

MOOER

META FX
X ALGORITHM PLATFORM

User Manual

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Precautions

Please read carefully before proceeding

Power Supply

Please use a power adapter connected to a correct AC outlet. Use only a 9V DC 300mA adapter (center negative). Failure to do so may cause equipment damage, fire, or other hazards. Unplug the power supply when not in use or during electrical storms.

Connections

Always turn off the power to this and all other equipment before connecting or disconnecting to prevent malfunction and speaker damage. Disconnect all cables and power leads before moving the unit.

Environment

To avoid deformation, discoloration, or other serious damage, do not expose this unit to the following conditions:

- Direct sunlight
- Magnetic fields
- Excessive dust or dirt
- Heat sources
- High humidity or moisture
- High vibration or physical shock

Interference

Operate this unit away from radios and televisions to prevent electromagnetic interference.

Cleaning

Clean only with a soft, dry cloth or a slightly damp cloth. Do not use abrasive powders, alcohol, paint thinners, waxes, solvents, detergents, or chemical impregnated wipes.

Handling

Do not apply excessive force to the switches or controls.

Do not let paper, metal, or other objects fall into the unit.

Do not drop the unit or subject it to heavy impact or pressure.

Product Features

- **Multi-Engine Experimental Platform:** A versatile architecture allowing users to switch between multiple firmware engines to explore a vast sonic landscape.
- **True Stereo I/O:** Fully supports stereo signal chains for modern guitarists, synthesizers, and studio setups.
- **100 Preset Slots:** Effortlessly store and recall your favorite tones.
- **40+ Pro-Grade Effects:** Over 40 Modulation, Delay, and Reverb algorithms with continuous firmware updates to expand your library.
- **Dedicated Editor Software:** Efficiently manage presets, backups, and firmware updates via the proprietary computer app.
- **1.28-inch Circular Touchscreen:** Blends sleek aesthetics with an intuitive, interactive user interface.
- **Integrated Headphone Out:** Dedicated 3.5mm jack for silent practice.
- **Performance-Ready Footswitches:** Seamlessly toggle effects or switch presets during live performances.
- **Intelligent Interface Layout:** Parameters respond in real-time, providing immediate tactile control over your sound.

Panel Description



- 01 USB-C Port**
Connect to a PC/Mac for preset management, firmware updates, backup/restore, and factory resets.
- 02 9V DC IN**
Connect a 9V DC (center negative) power supply with at least 300mA. We recommend using an isolated power supply to avoid unwanted crosstalk or noise.
- 03 PHONES**
3.5mm TRS stereo headphone output.
- 04 LEVEL/VALUE**
Adjusts the master output level of the preset. Long-press the EDIT, TYPE, or SAVE buttons while rotating this knob to quickly adjust primary parameters on the home screen.
- 05 SELECT/MENU**
Rotate to scroll through presets. Press to enter the MENU. Long-press the TYPE button and rotate this knob to quickly switch between effect models.
- 06 Circular Screen**
Displays all parameters and status. Supports touch interaction for specific functions.
- 07 EDIT**
Press to enter the Parameter Edit interface. Long-press and rotate VALUE to quickly adjust the first parameter shown on the circular screen.

08

TYPE

Press to enter the Effect Model selection screen. Long-press and rotate VALUE to adjust the second parameter. Long-press and rotate SELECT to change the effect model.

09

SAVE

Press to save current settings to a preset slot. Long-press and rotate VALUE to adjust the third parameter.

10

Footswitch A:Effect Bypass/Engage.

Footswitch B:Function depends on firmware:

REVERB:INFINITE (Sustain) function.

DELAY/MOD:TAP TEMPO (Beat sync).

Combined Operation:Press both A and B simultaneously to enter Preset Selection mode. Short press A or B to scroll up/down. The mode exits automatically after a timeout.

11

OUTPUT

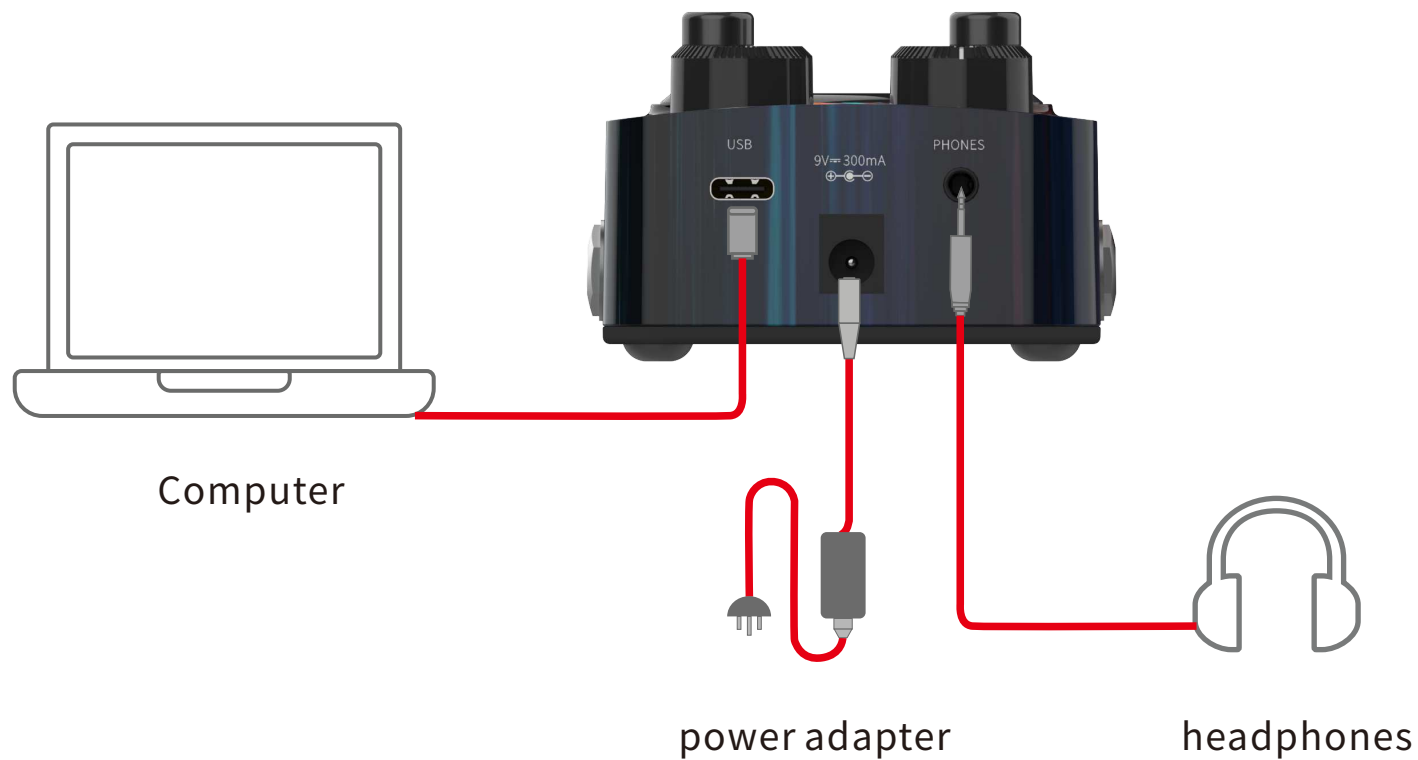
Dual 6.35mm TS jacks. Left (Top) for Mono; Left+Right (Bottom) for Stereo.

