

MOOER

VE200

VOCAL MULTI EFFECTS

Owner's Manual



Contents

Safety Precautions	01-02
Product Features	03-04
Panel Descriptions	05-11
Connection Diagrams	12-17
Typical Connection Scenarios	13-16
Core Connection Logic Reference	17
Operation Guide	18-35
Power On / Power Of	18-19
Preset Selection& Switching	20
Key Learning & Settings	21
Effect Editing & Saving(Edit & Save)	22-23
Looper	24-26
System Menu & Settings	27-31
MOOER AI Stem Lab—Track Separation & Backing Track Creation	32-33
Knob Overlay Quick UI & Shortcuts	34-35
Effects Guide	36-38
Troubleshooting	39-40
Specifications	41-42
Appendix-MIDI Implementation Chart	43-45

Safety Precautions

Power Supply

- **AC Adaptor:** Use a DC 9V 1.5A AC adaptor (center negative). Using an adaptor with less than 1.5A current output or reversed polarity may cause malfunction, overheating, or damage to the unit.
- **Built-in Battery:** This unit contains a built-in rechargeable lithium battery. Ensure it is fully charged before first use.
- **Battery Maintenance:** To maintain battery health, charge the unit fully at least once every 3 months during extended periods of non-use.
- **Power Limitation:** Do NOT attempt to power this unit via the USB port.

Connections & Operation

- **48V Phantom Power:** This unit provides 48V phantom power, supporting condenser microphones.
- **Caution:** Before enabling 48V phantom power, verify that your microphone supports it. When connecting dynamic microphones or devices that do not support 48V, ALWAYS turn this switch OFF — failure to do so may damage the microphone.
- **Power-On/Power-Off Sequence:** To protect your ears and PA system from power surge damage, follow this sequence:
- **Power-On:** Turn on this unit FIRST, then power on the external PA system or amplifier.
- **Power-Off:** Turn off the external PA system or amplifier FIRST, then power off this unit.

Operating Environment

- **Environment:** Do not use or store the unit in damp, high-temperature, or direct sunlight (exposure) environments.
- **Water & Moisture:** This product is not waterproof. Avoid use in rain or near water sources.
- **Placement:** Place the unit on a stable surface and avoid strong vibration or dropping.

Cleaning & Maintenance

- Use only a soft, dry cloth for cleaning. Never use alcohol, thinner, or chemical solvents.
- Do not disassemble or modify the unit. There are no user-serviceable parts inside.

Product Features

The VE200 is an all-in-one vocal processing solution for singers, singer-songwriters, and stage performers. It integrates core tools from basic pitch correction to advanced harmony generation, plus instrument input and mobile recording — delivering professional -grade vocal tone in any scenario.

Comprehensive Vocal Processing Toolbox

Built-in Compressor, Tone Enhance, Pitch Correction, Intelligent Harmony, Vocoder, Character effects, and a full suite of ambient effects — covering everything from studio-quality polish to creative electronic vocal tones.

Intelligent Pitch Correction & Natural Harmony

Supports Pitch Correction with real-time adjustment via MIDI reference signals. The Intelligent Harmony function offers multiple modes (including upper/lower harmonies and unison) and can generate matching harmonies via Key settings, guitar input signals, or MIDI Note data.

Innovative Key Learning

Featuring an innovative Key Learning algorithm, a single footswitch press allows the unit to automatically detect the song key through vocal input, guitar performance, or Bluetooth audio playback —delivering accurate pitch correction and harmony effects without complicated setup.

MOOER AI StemLab — Create Backing Tracks Instantly

Use the built-in AI StemLab track separation feature in the MOOER CLOUD APP to intelligently split any song into vocals and backing — no more searching for accompaniment tracks. Paired with Bluetooth audio input and automatic Key Learning, go from song selection to stage in one seamless flow.

Stage-Friendly Design

Built-in three-level Anti-Feedback function to effectively eliminate stage feedback. Supports Bluetooth audio input with automatic Key Learning for quick performance setup.

Looper

Built-in high-quality Looper with multi-layer Overdub recording, unlocking limitless creative possibilities for live performance.

Pro Connectivity & Mobile Recording

Equipped with XLR & 6.35mm combo input jack, supporting 48V phantom power. Features dual output modes and USB OTG functionality for connecting to smartphones or computers — record and share high-quality audio and video anytime, anywhere.

Built-in Rechargeable Battery — Perform Anywhere

Built-in high-capacity rechargeable lithium battery frees you from power outlet constraints — ideal for busking and outdoor live streaming.

Panel Descriptions



01 1.28" Round Touch Display

High-brightness color touch display for real-time preset information, effect status, menu parameters, and partial touch operations.

02 [HARMONY/VOCODER] Knob

Adjusts the output level or mix ratio of the Harmony, Vocoder, or Character effect block.

Turn counterclockwise: Decrease the effect level. Turn fully left to mute the effect.

Turn clockwise: Increase the effect level.

03

[PITCH CORR] Knob

Adjusts the correction intensity of the Pitch Correction block.

Turn counterclockwise: Decrease correction intensity. Turn fully left to disable the correction effect.

Turn clockwise: Increase correction intensity. Turn fully right for the strongest correction (most pronounced electronic vocal effect).

