MOOER GS1000 Intelligent Amp Profiling Processor Owner's Manual

MOOER GS1000 Intelligent Amp Profiling Processor

Contents

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Power supply

- Please only use a power supply adapter that meets the specifications of the manufacturer.
- Only use power supplies that have been approved by the relevant authorities and that meet local regulation requirements (such as UL, CSA, VDE or CCC).
- Disconnect the power supply when not in use or during thunderstorms.

For GS1000 Li:

- Prevent a device containing a battery from overheating (e.g., keep it out of direct sunlight and away from heat sources, etc.).
- Should the battery leak, prevent the liquid from getting into contact with skin or eyes. In case of contact with the liquid, consult a doctor.
- The battery supplied with this product may pose a risk of fire or chemical burns if not handled properly.

Storage and usage locations

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

- direct sunlight
- extreme temperature or humidity
- excessively dusty or dirty locations
- magnetic fields
- high humidity or moisture
- strong vibrations or shocks

Cleaning

Clean only with a soft, dry cloth. If necessary, lightly moisten the cloth. Do not use abrasive cleaners, cleaning alcohol, paint thinners, wax, solvents, cleaning fluids, or chemical-impregnated wiping cloths.

Operation

- Please do not use excessive force to operate the control elements of the unit.
- Prevent metal, paper or other objects from getting into the unit.
- Please do not drop the unit, and avoid heavy blows.
- Please do not modify the unit without authorization.
- Should repairs be required, please contact the MOOER Customer Service Center for more information

Connections

Always turn off / disconnect the power to the GS1000 and any other equipment before connecting or disconnecting signal cables. This will help prevent malfunctions and / or damage to other devices.
Also make sure to disconnect all connection cables and the power supply before moving the device.

FEATURES

- The first hardware effects unit in the GS series to feature speaker cabinet profiling
- Choice between GS1000 (traditional version with power adaptor) and GS1000 Li (version with integrated 7.4 V / 4750 mAh lithium-ion battery for hassle-free operation without external power supply)
- Ambient LED lighting perfectly blends visual and audio experience
- Large 5″ high-definition touch screen with intuitive UI, delivering brand-new multi-effect experience
- Features more than 350 original effect modules
- Supports download of MNRS amp simulation sample data into a total of 30 free storage positions
- Flexible dual-chain effect architecture for more usage scenarios and creative needs
- MNRS sampling technology by MOOER allows profiling the sound characteristics of four different device types: distortion/overdrive pedals, preamps, complete amplifiers and speaker cabinets, so you can carry your favorite devices around in your “gear bag”
- Supports download of third-party IR cabinet simulation sample files with a sample size of 2048 points, into a total of 30 free storage positions
- Multiple interfaces available to meet the user’s requirements in different scenarios, including 1/4″ instrument input, XLR microphone input and two balanced 1/4″ outputs
- Extensive I/O options provide flexibility for studio, stage and practice applications
- Series / parallel TRS stereo effect loops with adjustable positions in the effect chain can be set up to support your favorite rig configurations
- Supports connection of an external expression pedal to control effect parameters or volume
- Supports connection to the MOOER F4 wireless footswitch for extended control options
- Sub-Patch preset grouping mode allows seamless switching of tone types and parameters while maintaining effect tails
- Supports playback from Bluetooth audio input for practice and accompanied playing
- Groove Station mode with Drum Machine and Looper features which can be synchronized, the perfect tool for creativity and practice
- Precise built-in instrument tuner
- Tap tempo control for tempo-based effects and Drum Machine
- Adjustable Global EQ settings for easy integration in any setup and great results with all different kinds of instruments and venue configurations
- Innovative AI Equalizer provides more inspirations for tone adjustment based on music styles and genres

- Programmable MIDI ports for MIDI IN or MIDI OUT to allow control from external devices or to control other devices
- Type-C USB port:
  - Professional low-latency ASIO USB audio interface (Type-C) supports up to 192 kHz sample rate, providing a one-stop solution for professional musicians
  - USB MIDI function (see MIDI)
  - Supports connection to MOOER Studio software on a computer
  - Firmware updates via PC software
- Dedicated computer software and mobile app available for downloading and sharing presets and samples, sound- editing, backups, firmware updates and cloud access to a vast sound library created by users world wide

