust the width of the formant (slope of the filter), the larger the number, the steeper the slope. Range: 0.1 - 10.0, default is 0.7.

Band 1-4 Gain: Adjust the filter gain. Range: -20dB - +20dB, default is 0dB.

High Cut: Low pass filter to cut o high frequency signals. Range: 20Hz - 20000Hz - OFF.

About

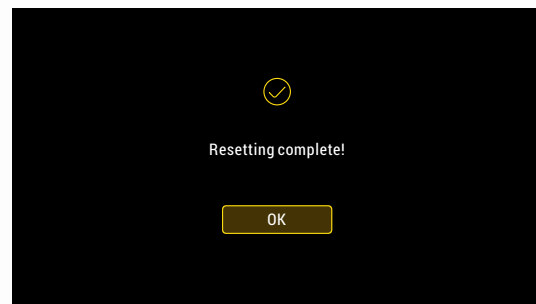
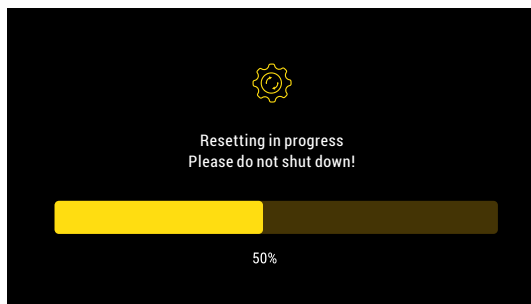
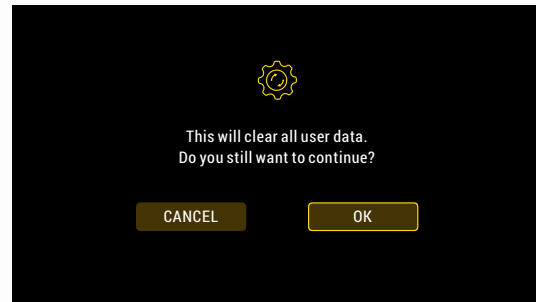
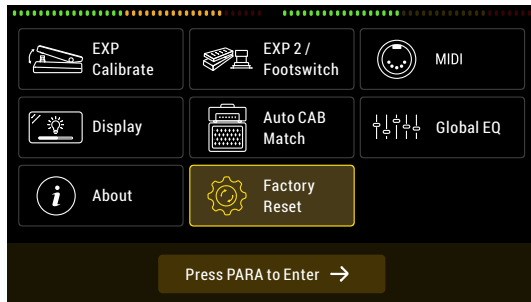


This menu is to check the firmware version.