12

INPUT

Dual 6.35mm TS jacks. Left (Top) for Mono; Left+Right (Bottom) for Stereo.

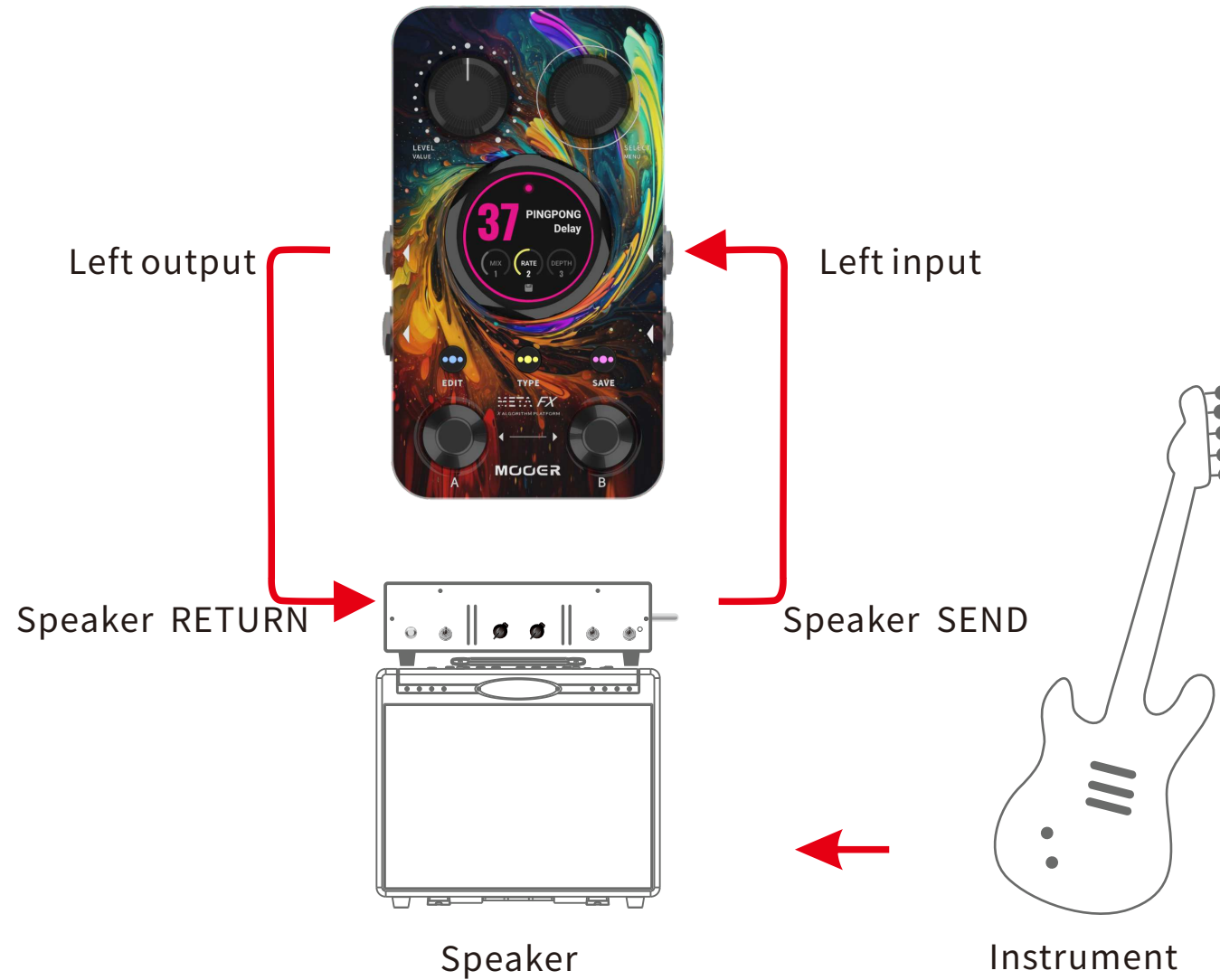
Device Connectivity



Mono Connection



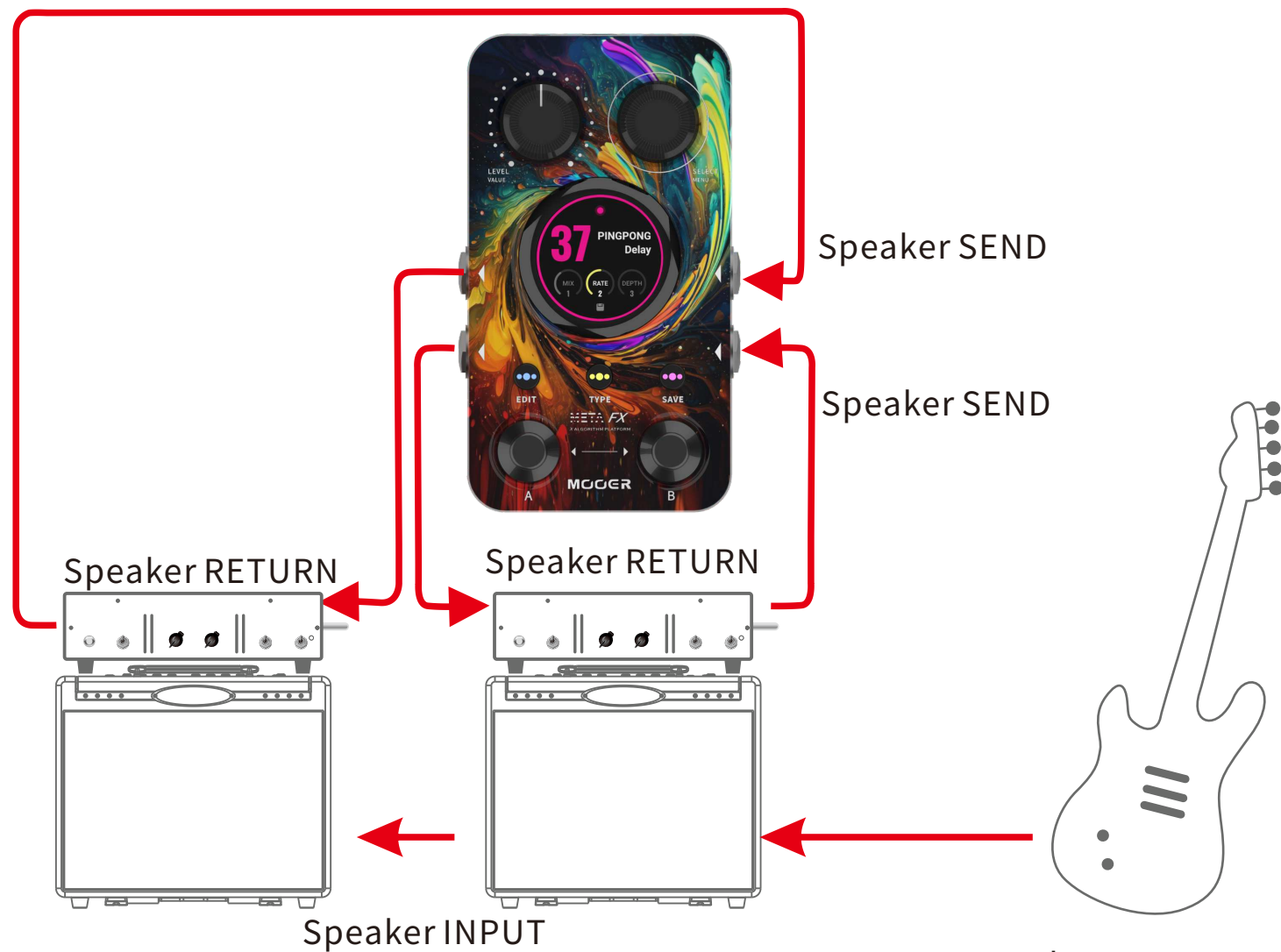
Mono Connection (Amp FX Loop)



Stereo Connection



Stereo Connection (Amp FX Loop)



Note: Connectivity can be configured for Mono or Stereo based on user requirements.

Effect Descriptions

META FX Reverb Features

- 10+ high-quality stereo reverb models with room for future expansion.
- Covers everything from traditional rooms to creative ambient textures.
- Includes classics like Room, Hall, Plate, and Spring.
- **Innovative algorithms:** Aethertide, Crush, Shimmer, and Dream for ambient soundscapes.
- 20+ factory presets covering a wide range of modulation styles.
- **Kill Dry:** Instantly removes the direct signal for 100% wet ambient textures.
- **Trail:** Allows reverb tails to decay naturally after the effect is bypassed.
- **INFINITE:** Freeze function to sustain reverb tails for drones or transitions.

Reverb Models

- **Room:** Warm, natural room ambience with short, gentle decay.
- **Hall:** Large, expansive hall reverb with long diffusion and decay.
- **Church:** Majestic, cathedral-style spacious ambience.
- **Cave:** Deep, dark reverb with long atmospheric reflections.
- **Plate:** Classic bright plate reverb with clear, articulate tone.
- **Spring:** Vintage spring reverb with signature drip character.
- **Mod:** Reverb blended with chorus for rich, evolving depth.
- **Studio:** Professional, studio-grade natural reverb.
- **Aethertide:** Airy, ethereal ambience with floating texture.
- **Warp:** Unique time-bending reverb with surreal movement.
- **Shake:** Dynamic, trembling reverb with motion and sway.
- **Crush:** Experimental reverb with distorted, broken textures.
- **Shimmer:** Luminous high-frequency reverb with sparkling overtones.
- **Dream:** Lush, dreamy immersive reverb for cinematic space.

META FX Delay Features

- 10+ high-quality stereo delay models with room for future expansion.
- Includes Digital, Analog, Tape, and Dynamic classics.
- **Avant-garde models:** Galaxy, PingPong, Crystal, Rainbow, etc.
- 20+ factory presets covering a wide range of modulation styles.
- **Kill Dry:** Isolates delay repeats for parallel routing.
- **Trail:** Maintains echoes after bypassing.
- **Tap Tempo:** Real-time footswitch control for Time/Sub-division sync.

