©Cherub Technology Co., Ltd.
All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Cherub Technology Co., Ltd.

Made in China

NUX

MG-300 MKII
MODELING GUITAR PROCESSOR

User Manual



〈 2.4" LCD 〉
320 x 240 color LCD with intuitive UI

〈 32-bit AD/DA 〉
48 kHz, 32-bit AD/DA sampling rate

〈 OTG 〉
Guitar Livestreaming Rig

TS/AC HD CORE IMAGE | High-definition White-Box Amp Modeling
Core-Image post-effects

www.nuxaudio.com

Copyright

Copyright 2024 Cherub Technology Co. All rights reserved. NUX and MG-300 MKII are trademarks of Cherub Technology Co. Other product names modeled in this product are trademarks of their respective companies that do not endorse and are not associated or affiliated with Cherub Technology Co.

Accuracy

Whilst every effort has been made to ensure the accuracy and content of this manual, Cherub Technology Co. makes no representations or warranties regarding the contents.

WARNING!-IMPORTANT SAFETY INSTRUCTIONS BEFORE CONNECTING, READ INSTRUCTIONS

WARNING
To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION
To reduce the risk of fire or electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel.

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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: 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. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.



The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

1. Use only the supplied power supply or power cord. If you are not sure of the type of power available, consult your dealer or local power company.
2. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
3. Guard against objects or liquids entering the enclosure.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
5. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
6. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and at the point where they exit from the apparatus.
8. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening".

Follow all instructions and heed all warnings
KEEP THESE INSTRUCTIONS!

Overview

Introducing the NUX MG-300 MKII, the evolution of our acclaimed multi-effects unit designed for the discerning musician. MG-300 MKII Building upon the legacy of the original MG-300, the MKII version elevates your sonic experience, incorporating advanced technology and expanded features for an even richer, more versatile performance. This compact powerhouse is the result of our continuous pursuit of perfection, offering both beginners and seasoned professionals an affordable, high-quality solution that doesn't compromise on sound or functionality.

The MG-300 MKII is your all-encompassing partner for practice, performance, and recording.

* This is a quickstart guide to get you up and running. For more in depth info and advanced tips and tricks, please visit the MG-300 MKII product page and Facebook discussion group.

What's New?

Expanded and Upgraded I/O	The MG-300 MKII introduces a modernized connectivity framework, including the addition of a USB-C port. This ensures seamless integration with music production software and a smoother overall user experience. Additionally, the unit now features a Phones jack that supports TRRS connections, accommodating headphones with microphones.
Live Streaming Uses	The MG-300 MKII enhances live streaming with its TRRS-supported Phones jack, allowing easy integration of headsets with microphones for interactive sessions. With a USB-OTG adapter, connect directly to smartphones for seamless streaming. Tailor your sound with dedicated microphone level controls and a noise gate feature, ensuring clear, professional audio delivery.
Shimmer Reverb	This new reverb creates ethereal, spacious soundscapes that elevate your music. Whether you're adding depth to your live streams or enriching your recordings, the Shimmer reverb brings a new dimension of auditory experience to the MG-300 MKII.
More User IR Slots	The MG-300 MKII expands your creative possibilities with increased User IR (Impulse Response) slots, now offering 24 free slots. This upgrade allows for greater customization and flexibility, letting you tailor your sound with a broader array of cabinet simulations.
Fully Customizable Signal Block Routing	This feature allows you to freely position effects and amp blocks in any order, providing unprecedented control over your signal chain. Whether you prefer your reverb before the amp for lush soundscapes, or a compressor at the end for consistent dynamics, the MG-300 MKII's flexible routing unlocks endless possibilities for crafting your ideal sound.
Pro Scene Selection	Elevating the flexibility of performance setups, the MG-300 MKII introduces the Pro Scene Selection feature. This innovative functionality allows you to navigate through three distinct scenes within a single preset—each scene offering a unique sound configuration. You can easily assign the footswitches to toggle between these scenes and other presets through the global menu. This capability simplifies managing complex setups, providing instant access to three varied tonal options in just one preset, making it ideal for live performances where quick sound changes are crucial.