04

[EFFECTS] Knob

Controls the level of ambient effects. Turning the knob brings up the four-color selector (Master / MOD / DLY / REV) on screen. You can adjust the overall ambient effects master level or individually adjust the Modulation, Delay, and Reverb levels.

Turn counterclockwise: Decrease the ambient effect level.

Turn clockwise: Increase the ambient effect level.

05

[MENU] Encoder

Multi-function control knob supporting rotation and push operations.

Long press: Power on or power off the unit.

Short press: Enter the Settings menu from the Stage View.

Rotate: Navigate menus, scroll pages, and adjust parameter values.

06

[ANTI-FB] Button

Anti-Feedback function shortcut button.

Operation: Press repeatedly to cycle through Low / Medium / High feedback suppression levels, plus Off status.

Effectively eliminates stage feedback.

07

[EDIT/SAVE] Button

Effect editing and preset save function button.

Short press: Enter the effects chain edit menu to adjust individual effect parameters.

Long press: Save the current preset.

08

[KEY] Button

Key setting shortcut button.

Short press: Enter the Key settings menu directly. Hold [KEY] while rotating the [MENU] encoder to quickly switch the tonic note name.

09

A, B, C Footswitches & Indicators

[A / Key Learning] Footswitch

Short press: Enter the Key Learning screen to automatically detect the key from an external audio signal.

Long press: Enter the Looper screen for recording, playback, overdubbing, etc.

[B / Pitch] Footswitch

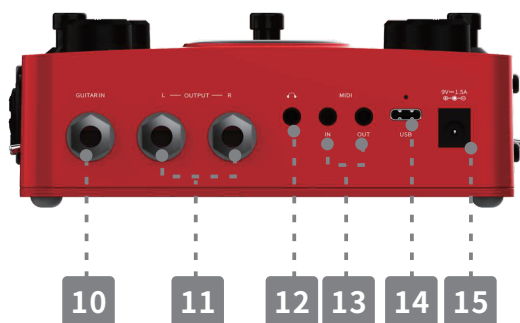
Function: Toggles the Pitch block on/off. This block combines Pitch Correction, Harmony, Vocoder, and Character effects.

Looper mode: Short press B to stop; long press B to clear.

[C / Effects] Footswitch

Function: Toggles the Effects block on/off. This block combines the Modulation, Delay, and Reverb ambient effect blocks.

Key Learning mode / Looper mode: Short press C to exit.



10 [GUITAR IN] Jack

Type: 6.35mm (1/4") TS unbalanced jack.

Function: Connect an electric guitar, acoustic guitar, or other instrument. The instrument signal can share effects with the microphone signal — ideal for singer-songwriters.

11 [OUTPUT L/R] Jacks

Type: 2 × 6.35mm (1/4") TS unbalanced jacks.

Function: Connect to amplifiers, mixers, or PA systems.

Mono connection: Connect only to the L (MONO) jack.

Stereo connection: Connect to both L and R jacks.

12 [PHONES] Jack

Type: 3.5mm (1/8") TRS stereo jack.

Function: Connect headphones for silent practice or real-time monitoring.

13 [MIDI IN / MIDI OUT] Jacks

Type: 2 × 3.5mm (1/8") TRS jacks.

Function: Connect external MIDI controllers or sync devices. Supports MIDI preset switching, parameter control, and pitch reference input for the Harmony function.

14

[USB Type-C] Port

Function: OTG recording — connect to a smartphone or computer via USB cable to stream high-quality audio directly into recording software.

Firmware Update: Connect to a computer for system firmware updates.

15

[DC IN] Power Input Jack

Specifications: 9V 1.5A, center negative.

Warning: To ensure stable operation and prevent hardware damage, always use the included official AC adaptor.



16

[XLR OUT L / R]

XLR balanced output jacks for connecting to a mixer or PA system.

17

[GND / LIFT] Toggle Switch: XLR output ground lift switch.

Ground: Grounded.

Lift: Lifted (ground disconnected).

Tip: If you hear low-frequency hum when connected to an audio system, try toggling this switch to eliminate ground loop noise.



18

[MIC GAIN] Knob

Adjusts the preamp gain for the microphone input jack.

Operation: Turn clockwise to increase gain, counterclockwise to decrease. Adjust to an appropriate level based on your microphone's sensitivity to avoid signal clipping.

19

[INPUT] XLR / 6.35mm (TS) Combo Input Jack

Multi-function input jack supporting microphone or line-level signal input.

XLR Connector: Connect dynamic microphones, condenser microphones, or line-level signals via XLR.

6.35mm Line Input: Connect the line-level output of external mic preamps, mixers, synthesizers, or external effects processors. NOT intended for high-impedance instrument inputs such as guitar or bass.

Note: When using the 6.35mm jack, the signal enters the circuit at a fixed line level and does not pass through the unit's built-in preamp. If you are using an external mic preamp, connect its line output to this jack, then use the VE200's vocal processing.

20

[MIC / LINE] Toggle Switch

Defines the input level type for the left combo jack (XLR connection only).

MIC: Select when connecting a microphone; activates the internal preamp circuit.

LINE: Select when connecting line-level devices such as mixers or synthesizers.

21

[48V] Toggle Switch (Phantom Power)

Provides 48V phantom power for condenser microphones that require it.

ON: Phantom power enabled.

OFF: Phantom power disabled.