Delay Models

- **Digital:** Clean, precise digital delay with crystal-clear repeats.
- **Analog:** Warm, smooth analog-style delay with rounded echoes.
- **Tape:** Vintage tape delay character with soft, natural decay.
- **Dynamic:** Delay that reacts to your playing dynamics.
- **Liquid:** Fluid, phased delay with a drifting, liquid feel.
- **Mod:** Modulated delay with lush width and rich ambience.
- **Mod-Verse:** Subtle modulation for gentle motion and depth.
- **Galaxy:** Smooth, slow-rising echo textures.
- **Dual Delay:** Two independent delays for layered, complex repeats.
- **Ping Pong:** Left-right bouncing echoes for wide stereo movement.
- **Crystal:** Octave-enhanced shimmering delay repeats.
- **Rainbow:** Pitch-shifting repeats that rise with each echo.
- **Low-Bit:** Lo-fi, down-sampled experimental delay tone.
- **Fuzzy:** Fuzz-infused repeats for aggressive, chaotic ambience.

META FX Mod Features

- Comprehensive stereo modulation modules with room for future expansion.
- Combines Chorus, Phaser, Flanger, Rotary, and more for multi-dimensional processing.
- 20+ factory presets covering a wide range of modulation styles.
- **Tap Tempo:** Sync modulation rate to the song BPM via footswitch.

MOD Models

- **Chorus:** Multi-voice pitch and delay layering that widens the sound and adds fullness.
- **Phaser:** Flowing multi-stage filtering that creates smooth, moving frequency sweeps.
- **Flanger:** Short-delay feedback modulation with bold, metallic sweep character.
- **Vibrato:** Cyclical pitch movement that adds expressive wobble and emotion.
- **Tremolo:** Rhythm-driven volume pulsing for strong groove and motion.
- **Rotary:** Realistic rotating speaker swirl with spacious Doppler movement.
- **60Vibe:** Warm, psychedelic vintage-style modulation with classic 60s character.
- **Detune:** Subtle pitch offset layering for wider, thicker tone.
- **Ring:** Experimental non-harmonic modulation for futuristic textures.
- **Filter:** Dynamic tone shaping to control brightness and movement.
- **Octave:** Adds upper/lower octaves to reinforce presence and low-end power.
- **Pitch Shift:** Real-time pitch change for creative interval effects.
- **Harmony:** Automatically generates harmonized notes for richer melodies.
- **Slow Engine:** Smooth volume swells for ambient, blooming sustain.
- **Lofi Machine:** Gritty tone degradation for characterful lo-fi textures.