Global Settings

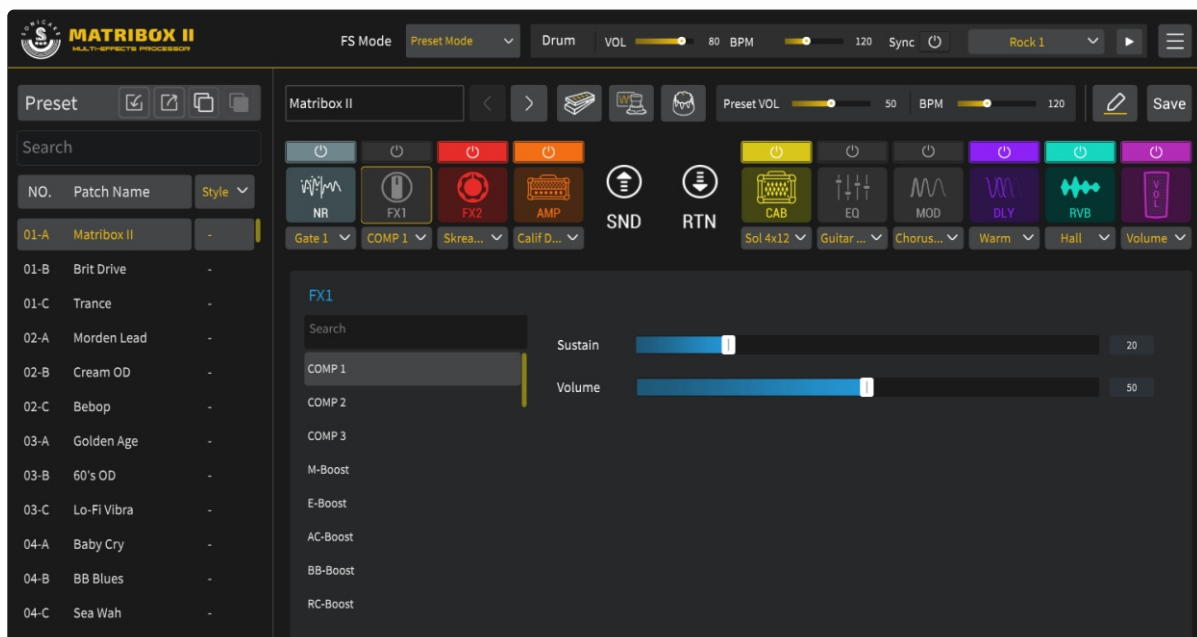
Factory Reset

Press the PARA knob to enter the "Factory Reset" menu, then turn the PARA knob to select and click "OK" to execute the reset factory settings, which will clear all user edited presets and personalized settings and reset the device to the factory state.



Compatible software

When you connect your Matribox II with the PC/Mac, you can use the free Matribox II software to manage multiple functions, including adjusting tones, import/export patches, firmware upgrade, loading 3rd party IRs and more. The Matribox II software supports both Windows and MacOS platforms. Please download the software at www.sonicake.com/products/matribox-ii.



EFFECT LIST

FX1 & FX2 modules

Name	Type	Description
COMP 1	Comp	Based on the legendary Ross™ Compressor*
COMP 2	Comp	Based on the Keeley® C4 4-knob compressor*
COMP 3	Comp	Flexible, fully adjustable compressor effect
M-Boost	Boost	Based on the legendary MXR® M133 Micro Amp* pedal
E-Boost	Boost	Based on famous Xotic® EP Booster* pedal
AC-Boost	Boost	Based on famous Xotic® AC Booster* pedal
BB-Boost	Boost	Based on famous Xotic® BB Preamp* pedal
RC-Boost	Boost	Based on famous Xotic® RC Booster* pedal
Fat Boost	Boost	A clean boost and pre-amp with a switchable low-cut filter and separate bass and treble controls
AC Woody	Boost	Designed for acoustic instruments, bringing you a more natural "woody" acoustic sound
AC Sim	Boost	Acoustic guitar simulator designed for guitars
Touch Wah	Boost	A wide range d envelope filter (a.k.a. touch wah). Control the wah sound by playing intensity
Auto Wah	Boost	Set the rate to make the wah pedal work regularly. Providing a variable auto wah effect for both guitars and basses
Filter	Filter	A 4-step auto filter machine for creating synth-like sounds
Octaver	Pitch	Provides polyphonic octave effect
Dual Melody	Pitch	Polyphonic pitch shifter/harmonizer
Pitch	Pitch	Polyphonic pitch shifter/harmonizer
Ring Mod	Special	A ring modulator for creating interesting inharmonic frequency spectra (like bells and chimes)
Tape Mod	Special	Vintage tape saturation simulator providing analog warmth and natural distortion

EFFECT LIST

FX1 & FX2 modules

Name	Type	Description
Voks Wah	Wah	Based on legendary VOX® V846* wah pedal
Cry Wah	Wah	Based on legendary Dunlop® CryBaby®* wah pedal
Rack Wah	Wah	Based on John Petrucci's rack wah settings
Bass Wah	Wah	Wah designed for basses
Skreamer	Overdrive	Based on legendary Ibanez® TS-808 Tube Screamer®* overdrive pedal
Skreamer 9	Overdrive	Based on legendary Ibanez® TS9 Tube Screamer®* overdrive pedal
Butter OD	Overdrive	Based on the legendary 2-knob yellow overdrive pedal
Warm OD	Overdrive	Based on famous Providence® SOV-2* overdrive pedal
Super OD	Overdrive	Based on a classic three-knob yellow pedal with asymmetrical overdrive effect circuit
Blues OD	Overdrive	Based on the legendary three-knob blue Blues-Style overdrive pedal
Full OD	Overdrive	Based on famous Fulltone® OCD* overdrive pedal
Breaker OD	Overdrive	Based on Marshall® BluesBreaker* overdrive pedal with exceptional transparent tone
Master OD	Overdrive	Based on Marshall® Drivemaster* overdrive pedal. The gain stage goes from clean to a well driven plexi kind of tone
Fuzz Cream	Fuzz	Based on legendary Electro-Harmonix® Big Muff Pi®* fuzz/distortion pedal
Red Fuzz	Fuzz	Based on legendary Dallas-Arbiter® Fuzz Face®* fuzz pedal
JP Dist	Distortion	Based on a classic orange three-knob distortion pedal
Dark Mouse	Distortion	Based on legendary ProCo™ The Rat* distortion (early LM308 OP-amp version)