Caution: When connecting non-condenser microphones (such as dynamic, ribbon, or instrument-level signals), ALWAYS keep this switch set to OFF. Failure to do so may cause permanent hardware damage to the microphone.

Connection Diagrams

This chapter describes the physical connection methods for the VE200 in different usage scenarios. Choose the appropriate connection scheme based on your setup (stage performance, personal practice, digital recording).

Typical Connection Scenarios

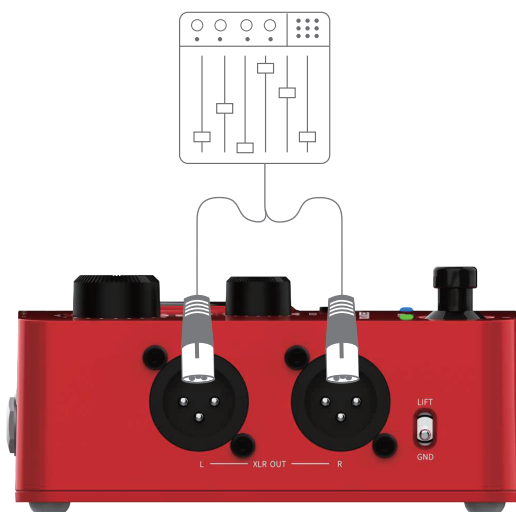
Scenario A: Standard Stage Performance (Split Signal Mode)

In this mode, the vocal signal is sent to the FOH mixer (PA system), while the guitar signal is routed to the on-stage guitar amp — keeping both signals independent.



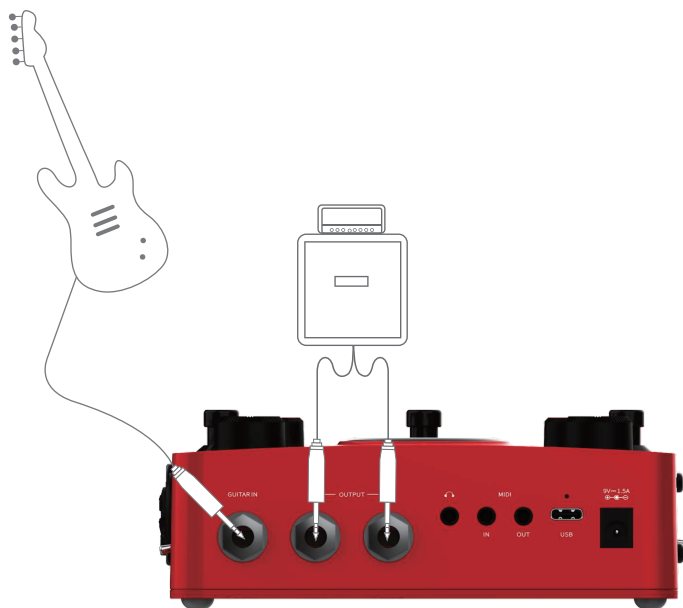
Vocal Input

Connect a microphone to the MIC/LINE INPUT combo jack. Set the [48V] switch and [MIC/LINE] toggle according to your microphone type.



Vocal Output

Use XLR cables to connect [XLR OUT L/R] to the mixer. (Note: If a Bluetooth backing track is playing, the backing signal will also be routed through the XLR outputs to the mixer.)



Guitar Input: Connect your guitar to the [GUITAR IN] jack.

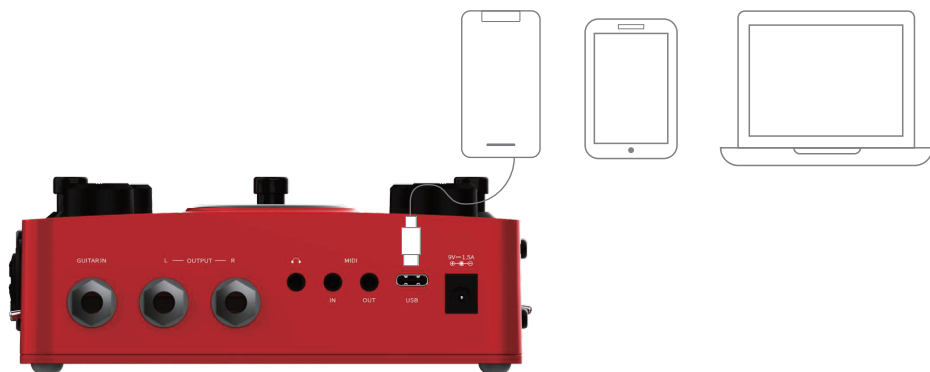
Guitar Output: Use a 6.35mm instrument cable to connect [OUTPUT L/R] to the guitar amp.

Prerequisite: Set VOCAL/GUITAR SPLIT to ON in the system menu [MENU].

Scenario B

Mobile Live Streaming / Smartphone Recording (Mixed Mode)

In this mode, all audio sources (vocals, guitar, backing tracks) are mixed together and output to a smartphone or computer for recording.



Backing Track Input: Connect your smartphone to the VE200 via Bluetooth to play backing tracks.

Digital Connection: Use a USB-C cable with OTG to connect to a smartphone / tablet / computer.

Monitoring: Connect headphones to the [PHONES] jack.

Prerequisite: Set VOCAL/GUITAR SPLIT to OFF in [MENU].