Operation Guide

1. Basic Operation

(1) Connect a 9V power supply to power on. It is recommended to use the original power adapter to avoid unwanted interference or noise.



Start animation

(2) Select a storage slot

- Rotate the SELECT knob to find an empty slot.
- The main screen will display EMPTY for unused locations.



Rotate



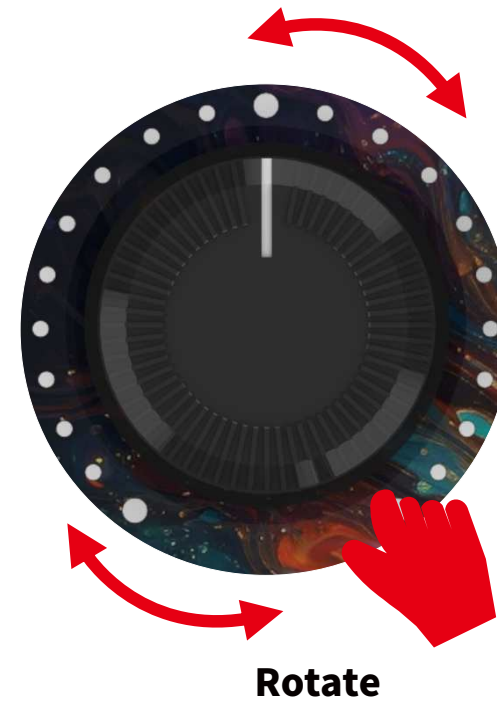
(3) Choose an effect type

- Tap the effect name on the main screen or press TYPE to enter the effect selection menu. EMPTY means no effect loaded.
- Rotate the SELECT knob to choose an effect type; the effect icon and ring light will illuminate accordingly.



(4) Adjust effect parameters

- Tap any of the three parameters under the main screen, or press EDIT to enter the parameter menu.
- Tap the parameter you want to edit or select it with SELECT, then adjust it using the VALUE knob.

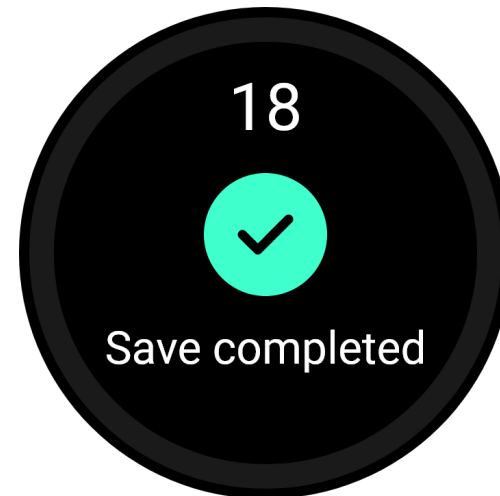


(5) Save the preset

- Press SAVE to store the current preset.



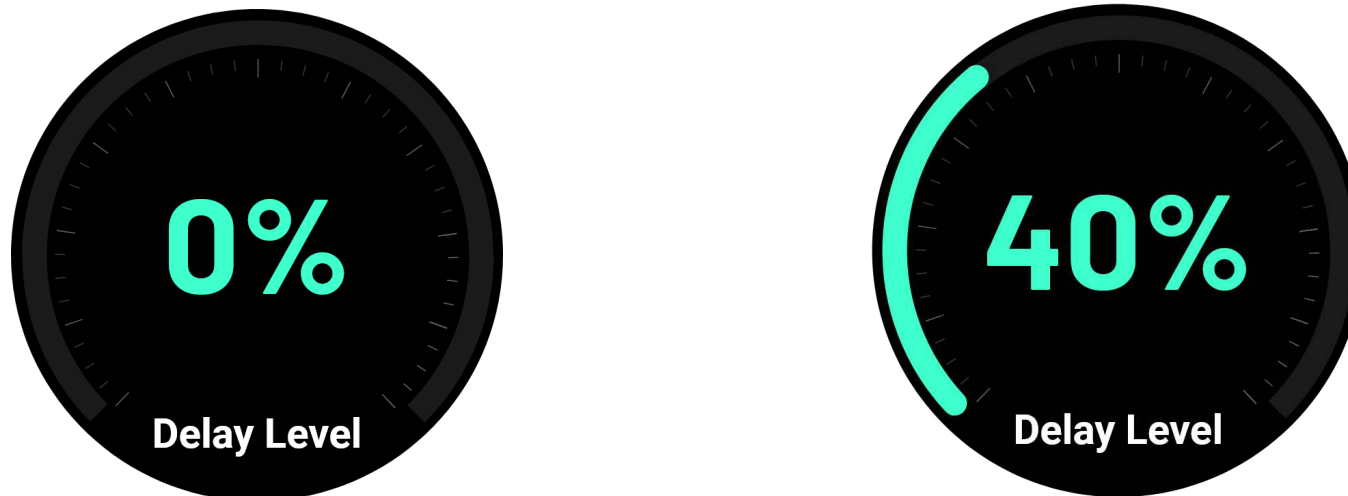
Unsave/Save animation



2. Quickly adjust parameters & switch effects on the main screen

(1) Effect level

- Turn the LEVEL knob directly to adjust the effect volume.



Effect Level Adjustment Screen

(2) Adjust parameters directly on the main screen

- The 3 parameter slots at the bottom correspond to EDIT, TYPE, and SAVE.
- Long-press EDIT → Parameter 1 highlights → turn VALUE to adjust.
- Long-press TYPE → Parameter 2 highlights → turn VALUE to adjust.
- Long-press SAVE → Parameter 3 highlights → turn VALUE to adjust.



(3) Switch Effect Type on the Main Screen

- Long-press TYPE—when Parameter 2 highlights in white, turn the SELECT knob to quickly switch effect types.



3. Footswitch Functions — vary by effect type

(1) Footswitch A

- Acts as the main effect ON/OFF switch.