EFFECT LIST

FX1 & FX2 modules

Name	Type	Description
Plexi Dist	Distortion	Based on the classic Marshall® Guv 10r* distortion pedal
Master Dist	Distortion	Based on the classic Marshall® Shred Master* distortion pedal
Dist Plus	Distortion	Based on MXR® M104 Distortion+* classic distortion pedal (early version)
Shark	Distortion	Based on MI Audio® Crunch Box®* distortion pedal
Bass OD	Bass Drive	A simple and effective distortion effect for guitars and basses
Bass Dist	Bass Drive	Based on a yellow bass overdrive with a large adjustable range

*The manufacturers and product names mentioned above are trademarks or registered trademarks of their respective owners. The trademarks were used merely to identify the sound character of the products.

Common Parameters
Comp
Sustain - Controls the effect amount
Volume - Controls the effect output volume
Attack - Controls how soon the compressor starts to process the signal
Release - Controls how soon the compressor starts to release the signal
Clipping - Controls the input sensitivity
Blend - Controls the wet/dry signal ratio
Tone - Controls the tone brightness
Boost/OD/Fuzz/Distortion
Gain/Sustain/Fuzz - Controls the gain amount
Volume - Controls the output volume
Tone/Filter - Controls the tone brightness
Bass/Middle/Treble - Controls the filter low/middle/high frequency range

EFFECT LIST

FX1 & FX2 modules

Common Parameters
Blend - Controls the wet/dry signal ratio
Acoustic
Shape - Controls the detailed effect character
Body - Controls the body resonance of the AC sim
Top - Controls the upper harmonics (high frequency response)
Volume - Controls the output volume
Mode - Selects from 4 different sound characters: Standard: Simulates the tonal characteristics of a standard acoustic guitar Jumbo: Simulates the tonal characteristics of a jumbo acoustic guitar Enhanced: Simulates the tonal characteristics of an acoustic guitar with enhanced attack Piezo: Simulates the sound of a piezo pickup
Filter
Volume - Controls the output volume
Sense - Controls the sensitivity
Range - Controls the effect range
Q - Controls the filter Q
Mix/Blend - Controls the wet/dry signal ratio
Depth - Controls the effect depth
Rate - Controls the effect speed
Low - Controls the filter low frequency range
High - Controls the filter high frequency range
Sync - Switches preset BPM sync on/off
Step 1-4 - Controls filter center frequency of different filters (steps)
Pitch
Low Oct - Controls the lower octave volume
High Oct - Controls the higher octave volume

EFFECT LIST

FX1 & FX2 modules

Common Parameters
Dry - Controls the dry signal level
Wet - Controls the wet signal ratio
Hi Pitch - Controls the higher pitch by half notes or one notes
Low Pitch - Controls the lower pitch by half notes or one notes
Hi Vol - Controls the high pitch volume
Low Vol - Controls the low pitch volume
Special
Mix - Controls the wet/dry signal ratio
Freq - Controls the effect frequency
Fine - Fine tune the effect frequency by 1Hz
Tone - Controls the tone brightness
Volume - Controls the effect output volume
Saturation - Controls the effect gain
High Cut - Cuts the effect high frequency signal
Wah
Range - Controls the effect range
Q - Controls the filter Q
Volume - Controls the effect output volume
Position - When using the EXP pedal as a wah, assign the Position parameter to the EXP pedal, and then turn on and press the EXP pedal to get the effect