CONTROLS

1. **Power switch:** Press for about 3 seconds to switch the device on or off. Press and hold for more than 10 seconds to restart.
2. **5″ Touch screen**: Displays status and information about presets and operating modes.
3. **Home button:** Press to return to the main user interface or to switch between Stage View and Edit View.
4. **Master knob:** Rotate to adjust the total output volume.
5. **Save button:** Press to save your settings in a Preset.
6. **Profiling button:** Press to enter the MNRS sampling menu (see Profiling).
7. **Select knob**: Use to select presets, move modules or edit parameters.
   Rotate the knob to select items on the screen (highlighted).
   Press the knob to confirm the selection.
   Rotate the knob to change values.
   Press to restore default values.
8. **Ambient light bar: Indicates several functional aspects in different situations:**
   Lit above the active footswitch (preset)
   Blinks to indicate tap tempo
   Indicates the parameter setting when parameters are adjusted
9. **Footswitch A:**
   - in Preset mode: switches to Preset A in the selected bank
   - press again to enter CTRL mode
   - in CTRL mode: executes pre-programmed control function (see CTRL MODE).
   - in Groove Station mode: Looper Record / Play / Dub / Undo (see GROOVE STATION).
10. **Footswitches A + B simultaneously:**
    Press both footswitches to open Bank selection mode and scroll down through the banks (see Banks).
    Hold both footswitches to open Tuner mode (see Tuner).
11. **Footswitch B:**
    - in Preset Mode: switches to Preset B in the selected bank
    - press again to enter CTRL mode
    - in CTRL mode: executes pre-programmed control function (see CTRL MODE).
    - in Groove Station mode: Looper Stop / Delete (see GROOVE STATION).
12. **Footswitch C:**

- in Preset mode: switches to Preset C in the selected bank
- press again to enter CTRL mode
- in CTRL mode: executes pre-programmed control function (see CTRL MODE).
- in Groove Station mode: Tap Tempo Input for Drum Machine (see GROOVE STATION).

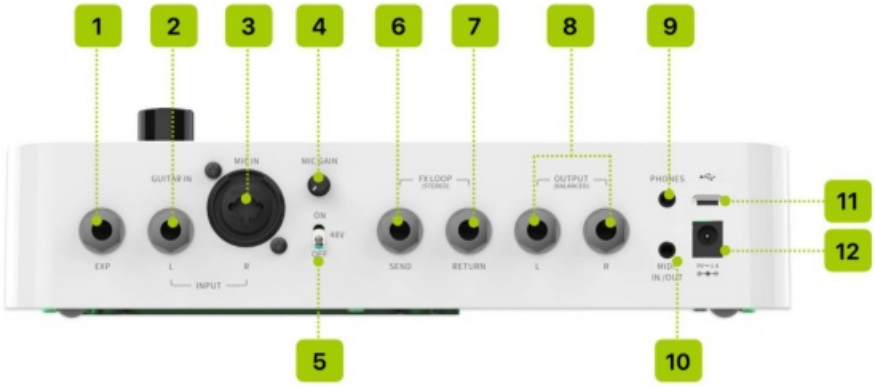
13. **Footswitches C + D simultaneously:**
    Press both footswitches to open Bank selection mode and scroll up through the banks (see Banks).
    Hold both footswitches to open Groove Station Mode (see GROOVE STATION).
14. **Footswitch D:**
    - in Preset mode: switches to Preset D in the selected bank
    - press again to enter CTRL mode
    - in **CTRL mode:** executes pre-programmed control function (see CTRL MODE).
    - **in Groove Station mode:** Switches Drum Machine on/off (see GROOVE STATION).

CONNECTIONS

1. **EXP:** 1/4″ stereo TRS jack for connecting an external expression pedal (please use a TRS expression pedal with a resistance range of 10 – 100 kΩ – see Expression Pedal).
2. **GUITAR IN** / **INPUT L**: 1/4″ mono audio jack, input for your guitar or bass instrument. Left input jack for a stereo configuration.
3. **MIC IN** / **INPUT R**: 1/4″ and XLR composite jack. Connect a microphone using an XLR connector or connect an instrument / line signal using a 1/4″ connector. Right input jack for a stereo configuration.
4. **MIC GAIN**: Gain adjustment knob for the microphone input.
5. **48 V**: Phantom power toggle switch for microphone input.
6. **FX LOOP SEND**: 1/4″ stereo audio jack. Connection to the input of external effects. Connecting an external stereo device requires the use of a TRS to double-ended TS adapter cable (shown below).
7. **FX LOOP RETURN**: 1/4″ stereo audio jack. Connection from the output of external effects.
   Connecting an external stereo device requires the use of a TRS to double-ended TS adapter cable (shown below).