Core Connection Logic Reference

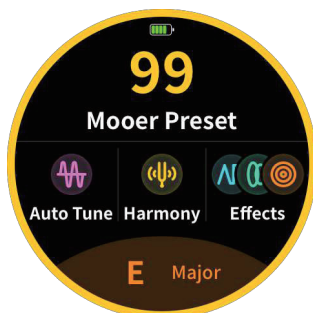
Function	Physical Location	Operation & Feedback
Ground Loop Elimination	Left panel	If hum is present when connected to a mixer, set the [GND/LIFT] switch to LIFT.
Phantom Power	Right panel	When using a condenser microphone, ALWAYS set [48V] to ON.
Input Level Switching	Right panel	Select MIC when connecting a microphone (routed through preamp); select LINE when connecting a synthesizer or external effects unit (bypasses preamp).
MIDI Integration	Top panel	Connect a MIDI controller for preset switching, parameter control, or to receive MIDI Note data for pitch correction and harmony generation.

Operation Guide

This chapter provides a detailed walkthrough of the VE200's core functions and operating procedures.

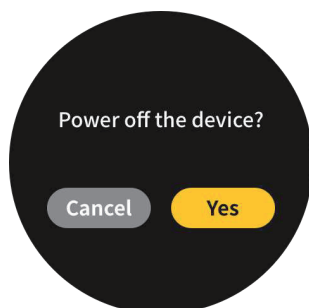
Power On / Power Off

1. Long press the [MENU] encoder — the system starts and enters the Stage View.



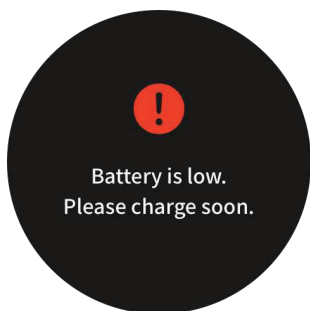
2. Long press the [MENU] encoder again — the screen displays the "Power off the device?" confirmation prompt.

3. Rotate the [MENU] encoder to select "Yes" and press the encoder to confirm — the unit powers off.



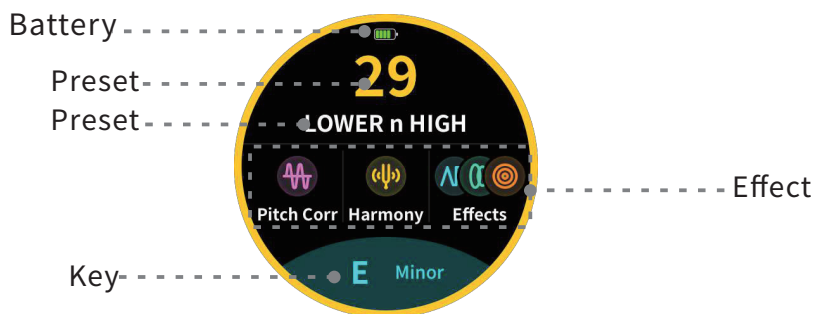
04.Low Battery Warning

When the screen displays "Low Battery, Please charge soon.", charge the unit promptly. If the screen displays "Battery is almost empty. Shutting down shortly.", the unit will power off automatically.



Preset Selection & Switching

The VE200 Stage View displays the preset number, name, Key setting, and the current status of each effect block in real time.



Using the Encoder: From the Stage View, rotate the [MENU] encoder to scroll up/down and switch presets.

Using the Footswitches: Press [A] and [B] footswitches simultaneously to switch to the previous preset (decrement). Press [B] and [C] footswitches simultaneously to switch to the next preset (increment). The screen briefly displays preset information during switching; press any single footswitch to confirm and jump to the target preset.

Key Learning & Settings

An accurate Key setting is the foundation for Pitch Correction and Harmony effects to work perfectly.

Manual Key Setting: Short press the [KEY] button to enter the Key settings menu. Use the touch screen or rotate/press the encoder to select the Key (e.g., C, D, E), Scale mode (Natural Major / Natural Minor / Harmonic Minor / Melodic Minor / Dorian / Phrygian / Lydian / Mixolydian / Locrian), and reference pitch (430Hz–450Hz). Hold [KEY] while rotating the [MENU] encoder to quickly switch the tonic note name.

Auto Key Learning

1. Short press the [A] (Key Learning) footswitch. The footswitch indicator and [KEY] button light flash simultaneously, and the screen displays "Waiting for input..."
2. Provide a continuous audio signal via microphone, guitar input, or Bluetooth audio playback.
3. Once detected successfully, the screen displays the detected key in large text and the indicators return to steady. Press footswitch A to retry or footswitch C to exit.



Effect Editing & Saving (Edit & Save)

1.Short press the [EDIT/SAVE] button (or touch an effect block on the Stage View) to enter the first-level effect edit screen.

2.Tap the toggle switch below an effect icon to turn that block on or off. Tap the effect icon to enter the second-level screen and adjust individual parameters.

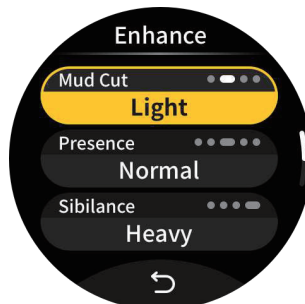


Ein



Aus

3.In the second-level screen, tap to select a parameter and rotate the [MENU] encoder to change its value.