EFFECT LIST

AMP modules

Name	Type	Description
TWD Deluxe	Clean	Based on Fender® Tweed Deluxe*
B-Man N	Clean	Based on Fender® 59 Bassman®* (Normal channel)
B-Man Bri	Drive	Based on Fender® 59 Bassman®* (Bright channel)
Dark Double	Clean	Based on Fender® 65 Twin Reverb®*
Dark Deluxe	Clean	Based on Fender® 59 Blackface Deluxe Reverb®* (Normal channel)
Supero 2 CL	Clean	Based on the Supro®Dual-Tone 1624T* (CH1 clean tone)
Supero 2 OD	Drive	Based on the Supro®Dual-Tone 1624T* (CH1+2, dirty tone)
Voks 15TB	Clean	Based on vintage VOX® AC15* (TB channel)
Voks 30N	Clean	Based on VOX® AC30HW* (Normal channel)
Voks 30TB	Drive	Based on VOX® AC30HW* (TB channel)
Jazz 120	Clean	Based on the legendary Jazz Chorus solid state combo
Superb CL	Clean	Based Matchless™ Chieftain 212 combo* (clean tone)
Superb OD	Drive	Based Matchless™ Chieftain 212 combo* (overdrive tone)
Calif Star CL	Clean	Based on Mesa/Boogie® Lone Star™* (CH1)
Calif Star OD	Drive	Based on Mesa/Boogie® Lone Star™* (CH2)
Bog SV CL	Clean	Based on Bogner® Shiva* (20th Anniversary version, CH1)
Bog SV OD	Drive	Based on Bogner® Shiva* (20th Anniversary version, CH2)
Bog XT Blue	Drive	Based on Bogner® XTC* blue channel
Bog XT Red	Hi Gain	The Bogner® XTC* red channel is known for its fiery high gain distortion and the main timbre

EFFECT LIST

AMP modules

Name	Type	Description
Doctor CL	Clean	Based on Dr. Z® Maz 38 Sr.* combo (drive sound)
Doctor OD	Drive	Based on Grindrod® Pendragon PG20C* (Normal channel, bright off)
Dragon CL	Clean	Based on Grindrod® Pendragon PG20C* (Normal channel, bright on)
Dragon CL B	Clean	Based on Grindrod® Pendragon PG20C* (Normal channel, bright on)
Dragon OD	Drive	Based on Grindrod® Pendragon PG20C* (Drive channel)
Sol 100 CL	Clean	Based on Soldano® SLO100* (clean channel)
Sol 100 OD	Drive	Based on Soldano® SLO100* (crunch channel)
Sol 100 LD	Hi Gain	Based on Soldano® SLO100* (Overdrive channel)
Brit 45	Drive	Based on Marshall® JTM45* (Normal channel)
Brit 45+	Drive	Based on Marshall® JTM45* (High Treble channel)
Brit 45JP	Drive	Based on Marshall® JTM45* with "Jump" connection
Brit 50	Drive	Based on Marshall® JTM50* (Normal channel)
Brit 50+	Drive	Based on Marshall® JTM50* (High Treble channel)
Brit 50JP	Drive	Based on Marshall® JTM50* with "Jump" connection
Brit SLP	Drive	Based on the legendary Marshall® SLP*
Brit 800	Drive	Based on the legendary Marshall® JCM800*
Brit 900	Hi Gain	Based on the legendary Marshall® JCM900*
Flyman 1	Drive	Based on the famous "Brown Eye" UK-style boutique amp head (BE channel)
Flyman 2	Drive	
Flyman+ 1	Hi Gain	Based on the famous "Brown Eye" UK-style boutique amp head (HBE channel)
Flyman+ 2	Hi Gain	

EFFECT LIST

AMP modules

Name	Type	Description
Calif IIC+ 1	Drive	Based on Mesa/Boogie® Mark II C+™* (Lead channel)
Calif IIC+ 2		
Calif IIC+ 3		
Calif IV LD 1	Hi Gain	Based on Mesa/Boogie® Mark IV™* (Lead channel)
Calif IV LD 2		Based on Mesa/Boogie® Mark IV™* (Lead 2 channel)
Calif IV LD 3		Based on Mesa/Boogie® Mark IV™* (Lead 3 channel)
Calif Dual V	Hi Gain	Based on Mesa/Boogie® Dual Rectifier®* (Vintage mode)
Calif Dual M	Hi Gain	Based on Mesa/Boogie® Dual Rectifier®* (Modern mode)
Tanger R100	Hi Gain	Based on Orange® Rockerverb 100™* (Dirty channel)
Halen 51	Hi Gain	Based on Peavey® 5150®* (LEAD channel)
Eng 120	Hi Gain	Based on famous ENGL® Savage 120 E610*
Eng 120+		
Dizzy VH	Hi Gain	Based on the 3rd channel of the famous Diezel® VH4*
Dizzy VH S		Based on the 3rd channel of the famous Diezel® VH4* (silver panel version)
Dizzy VH+		Based on the 4th channel of the famous Diezel® VH4*
Dizzy VH+ S		Based on the 4th channel of the famous Diezel® VH4* (silver panel version)
A BassVT	Bass	Based on Ampeg® SVT* bass amp
Voks Bass	Bass	Based on vintage VOX® AC-100* bass amp
Calif Bass	Bass	Based on Mesa/Boogie® Bass 400* amp
A BassFT	Bass	Based on Ampeg® B-15* Flip Top bass amp