   (TRS to double-ended TS adapter cable)
8. **Output connectors (left/right):** 1/4″ balanced TRS audio jacks. Connect a 3-conductor (TRS) cable to transmit a balanced signal. Connect a 2-conductor (TS) cable to transmit an unbalanced signal. Connect this jack to the input of an amplifier, another effects unit or any other audio device.
9. **Phones:** 1/8″ stereo headphone output jack
10. **MIDI IN/OUT**: 1/8″ TRS MIDI connector to connect to an external device that can control the GS1000 or a device that can be controlled by the GS1000.
11. **USB Type C interface:** Connection to a computer for USB audio functions or to use supported software for parameter editing or firmware updates (see USB Audio, see MOOER Studio).

12. **9 VDC power input**: Connect the supplied power supply adaptor.



TERMINOLOGY

This section explains the terminology used in the manual. Understanding the terminology will help you understand the contents of the manual.

Preset:

- A pre-programmed sound configuration, usually including settings for effects used in the effects chain and their parameters.
- A preset is stored in a storage slot indicated by a bank number (01 – 50) followed by a preset letter (A-D). The 4 presets in each bank can be selected with the A, B, C or D footswitches.

Effects chain:

- The sequence of effects a signal has to pass through within the GS1000 to get from the inputs to the outputs

Effect module:

- The general category of effects models that can be positioned in the effects chain, such as AMP (amp modules), CAB (cabinet simulation modules), REVERB (reverb modules) and so on.

Effect type:

- A specific effect within an effect category, such as “Red Compressor” in category “DYNA”.

Effect slot:

- An empty position in the effects chain is shown as a . Click the symbol to load an effect in this position.

Stage View:

- Main interface mode showing information that facilitates stage performance and highlights preset numbers and names to provide for good visibility.

Edit View:

- Main interface mode for sound editing, showing the selected preset, the composition of the effects chain, the status of effect modules in the chain, the preset-based volume level, the current BPM settings and input/output levels. It also shows the battery status for the GS1000 Li and provides access to other settings menus.

Stompbox control mode (CTRL Mode):

- Mode for directly controlling the on/off status of up to four effect modules in the effects chain or the tap tempo for selected parameters using the four footswitches in the lower row.
  This mode also allows for complex configuration changes with a single step on a footswitch (SUBPATCH switching). The footswitches can each be individually programmed for their specific CTRL function. (See CTRL Mode.)

Groove Station:

- Mode that combines controls for a Dum Machine and Phrase Looper functions. Drum Machine and Looper can also be synchronized in this mode. (See GROOVE STATION.)

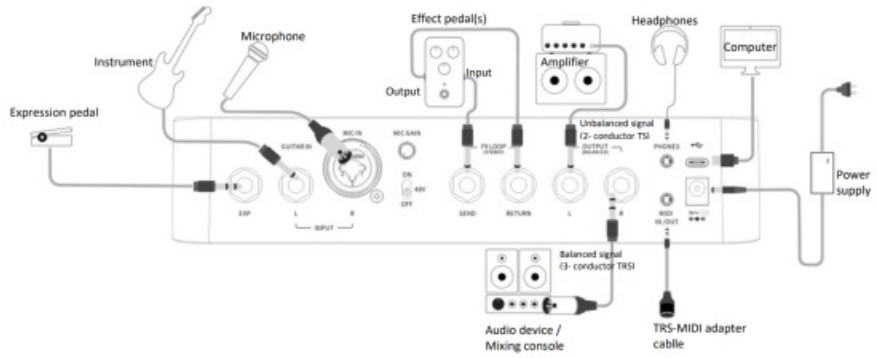
MNRS Profiling:

You can use the Mooer Non-linear Response Sample technology to capture the sound characteristics of your favorite physical equipment using the Profiling function of the GS1000.
This supports various capture modes for stompboxes (i.e. distortion / overdrive), preamps, combo amps or speaker cabinets.

Node

- Nodes are points in the effect chain where the signal can be routed into two separate chains or combined from two chains into one (depending on the signal routing structure you have configured).
- There are “split nodes” which separate signals and “mix nodes” which combine signals.
  Depending on the usage scenario, several parameters can be adjusted for the individual nodes.