4.Once adjustments are complete, long press the [EDIT/SAVE] button to enter the Save screen.

5.Edit the preset name on the Save screen. Tap the color block above to change the preset color, then short press [EDIT/SAVE] to save and return to the Stage View.



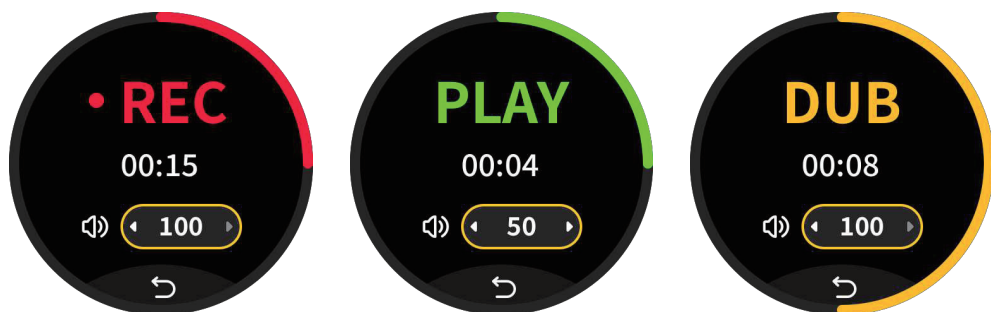
Looper

The VE200 includes a built-in professional-grade Looper.

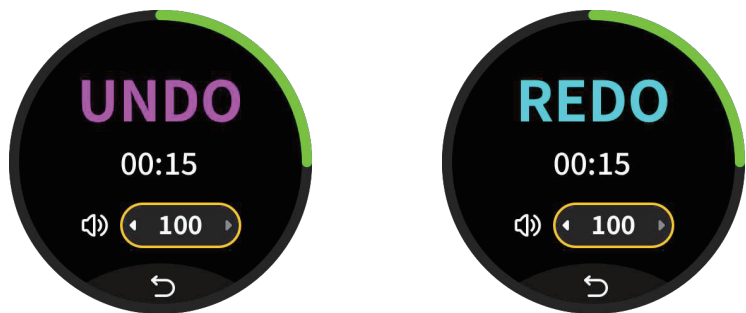
Enter / Exit: Long press the [A] footswitch to enter the Looper screen. Short press the [C] footswitch to exit the Looper.

Record & Playback

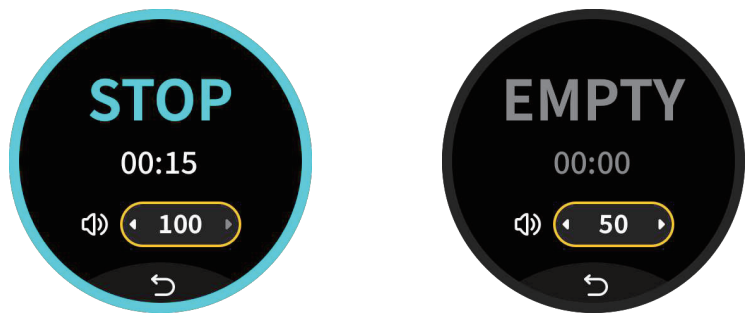
1. Short press the [A] footswitch to start recording (screen displays DUB/REC).
2. Short press [A] again to enter play mode (screen displays PLAY).
3. Short press [A] during playback to overdub.



Undo & Redo: Long press the [A] footswitch to undo the last overdub. Long press again to redo.



Stop & Clear: Short press the [B] footswitch to stop playback. Long press [B] to clear all recorded data.



Adjust Volume: From the Looper screen, press the [MENU] encoder to select "Playback Volume," then rotate [MENU] to adjust.

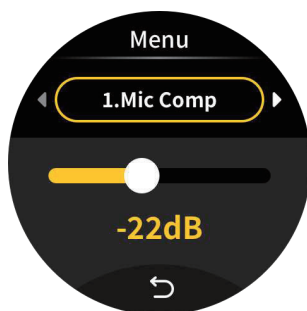


[Note]: When split output (SPLIT ON) is enabled, the guitar signal is routed to its independent channel and will NOT be recorded by the Looper. Recorded content follows the vocal path and outputs only through the XLR jacks to the mixer / PA system.

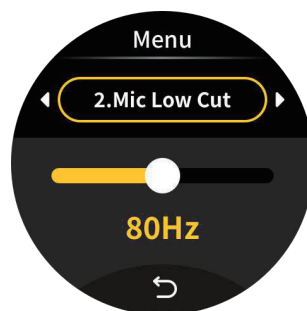
System Menu & Settings

From the Stage View, short press the [MENU] encoder to enter the system menu. Navigate using the touch screen or encoder. Core settings include:

MIC COMP (Microphone Compressor): Adjusts the compression threshold for the microphone input signal. Setting to minimum turns compression OFF.



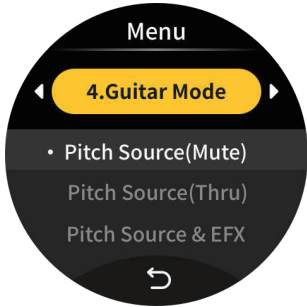
MIC LOW CUT (Microphone Low Cut): Select Off, 60Hz, 80Hz, 100Hz, or 120Hz to filter out unwanted low-frequency noise (such as plosives or low-frequency stage rumble).