EFFECT LIST

AMP modules

Name	Type	Description
F-2Bass	Bass	Based on Alembic™ F-2B* preamp
AC Preamp	Acoustic	Based on AER® Colourizer 2* acoustic preamp
AC Preamp 2		

*The manufacturers and product names mentioned above are trademarks or registered trademarks of their respective owners. The trademarks were used merely to identify the sound character of the products.

Common Parameters
Gain - Controls the amp pre gain
Tone - Controls the tone brightness
Tone Cut - Counterclockwise controls the tone brightness
Volume - Controls the amp output volume
Presence - Controls the amp presence
Bass/Middle/Treble - Controls the amp low/mid/high frequency response
Midrange - Selects mid frequency ranges
Bright - Switches extra brightness on/off
Char - Selects from 2 gain ranges (Cool/Hot)
Input - Controls the pre amp input level
Balance - Controls the tone control balance
EQ Freq - Controls the EQ center frequency
EQ Q - Controls the EQ bandwidth
EQ Gain - Controls the EQ boost/cut amount

NR modules

Name	Description
Gate 1	Based on famous ISP®Decimator™* noise gate pedal
Gate 2	Flexible noise gate with attack and release control

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EFFECT LIST

NR modules

Common Parameters
Threshold - Controls the noise gate threshold
Attack - Controls how fast the noise gate start to process signal
Release - Controls the noise gate release time when signal level reaches

CAB modules

Name	Description
Supero 1x6	Supro®* 1x6" cabinet with oval speaker
Chap 1x8	Vintage Fender® Champ* 1x8" cabinet
Prince 1x10	Vintage Fender® Princeton* 1x10" cabinet
TWD 2x10	A custom Fender® Tweed* 2x10" cabinet
TWD LUX 1x12	Fender® Tweed Deluxe* 1x12" cabinet
Dark LUX 1x12	Vintage Fender® Deluxe* 1x12" cabinet
Twin Verb 2x12	Vintage Fender® '65 Twin Reverb* 2x12" cabinet
Custom 2x12	Custom modified Fender®* 2x12" cabinet
B-Man 2x10	Vintage Fender® "Piggyback" Bassman®* 2x12" cabinet
B-Man 4x10	Fender® '59 Bassman®* 4x10" cabinet
Jazz 2x12	Legendary "Jazz Chorus" 2x12" cabinet
Brit 1x12	Marshall®* 1x12" cabinet
Brit GN 2x12	Marshall® 2550* 2x12" cabinet
Brit LD 4x12	Marshall® 1960AV* 4x12" cabinet
Brit TD 4x12	Marshall® Basketweave* 4x12" cabinet
Brit MD 4x12	Custom modified Marshall®* 4x12" cabinet
Brit GN 4x12	Vintage Marshall® 4x12" cabinet with Celestion® Greenback®* speakers