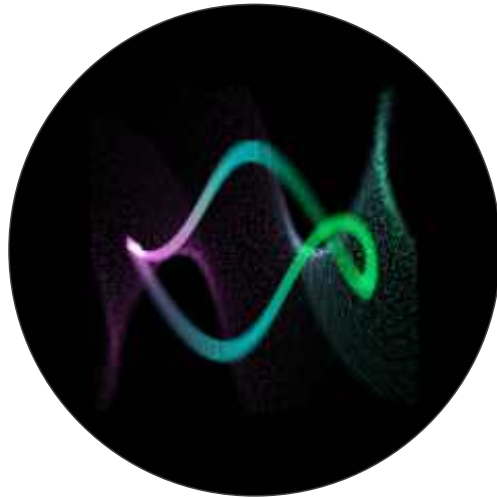
On



Off

(2) Footswitch B

- For REVERB firmware: hold to trigger INFINITE sustain.
- For DELAY / MOD firmware: functions as TAP tempo.



INFINITE sustain



TAP Tempo

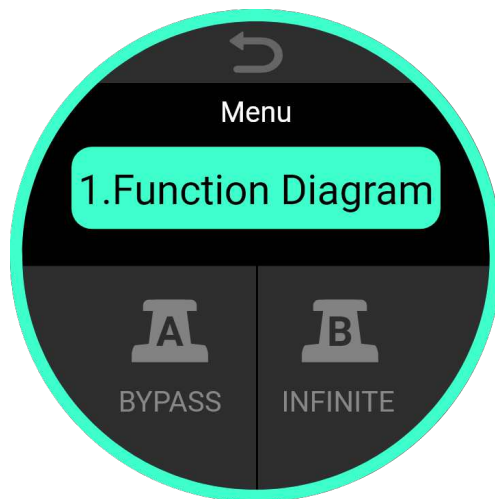
(3) Combined Operation

- Press both footswitches together to enter preset scroll mode. Tap A or B to move forward/backward through presets. Automatically exits after a short timeout.

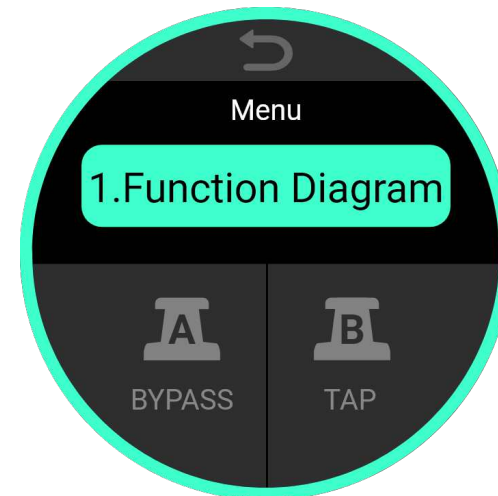
4、MENU

From the main screen, press SELECT to enter MENU, then rotate SELECT to browse pages.

(1) Displays footswitch function diagrams for each effect mode.



REVERB



DELAY & MOD

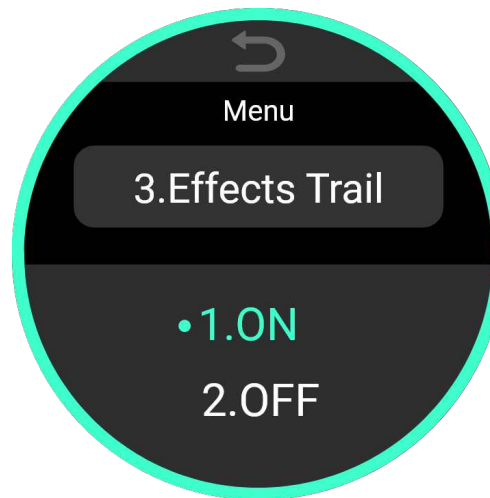
(2) Kill Dry

- Press SELECT to enter the lower control panel, rotate SELECT to choose ON or OFF, then press SELECT again to return to the previous menu.



(3) Effects Trail

- Press SELECT to enter the lower control panel, rotate SELECT to choose ON or OFF, then press SELECT again to return to the previous menu.



(4) Reset

- Press and hold SELECT to enter Hold for Reset, then release SELECT. META FX will reboot and restore factory settings.



Mooer Studio for META Fx

Mooer Studio for META FX is the dedicated desktop software for this product. It allows preset import/export, firmware updates, backup/restore, and data reset.

Download and install from the official website: www.moeraudio.com

1.System Requirements

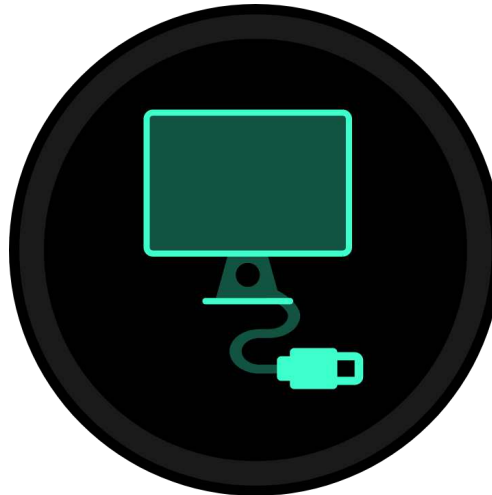
Win: Windows 10及以上

Mac: Mac OS 11.6及以上

2.Connections

- Connect META FX to your computer using the included USB cable.
- Launch the software and enable the connection switch in the upper-left corner.
- Select META FX from the device list and click Connect.
- When the status shows Connected, the link is successful.

Note: Once successfully connected, local controls on META FX will be temporarily disabled. The device screen will display the connection status until the link is disconnected.