BLUETOOTH: Select On or Off. When enabled, you can connect your smartphone via Bluetooth to play backing tracks, assist with Key Learning, and communicate with the MOOER CLOUD APP.



GUITAR MODE: Choose PITCH SOURCE (guitar used only as a pitch reference) or SOURCE & EFX (guitar shares ambient effects).



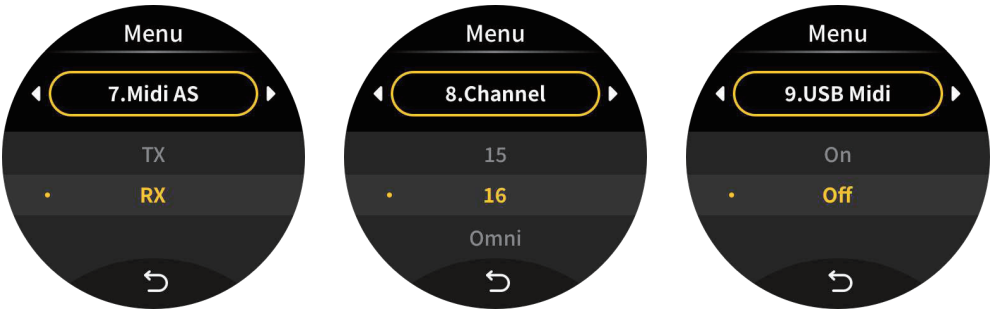
VOCAL/GUITAR SPLIT: When set to ON, the XLR outs carry only the processed vocal signal, Bluetooth backing audio, and Looper playback; the 6.35mm outs carry only the guitar signal. The headphone output monitors the guitar signal.



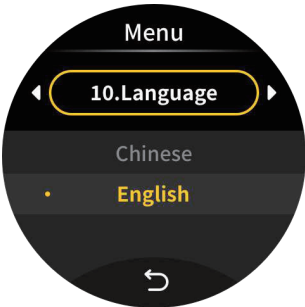
PRESET FOOTSWITCH: Set the PITCH and EFFECTS footswitches for the current preset to Momentary (effect engages only while pressed) or Latching (press to toggle on/off).



MIDI Settings: Configure MIDI TX/RX roles, channel (1–16 / Omni), and USB MIDI on/off.



Language: Supports Chinese and English.



Reset: Press and hold [MENU] to execute a Factory Reset.



MOOER AI Stem Lab — Track Separation & Backing Track Creation

The VE200 supports the powerful MOOER AI StemLab track separation technology via the MOOER CLOUD APP.

1.Enable Bluetooth (Prerequisite)

First, short press the [MENU] encoder to enter the system menu and set BLUETOOTH to On.

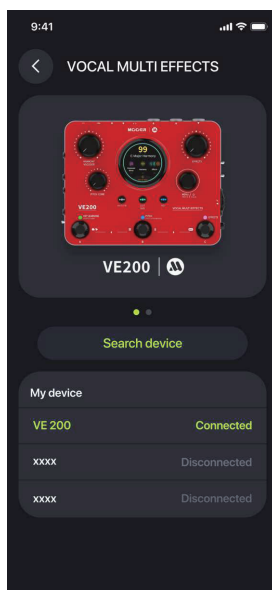
2.Download & Install the APP

iOS users: Go to the App Store and search for "MOOER CLOUD" to download.

Android users: Go to Google Play, Tencent App Store, or visit the MOOER official website to download the installation package.

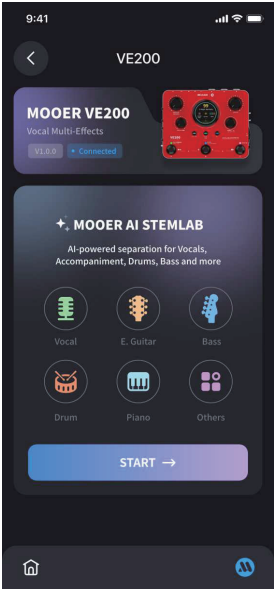
3.Connect the Device

Enable Bluetooth on your smartphone and open the MOOER CLOUD APP. Find and connect to your "VE200" in the device list.



4.Create a Backing Track

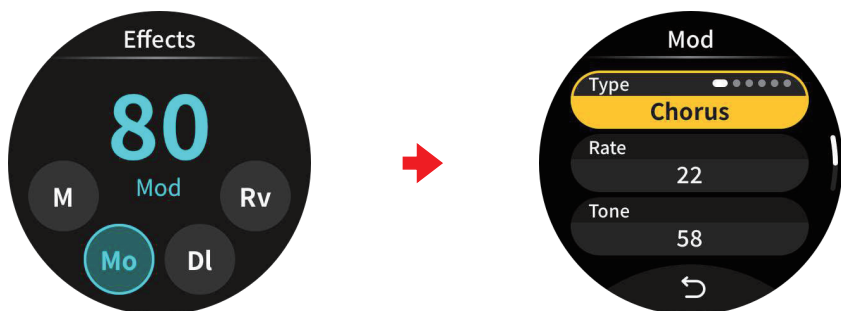
Once connected, enter the MOOER AI StemLab screen to split your local music into high-precision separated tracks with a single tap — create your own personalized backing track.