EFFECT LIST

CAB modules

Name	Description
Brit 75 4x12	Marshall®* 4x12" cabinet with Celestion® G12T-75* speakers
Brit BK 4x12	1968 Marshall®* 4x12" cabinet
Voks 1x12	Vintage VOX® AC15* 1x12" cabinet
Voks 2x12	Vintage VOX® AC30* 2x12" cabinet
Bog SV 1x12	Bogner® Shiva* 1x12" cabinet
Chief 2x12	Matchless® Chieftain* 2x12" cabinet
Calif Dual 4x12	Mesa/Boogie® Rectifier®* 4x12" cabinet
Calif Star 1x12	Mesa/Boogie® Lonestar* 1x12" cabinet
Calif Star 2x12	Mesa/Boogie® Lonestar* 2x12" cabinet
Calif 1x12	1980 s Mesa/Boogie®* 1x12" cabinet
Supero 2x12	Supro® 1624T* 2x12" cabinet
Superb 2x12	Matchless®* 2x12" cabinet
Blue 2x12	A custom 2x12" cabinet with Celestion® Alnico Blue* speakers
Halen 4x12	Peavey® 6505* 4x12" cabinet
Bog 4x12	Bogner®* 4x12" cabinet
Eng 4x12	ENGL®* 4x12" cabinet
Bog Ub 4x12	Bogner® Uberkab* 4x12" cabinet
Sol 4x12	Soldano®* 4x12" cabinet
Tanger 4x12	Orange® PPC412* 4x12" cabinet
Watt 4x12	Vintage Hiwatt® SE4123* 4x12" cabinet
WAM 4x12	Vintage WEM®* 4x12" cabinet
Humble 4x12	Dumble®* 4x12" cabinet
Dizzy 4x12	Diezel®* 4x12" cabinet

EFFECT LIST

CAB modules

Name	Description
Calif 4x12	Mesa/Boogie® Road King®* 4x12" cabinet
DV 1x15	David Eden®* 1x15" bass cabinet
DV 4x10	David Eden®* 4x10" bass cabinet
Work 1x15	SWR®* 1x15" bass cabinet
Work 4x10	SWR® Workingman's* 4x10" bass cabinet
Calif 2x10	Mesa/Boogie®* 2x10" bass cabinet
Mak 2x10	Mark Bass®* 2x10" bass cabinet
A Bass 1x15	Ampeg® PF-115HE* 1x15" bass cabinet
A Bass 4x10	Ampeg® SVT-410HE* 4x10" bass cabinet
A Bass 8x10	Ampeg SVT-810E* 8x10" bass cabinet
Hart 4x12	Hartke®* 4x12" bass cabinet
D 1	Dreadnought guitar simulation 1
D 2	Dreadnought guitar simulation 2
OM	Simulates an OM type acoustic guitar
Jumbo	Simulates a jumbo acoustic guitar
Bird	Simulates the iconic "H-Bird" acoustic guitar
GA	Simulates a GA type acoustic guitar
Classical AC	Simulates a classical guitar
Mandolin	Simulates a mandolin
Fretless Bass	Simulates a fretless acoustic bass
Double Bass	Simulates a double bass
User IR 1~15	User IR, IR file format is 44100Hz, 1024 sampling points

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EFFECT LIST

CAB modules

Common Parameters
Volume - Controls the output volume
Low Cut - Cuts the low frequency
High Cut - Cuts the high frequency

EQ modules

Name	Description
Guitar EQ 1	Equalizer designed for guitars
Guitar EQ 2	
Bass EQ 1	Equalizer designed for basses
Bass EQ 2	
Calif EQ	Based on the 5-band EQ module on Mesa/Boogie®* amps

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Common Parameters
XX Hz - Boosts/cuts the frequency band
VOL - Controls the output volume

MOD modules

Name	Type	Description
Chorus-E	Chorus	Based on the legendary huge ensemble chorus pedal born in late 1970s (chorus mode)
D-Chorus	Chorus	Based on a legendary 4-button purple stereo chorus pedal
Flanger	Flanger	Classic flanger effect, producing rich and natural flanger tone
Flanger N	Flanger	A flanger with negative feedback
Trem Jet	Flanger	Combines flanger and tremolo in one

EFFECT LIST

MOD modules

Name	Type	Description
Bass Jet	Flanger	Classic flanging effect tuned for basses
Vibrato	Vibrato	A classic vibrato effect with wide adjustable range
BBD Roto	Vibrato	Based on a BBD-based blue vibrato pedal
Phaser	Phaser	Based on legendary MXR® M101 Phase 90*
BBD Phaser	Phaser	Based on a BBD-based green phase pedal
Phaser ST	Phaser	Based on Electro-Harmonix® Small Stone* pedal
Pan Phaser	Phaser	A special, subtle phaser combines tremolo/pan variations
Vibe	Phaser	Based on the legendary Voodoo Lab® Micro Vibe*
U-Vibe	Phaser	Based on the classic Shin-Ei® Uni-Vibe*
Tremolo	Tremolo	Based on legendary Demeter® TRM-1 Tremulator*, offering classical opto tremolo sound
Sine Trem	Tremolo	Sine tremolo waveforms and super wide tonal range.
Triangle Trem	Tremolo	Triangle tremolo waveforms and super wide tonal range
Bias Trem	Tremolo	Bias tremolo waveforms and super wide tonal range
Detune	Pitch	This is a detuning effect that combines a slightly shifted signal with the original signal to create a chorus-like tone