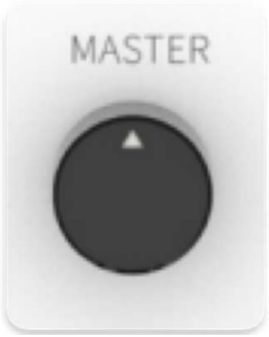
CONNECTION DIAGRAM



QUICK START

Start up

- Connect the inputs and outputs of the device as required according to the connection diagram above.
- Turn the MASTER volume knob down to minimize the output volume.
- Connect the included power supply (the GS1000 Li can operate on battery power) and turn the device on by pressing the Power switch.
  The display shows a boot-up screen for a few seconds.
- After the boot sequence is completed and the screen shows the main user interface, adjust MASTER volume to the appropriate volume.
  MASTER volume knob



Power switch

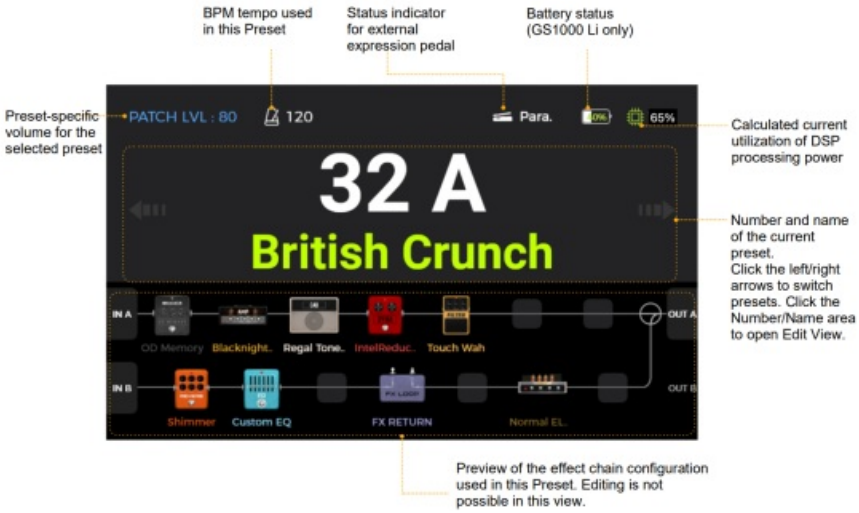
Main user interface

The GS1000 comes with two types of main interfaces: the STAGE VIEW and the EDIT VIEW.
You can use the HOME button to switch between the two views.

Stage View

This interface highlights number and name of the selected preset, making it easy for players to keep track of the currently selected sound during live performances.
We have designed two different versions of the STAGE VIEW: the “Detail” mode, showing number and name of the selected preset as well as a graphic representation of the effects chain, and the “Large” mode, showing only the number and the name of the preset for better visibility on stage.
You can select your preferred view under “Settings – Preference”. (See Stage View display)

- **Stage View: Detail mode**



- **Stage View: Large mode**

Touch the left/right arrows in the screen or rotate the SELECT knob to switch presets in this screen.
After start-up, the device defaults to display the main interface. Touch the screen or press the SELECT knob or the HOME button to enter the main editing interface (Edit View)

Edit View

- Almost all control functions of the GS1000 are concentrated in the EDIT VIEW user interface screen.
  This is where you access effect parameters for editing, bring up a list of presets, save presets, adjust global inputs and outputs, and open the Groove Station or the Tuner, or access system settings and other features.

Preset selection

A preset is identified by its bank number (01-50), followed by a letter (A-D).
The ambient light strip above the A/B/C/D footswitches indicates the currently selected preset. There are several ways to select a preset after the pedal has powered up:

1. In Stage View: click the left/right arrows on both sides of the screen.
2. In any of the main interfaces (Stage or Edit view): rotate the SELECT knob to select a preset.
3. In Edit View: Click on the preset name area in the upper left corner to expand the list and select a preset.
4. Directly switch between the four presets in the current bank using the A/B/C/D footswitches when the pedal is in regular operation mode (The LED strip is lit above one of the four footswitches).

Bank Switching

- Step on A+B or C+D simultaneously to open the bank selection screen.

  The screen shows two banks with four presets each.

  The blinking bottom row indicates the currently selected bank.
- Switch to the previous bank by stepping on the A+B footswitches simultaneously.
- Switch to the next bank by stepping on the C+D footswitches simultaneously.
- You can also rotate the SELECT knob to select a bank.
- Hold A+B or C+D down for accelerated browsing through the banks.
- Press one of the A/B/C/D footswitches to select a preset from the selected bank and switch back to the main screen.

FCC Warning Statements

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 This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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Documents / Resources

	MOOER GS1000 Intelligent Amp Profiling Processor [pdf] Owner's Manual GS1000, GS1000 Intelligent Amp Profiling Processor, Intelligent Amp Profiling Processor, Amp Profiling Processor, Processor

References

- **User Manual**