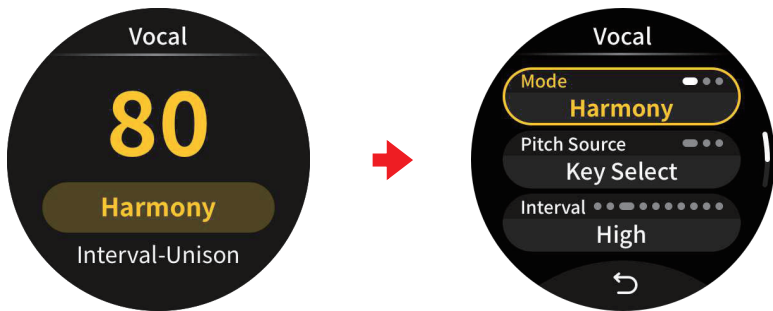
Knob Overlay Quick UI & Shortcuts

The VE200 features an intelligent "Knob Overlay" function. When you turn a physical knob on the panel, the screen automatically displays its corresponding quick-access overlay:

[EFFECTS] Knob: Turning the knob brings up the four-color selector (MASTER / MOD / DLY / REV). The knob adjustment affects only the currently selected color block, and the selection is saved with the preset. Long press the MOD / DLY / REV color blocks on screen to jump directly to that ambient effect's second-level edit screen.



[HARMONY/VOCODER] Knob: After the overlay appears, long press the mode color block on screen to jump directly to the VOCAL block's detailed edit screen.



[Pitch Correction] Knob: After the overlay appears, long press the mode color block on screen to jump directly to the Pitch Correction detailed edit screen.

Effects Guide

This chapter lists all built-in vocal and ambient effects in the VE200 and their adjustable parameters.

1. TONE ENHANCE

This block is purpose-built for vocals, featuring EQ, de-essing, and saturation processing to help you quickly achieve a studio-grade vocal tone.

Switch: On / Off.

MUD CUT: Attenuates the 300Hz band to reduce muddiness.

Options: Off, Light, Medium, Heavy.

PRESENCE: Boosts or cuts the 2.5kHz band. Options: Far-back, Back, Normal, Front, Forefront.

SIBILANCE: Attenuates harsh sibilance around 6.5kHz.

Options: Off, Light, Medium, Heavy.

AIR: Boosts high frequencies above 12kHz. Options: Soft, Silk, Sparkle.

SATURATOR [0–100]: Adds vocal harmonics. Higher values produce a warmer, brighter tone.

2. Pitch Correction

Provides pitch correction from natural tuning to pronounced electronic vocal effects.

Switch: On / Off.

Mode: Chromatic or Scale-based.

Pitch Source: Key Select / MIDI Note.

Intensity [0–100]: Higher values produce faster correction and a stronger electronic vocal effect.

Type: Soft / Electric.

3.VOCAL Block

Combines Harmony, Vocoder, and Character effects. The three modes are mutually exclusive — select one at a time.

Mode 1: Harmony

Pitch Source: Key Select / Guitar Chord / MIDI Note.

Interval: 10 options available. Single-voice harmonies: Low, Lower, High, Higher, Unison. Dual-voice combinations: Low & Lower, High & Higher, Low & High, Low & Higher, Lower & High.

Color [0–100]: Adjusts the gender characteristic of the harmony voice.

Level [0–100]: Adjusts the effect mix.

Mode 2: Vocoder

Pitch Source: Guitar Chord / MIDI Note.

Style: Classic / TalkBox / Modern.

Blend [0–100]: Adjusts the dry/wet signal mix.

Mode 3: Character

Style: B&W TV / Radio / Vinyl / Telephone / Spirit.

Level [0–100]: Adjusts the output level of this effect.

4.MOD (Modulation)

Offers 6 classic modulation effects.

Switch: On / Off.

Type

Chorus (Parameters): Rate, Tone, Depth, Level.

Flanger (Parameters): Rate, Mix, Feedback, Level.

Phaser (Parameters): Rate, Level, Depth.

Tremolo (Parameters): Rate, Depth, Tone, Level.

Rotary (Parameters): Rate, Mix, Tone, Level.

Panner (Parameters): Rate, Tone, Depth, Level.

5.DELAY

Adds spatial echo to your vocal sound.

Switch: On / Off.

Type: Digital, Analog, Tape, PingPong, Reverse.

Time [40ms–2500ms]: Adjusts the interval between delay repeats.

Feedback [0–100]: Adjusts the number of delay repeats.

Level [0–100]: Adjusts the delay effect volume.

6.REVERB

Creates reverb ambiance for a variety of spatial environments.

Switch: On / Off.

Type: Room, Studio, Hall, Plate, Church.

Decay [0–100]: Adjusts the duration of reverb decay.

Tone [0–100]: Adjusts the high-frequency brightness of the reverb.

Level [0–100]: Adjusts the reverb effect volume.

Troubleshooting

If you encounter issues while using the VE200, refer to the common troubleshooting scenarios below. If the problem persists, contact MOOER customer support.

1. Unit will not power on or shuts down unexpectedly

Check Power: Verify you are using the correct DC 9V 1.5A (center negative) AC adaptor.

Low Battery: If the screen displays "Low Battery, Please charge soon.", the battery is low — connect to power and charge promptly.

Auto Shutdown: If the screen displays "Battery is almost empty. Shutting down shortly.", the unit will power off automatically due to battery protection. Charge immediately.