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Common Parameters
Depth - Controls the effect depth
Rate - Controls the effect speed
Tone - Controls the tone brightness
Volume - Controls the effect output volume
Detune - Controls the detune amounts by 1 cent

EFFECT LIST

MOD modules

Common Parameters
Wet - Controls the wet signal level
Dry - Controls the dry signal level
Pre Delay - Controls the pre delay time
Feedback - Controls the feedback amount
Bias - Controls the waveform offset amount
Sync - Switches preset BPM sync on/off

DLY modules

Name	Description
Warm	Producing warm delay sound with analog feel
Pure	Produce pure, precised delay sound
Mag	Simulates solid-state tape echo sound
Tube	Simulates tube-driven tape echo sound
BBD	A stereo analog delay model that captures the sound of a BBD based analog delay machine that is warm, smooth, rounded due to the limitation of BBD chips.
Ping Pong	A ping-pong delay producing stereo feedback bounces back and forth between left and right channels
Slapback	Simulates the classic slapback echo effect
Sweep	Producing a delay effect with sweeping filter modulated repeats
Ring	Producing a delay effect with ring modulated repeats
Multi Tape	A multi tap delay that simulates a huge 4-head tape echo machine

EFFECT LIST

DLY modules

Name	Description
Sweet	Producing warm, natural analog delay sound
999 Echo	Based on Maxon® AD999 Analog Delay*
Rack	Reproduces the sound of a vintage 1980 s rack-mount delay machine with slightly sample-reduced feedback
Lo-Fi	Producing a delay effect with lo-fi repeats
Reverse	Producing a special delay effect with reversed feedback

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Common Parameters
Mix - Controls the wet/dry signal ratio
Feedback - Controls the feedback amount
Time - Controls the delay time
Time R% - Controls the delay time of right channel (time ratio of left channel)
Spread - Controls the effect stereo width
Level - Controls the effect output level
Sweep Depth - Controls the sweeping depth
Sweep Rate - Controls the sweeping speed
Freq - Controls the mod frequency
Tone - Controls the effect tone brightness
Mod - Controls the modulation amount
Crush - Controls the effect sampling rate
Bit - Controls the effect sampling accuracy
Sync - Switches Tap Tempo sync on/off
Trail - Switched effect trail on/off when the effect is bypassed

EFFECT LIST

RVB modules

Name	Description
Studio	Simulates the spaciousness of a recording studio
Room	Simulates the spaciousness of a room
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
Spring	Simulates the sound character produced by a vintage spring reverberator
Sky	Special-tuned reverb effect with lush, bright decays
Sea	Special-tuned reverb effect with huge, deep decays
Mod Reverb	Produces a modulated reverb effect that is lush and sweet
Shimmer	Produce a rich, shimmering reverb effect

Common Parameters
Mix - Controls the wet/dry signal ratio
Pre Delay - Controls the pre delay time
Decay - Controls the reverb decay time
Low Damp - Controls the low cut amount
Hi Damp - Controls the high cut amount
Mod - Controls the modulation amount
Tone - Controls the effect tone brightness
Lo End - Controls the effect low frequency amount
Hi End - Controls the effect high frequency amount
Trail - Switches effect trail on/off

EFFECT LIST

SND modules

Name	Description
SND	The FX LOOP send node
Common Parameters	
Send level - Adjust the output level of the FX LOOP SEND jack	

RTN modules

Name	Description
RTN	The FX LOOP return node
Common Parameters	
Return level - Adjust the input level of the FX LOOP RETURN jack	
Mix - Adjust the ratio of the return level to the level from the previous module/node in the effect chain, and when the mix is maximum, the effect chain and the effect loop are completely in series	