3、Software Interface

Device Model & Connection

Shows device model, firmware version, and connection status

Control Area

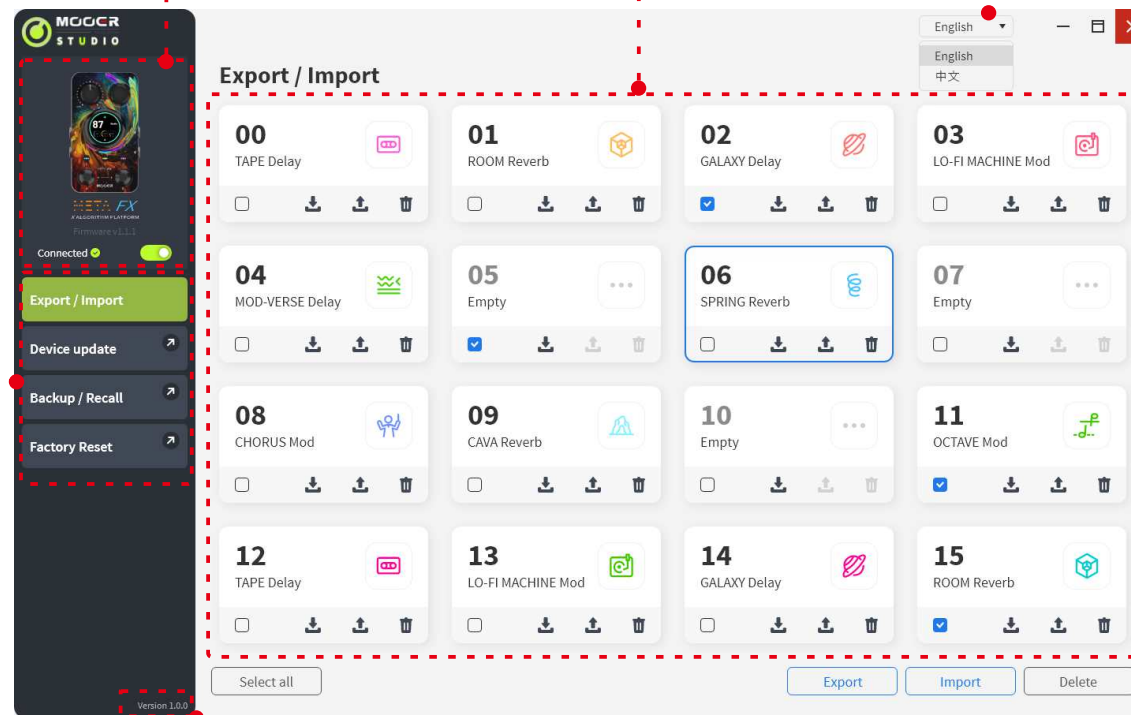
Corresponding operation area for the selected function on the left panel

Language Settings

Select your language from the dropdown menu

Function List

Import/Export, Firmware Management, Backup & Restore, Data Reset



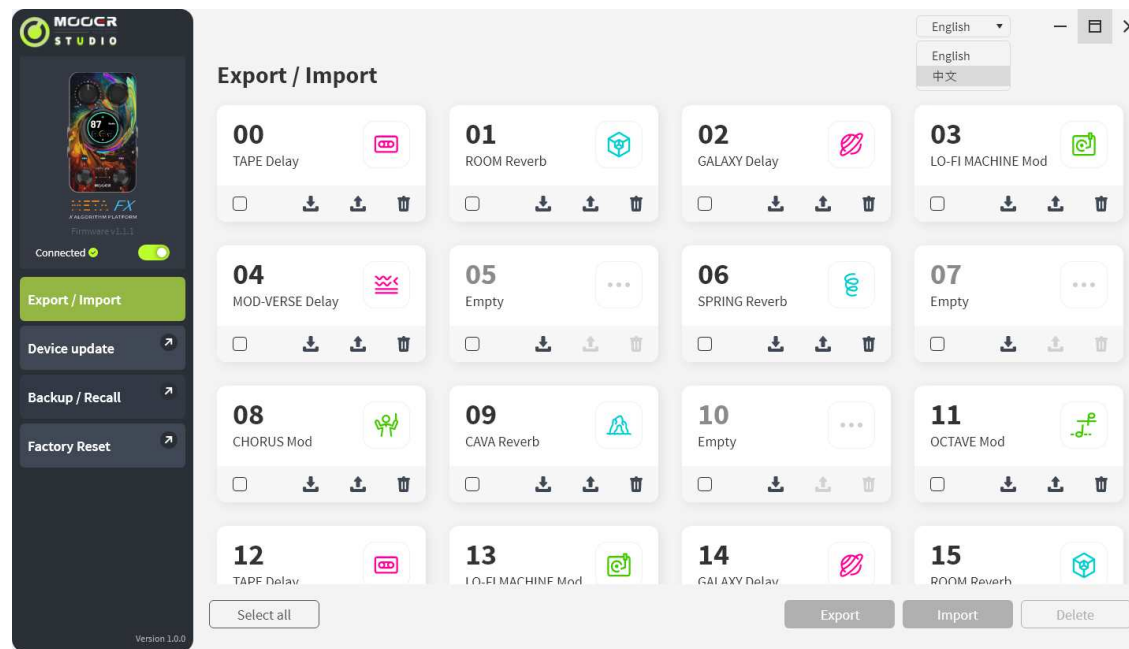
Software Version

Displays the current software version

4、Function Description

(1) Import/Export

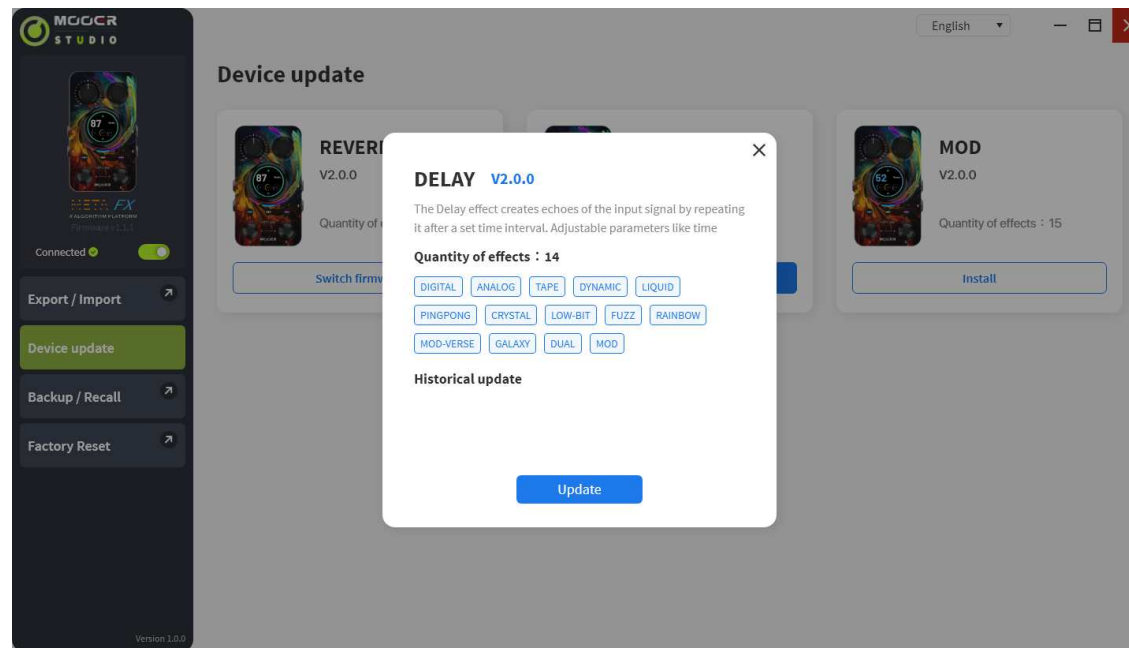
- Allows batch of presets and deletion of unwanted presets.