2. No guitar sound from XLR outputs, or no vocal sound from 6.35mm outputs

Check Split Output Setting: Enter the system menu (MENU) and check whether VOCAL/GUITAR SPLIT is set to ON. When this mode is enabled, the vocal signal, Bluetooth audio, and Looper will output only through the XLR jacks, while the guitar signal outputs only through the 6.35mm jacks. To mix all signals, set this to OFF.

3. No microphone sound

Incorrect Input Setting: Check the toggle switch on the right panel. When connecting a microphone, ensure it is set to MIC (the LINE position bypasses the preamp, resulting in very low or no microphone volume).

Phantom Power Not Enabled: If you are using a condenser microphone, ensure the [48V] switch on the right panel is set to ON.

4. Persistent low-frequency hum (ground hum) when connected to an external audio system

Ground Loop Issue: Try setting the GND/LIFT switch next to the XLR outputs on the left panel to the LIFT position to break the ground loop and eliminate noise.

5. System freeze or unresponsive operation

Factory Reset: Power the unit off and on again. From the Stage View, short press the [MENU] encoder to enter the system menu, select item 11 RESET (Hold for reset), and long press the encoder to execute a factory reset.

Note: This operation will erase all unsaved custom presets.

Specifications

Category	Specification
Number of Effects	Compressor, Tone Enhance, Pitch Correction, Harmony/Vocoder /Character, Modulation (6 types), Delay (5 types), Reverb (5 types)
Tuning Reference Pitch	430 Hz – 450 Hz (Default: 440 Hz)
Input (MIC/LINE)	1 × XLR/TS combo jack (with built-in 48V phantom power switch) TS Input Impedance: 2.2MΩ / XLR Input Impedance: 1MΩ
Instrument Input (GUITAR IN)	1 × 1/4" (6.35mm) TS unbalanced jack Input Impedance: 2.2MΩ
Balanced Output (XLR OUT)	2 × XLR balanced jacks (L/R, with GND/LIFT ground switch) Output Impedance: 604Ω
Unbalanced Output (OUTPUT)	2 × 1/4" (6.35mm) TS unbalanced jacks (L/R) Output Impedance: 510Ω

Headphone Output (PHONES)	1 × 1/8" (3.5mm) TRS stereo jack Output Impedance: 32Ω
Digital / Communication	1 × USB Type-C port (supports OTG audio and system updates) 1 × 1/8" (3.5mm) TRS MIDI jack (supports IN & OUT)
Bluetooth	Bluetooth audio input (for backing tracks and automatic Key Learning)
Battery	3.7V / 3000mAh rechargeable lithium battery (approx. 5 hours of use on a full charge)
Power Requirement	DC 9V 1.5A (center negative)
Dimensions	149 × 115.9 × 56.2 mm
Weight	480 g
AD/DA Conversion	44.1 kHz / 24-bit

(Note: Specifications are subject to change without notice due to ongoing improvements.)

Appendix

MIDI Implementation Chart

The VE200 supports advanced MIDI integration. In the MENU settings, you can configure the device as TX (transmit) or RX (receive) and assign a channel (1–16 or Omni).

1. Program Change Receive

Receives PC 0–99 commands to switch to the corresponding Preset 00–99.

2. Control Change Receive (CC RX)

When the device is configured as a receiver, it supports the following parameter control:

CC Number	Target	Value Range & Action
CC#20	Tone Enhance On/Off	0–64 = Off, 65–127 = On
CC#21	Pitch Correction On/Off	0–64 = Off, 65–127 = On
CC#22	Pitch Correction Intensity	0–127
CC#23	VOCAL Block Master On/Off	0–64 = Off, 65–127 = On
CC#24	VOCAL Mode Switching	0–42 = Harmony 43–84 = Vocoder 85–127 = Character

CC#25	VOCAL Block Effect Level (Level/Blend)	0–127
CC#26	MOD (Modulation) Block On/Off	0–64 = Off, 65–127 = On
CC#27	DELAY Block On/Off	0–64 = Off, 65–127 = On
CC#28	REVERB Block On/Off	0–64 = Off, 65–127 = On
CC#29	EFFECTS Master Level	0–127

3. Control Change Transmit (CC TX)

When the device is configured as a control transmitter, operating the physical controls will send the following CC messages:

Physical Operation	Transmitted CC Number	Transmitted Value Range
Rotate [PITCH CORR] knob	CC#20	0–127
Rotate [HARMONY /VOCODER] knob	CC#21	0–127
Rotate [EFFECTS] knob	CC#22	0–127
Press [B / Pitch] footswitch	CC#23	Effect Off: sends 0; Effect On: sends 127
Press [C / Effects] footswitch	CC#24	Effect Off: sends 0; Effect On: sends 127

4. MIDI Note Receive

The VE200 receives MIDI Note messages only (does not transmit MIDI Notes). MIDI Note data from an external MIDI keyboard or sound source can serve as an extremely precise real-time pitch reference for the Pitch Correction and Harmony blocks.



MOOER
www.moeraudio.com

SHENZHEN MOOER AUDIO CO., LTD.
5F Unit B Jinghang Building, Liuxian 3rd Road,
Bao'an 71 District, Shenzhen, China. 518133
Tel: +86-0755-2163-6506

Made in China

FCC Warning Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.