VOL modules

Name	Description
Volume	Pure volume control

MIDI Control Information List

CC#	Value Range	Explain
0	0-1	BANK MSB: 01 A~42 C: CC0=0, PC=0-125 43 A~66 C: CC0=1, PC=0-71
7	0-100	Preset Volume
11	0-100	EXP 1
13	0-127	EXP 1 A/B: 0-63: A 64-127: B
16	0-100	Quick Access Para 1
17	0-127	Quick Access Knob 1 parameter adjustment: 0-63: Turn down by 1 step 64-127: Turn up by 1 step
18	0-100	Quick Access Knob 2
19	0-127	Quick Access Knob 2 parameter adjustment: 0-63: Turn down by 1 step 64-127: Turn up by 1 step
20	0-100	Quick Access Knob 3
21	0-127	Quick Access Knob 3 parameter adjustment: 0-63: Turn down by 1 step 64-127: Turn up by 1 step
22	0-127	BANK - (initial mode)
23	0-127	BANK + (initial mode)
24	0-127	Preset -
25	0-127	Preset +
26	0-127	BANK - (wait mode)
27	0-127	BANK +(wait mode)
28	0-127	BANK (wait mode)
29	0-127	Footswitch Modes: 0-63: Preset Mode 64-127: Stomp Mode

MIDI Control Information List

CC#	Value Range	Explain
48	0-127	FX 1 Module on/off: 0-63: off 64-127: on
49	0-127	FX 2 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	MOD Module on/off: 0-63: off 64-127: on
55	0-127	DLY Module on/off: 0-63: off 64-127: on
56	0-127	RVB Module on/off: 0-63: off 64-127: on
57	0-127	VOL Module on/off: 0-63: off 64-127: on
58	0-127	Tuner on/off: 0-63: off 64-127: on
59	0-127	Looper on/off: 0-63: off 64-127: on

MIDI Control Information List

CC#	Value Range	Explain
60	0-127	Looper Record
61	0-127	Looper Auto Record
62	0-127	Looper Play/Stop 0-63: Stop 64-127: Play
63	0-127	Looper Undo/Redo
64	0-127	Delete Loop
65	0-127	Looper Recording Volume
66	0-100	Looper Playback Volume
67	0-100	Looper Placement 0-63 Bar 64-127 Font
68	0-127	Preset BPM MSB, Used with CC69
69	0-127	CC68=0, CC69=40-127: 40BPM-127BPM CC68=1, CC69=0-122: 128BPM-250BPM
70	0-127	Tap Tempo
71	0-127	CTRL 1
72	0-127	CTRL 2
73	0-1	CTRL 3
92	0-100	Drum Menu on/off: 0-63: off 64-127: on

MIDI Control Information List

CC#	Value Range	Explain
93	0-127	Drum Play/Stop 0-63: Stop 64-127: Play
94	0-99	Drum Rhythm
95	0-100	Drum Volume

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.
- If the noise is coming from your instrument, try using the noise reduction module to reduce 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, Matribox II may have abnormal noise.

Problems With Expression Pedal

- Check your expression pedal on/off settings.
- Try calibrating the pedal.

Specifications

Technical Specifications

A/D/A Converter: 24-bit high performance audio

Sampling Frequency: 44.1 kHz

SNR: 110dB

Maximum Simultaneous Effects: 10

Preset Memory: 198 Presets Slots, 99 Factory Presets

Looper: Maximum 90 seconds of record time

Drum Machine: 100 Patterns

MIDI (IN/OUT): 1/8" TRS MIDI jacks

Analog Input Connections

Guitar Input: 1/4" Unbalanced (TS), 4.7M Ohms (A.GT),
1M Ohms (E.GT), 10k Ohms (Line)

Return Input: 1/4" Unbalanced (TS), 100k Ohms

Aux Input: 1/8" Stereo (TRS), 10k Ohms

Analog Output Connections

L/R Outputs: 1/4" TRS, 1k Ohms

Send Output: 1/4" Unbalanced (TS), 1k Ohms

Headphone Output: 1/8" Stereo (TRS), 22 Ohms

Digital Connections

USB Port: USB 2.0 Type-C Port

USB Recording Specification

Sample Rate: 44.1 kHz

Bit Depth: Supports 16-bit or 24-bit

Size and Weight

Dimensions: 276mm (W) x 164mm (D) x 55.8mm (H)

Unit Weight: 1.54kg

Power

Power Requirements: DC 9V center negative, 1000mA