(2) Firmware Management

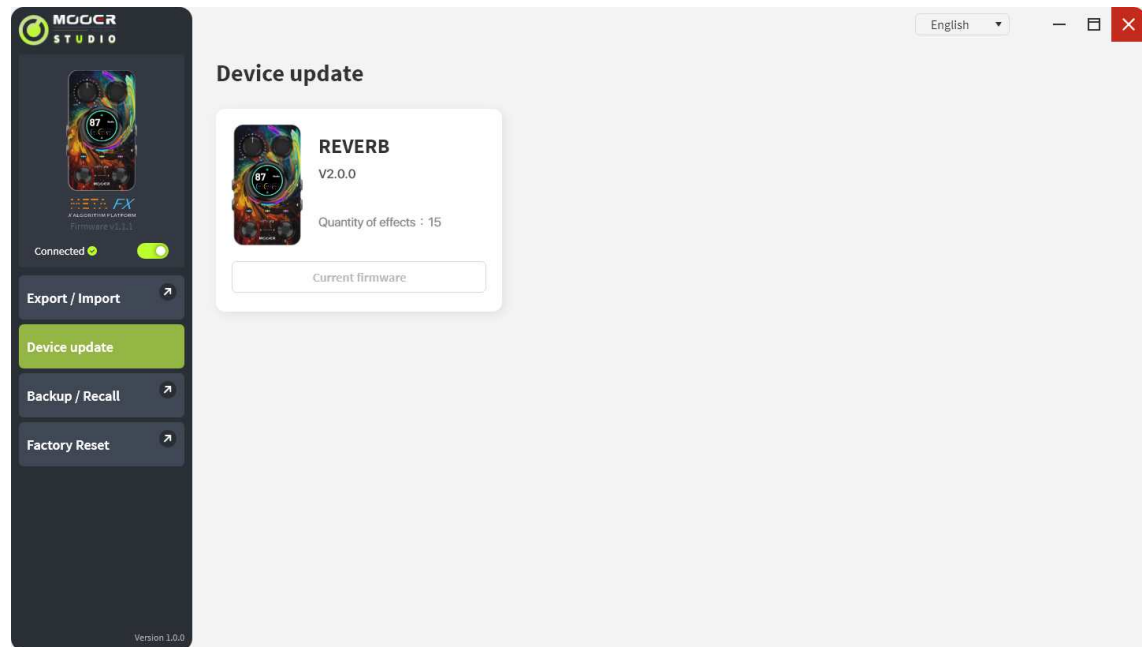
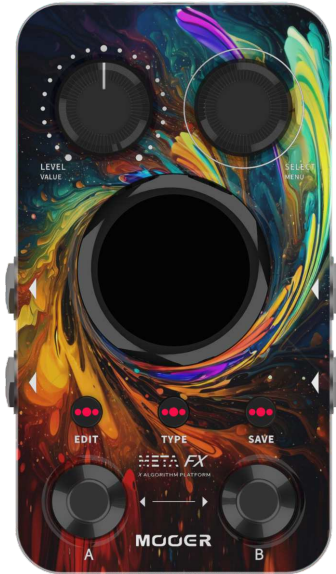
- **Update**

Method 1 (Recommended): Click Device Update to enter the update area, select the effect firmware you want to update, and click Update. Wait for the update to complete.



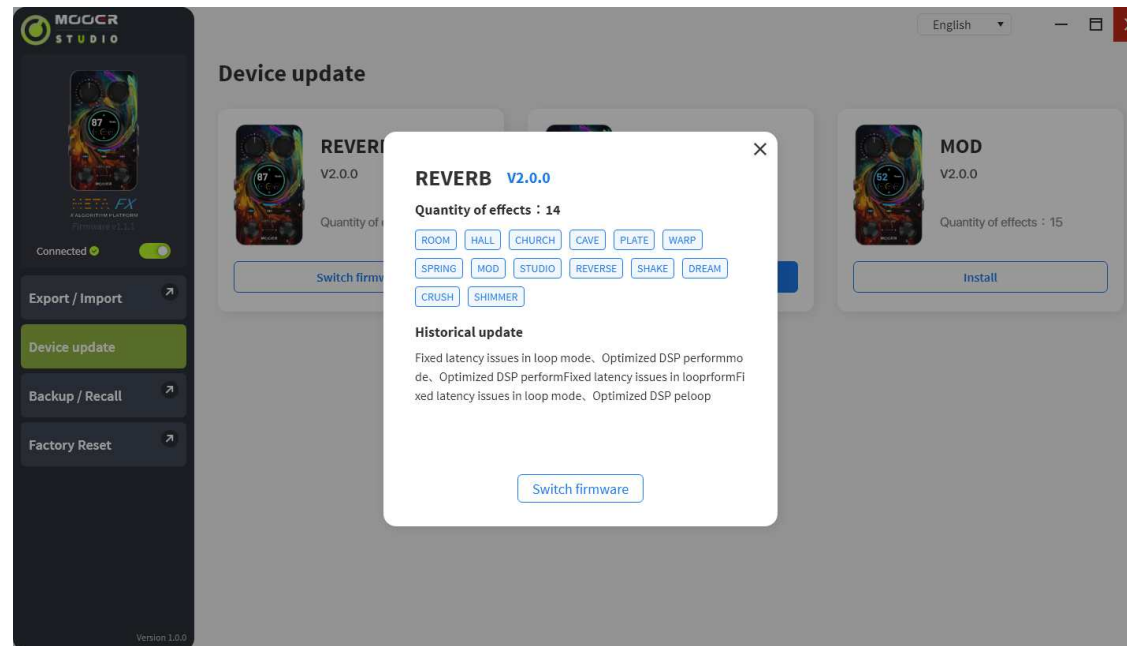
Method 2: Press and hold SELECT, then connect the power. When EDIT, TYPE, and SAVE buttons light red, the device is in update mode. Connect the device to a computer via USB, open the desktop software, click the Connect switch at the top left, select META FX from the device list, and click Update.

Note: This method only updates the currently selected effect firmware on META FX.



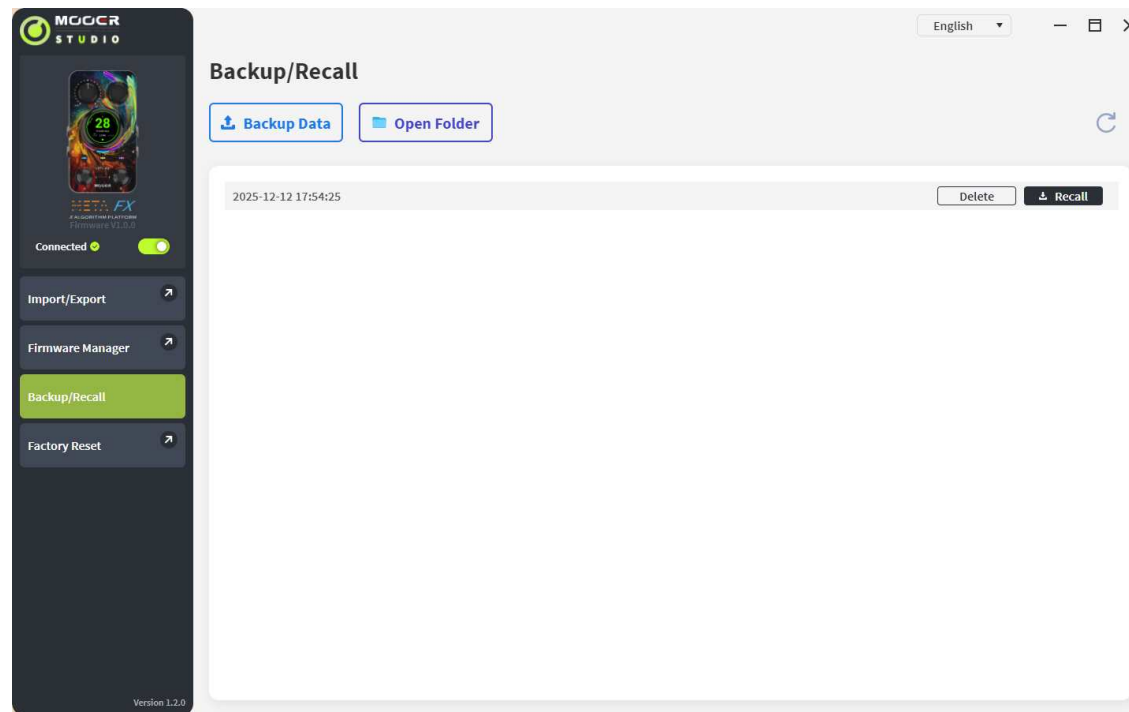
- **Switch Firmware**

Select the desired effect firmware and click Switch Firmware, then wait for the process to complete.



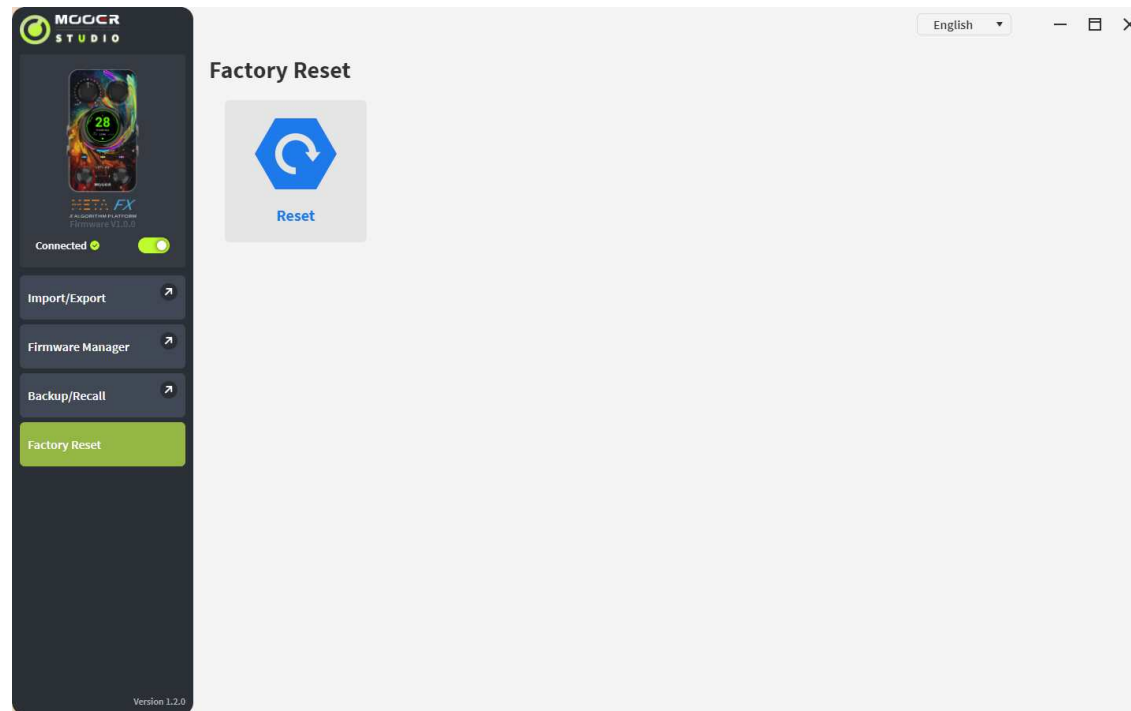
(3) Backup/Restore

- Click Backup/Recall to enter the corresponding operation area, click Backup Data to back up the currently used effect data, click Recall to restore previously backed-up effect data files, click Delete to remove backup files, and click Open Folder to open the local storage location of the backup files.



(4) Data Reset

- Click Factory Reset to enter the corresponding operation area, then click Reset to restore data to factory defaults.



Technical Specifications

Input:	2 × 1/4" mono input jacks (impedance 2.2 MΩ)
Output:	2 × 1/4" mono output jacks (impedance 120 Ω)
Headphone Jack:	1 × 1/8" stereo jack (impedance 32 Ω)
Storage Locations:	100
Sample Rate / Bit Depth:	44.1 kHz / 24-bit
Power Requirement:	9V center-negative, 300 mA (recommended to use the original power adapter with independent power supply to avoid unnecessary crosstalk or noise)
Dimensions:	125 mm (L) × 74 mm (W) × 49 mm (H)
Weight:	200 g
Accessories:	Adapter, USB-C to USB-A cable, Quick Guide

Troubleshooting

- Use the correct power adapter, otherwise the device may not function properly or could be damaged.
- Ensure all connections are correct. Improper connections may result in no output signal or signal loss; please refer to the connection diagram for details.



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