Operation

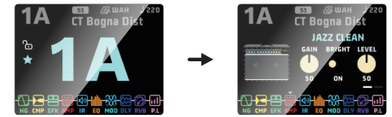
FRONT PANEL



Number	Name
❶	EDIT/EXIT Button
❷	SAVE Button
❸	MODE Button
❹	JAM Button
❺	TAP Button
❻	PEDAL Button
❼	LEFT & RIGHT Buttons
❽	PAGE Button
❾	SELECT Knob
❿	Knob 1\2\3
⓫	FOOTSWITCHES
⓬	Expression Pedal
⓭	LCD Display Screen

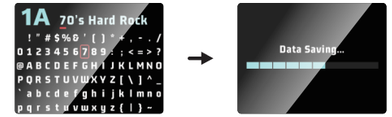
EDIT/EXIT Button

In PRESET mode, press the **EDIT/EXIT button** to access AMP editing where you can adjust parameters. Press **EDIT/EXIT button** again to return to PRESET mode.

Preset Mode


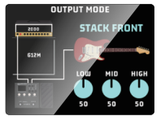
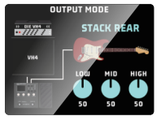
SAVE Button

Under PRESET mode or editing mode, press **SAVE button** to save the current patch.

Save Preset


MODE Button

Press the **MODE button** to access OUTPUT MODE. Use the **SELECT knob** to navigate and choose settings; a short press on **SELECT knob** recalls the default parameters of the global EQ. Adjust the LOW, MID, and HIGH frequencies using **Knob1/2/3,** respectively.

Studio Direct	Combo Front	Stack Front	Combo Rear	Stack Rear
				
In this mode, you can connect the MG-300 MKII directly to a mixer, active speakers, and an audio interface.	Select this mode when using the front instrument input (front of amp) on a combo amplifier.	Select this mode when using the front instrument input (front of amp) on an amplifier head.	Select this mode when using the FX LOOP (Return) input on a combo amplifier.	Select this mode when using the FX LOOP (Return) input on an amplifier head.

JAM Button

Press the **JAM button** to access the drum and loop functions. Simultaneously, press the **CTRL/PAGE button** to navigate to the second page where you can adjust LOOP options and DRUM EQ settings. Use the **SELECT knob** and **Knobs 1**, **2**, and **3** to modify the corresponding parameters.

Loop & Drum



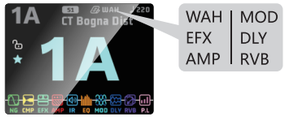
TAP Button

In PRESET mode, pressing the **TAP button** sets the current BPM as the reference for the Delay Subdivision (DLY SUB D). In JAM mode, tapping the **TAP button** adjusts the drum machine's tempo.

PEDAL Button

Press the **PEDAL button** to select the EXP control block: choose from WAH, EFX, AMP, MOD, DLY, RVB.

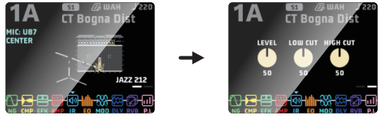
EXP Control Block



PAGE Button

In editing mode, certain effects models, amplifier models, and function menus might have multiple adjustable parameter pages. To switch between pages, simply press the **PAGE button** once.

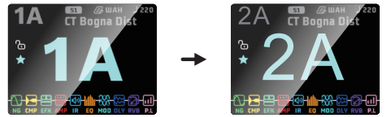
Flipping Pages



LEFT & RIGHT Buttons

In PRESET mode, quickly navigate through patch groups 1 to 9 by pressing the **LEFT** or **RIGHT button**. For instance, if you're on patch 1A and press **RIGHT button**, the display will flash to 2, and another press will flash to 3. Pressing the **UP footswitch** immediately jumps you to patch 3A.

Switch Preset



In EDIT mode, use the **LEFT** or **RIGHT button** to select and adjust parameters of the block highlighted in BLUE. A short press of the **SELECT button** toggles the current block on or off. For rearranging the block order, long press **SELECT button** until the target turns RED, then use **LEFT** or **RIGHT button** to move the block.

Select Block



FOOTSWITCHES

The MG-300 MKII enhances its footswitch functionality with the addition of Scene Selection, allowing for seamless preset navigation. You can effortlessly switch between presets (e.g., 1A→1B→1C) and scenes (e.g., S1→S2→S3). For streamlined operation, you also have the option to simplify your setup by excluding the third scene, enabling straightforward A/B sound switching.

TUNER

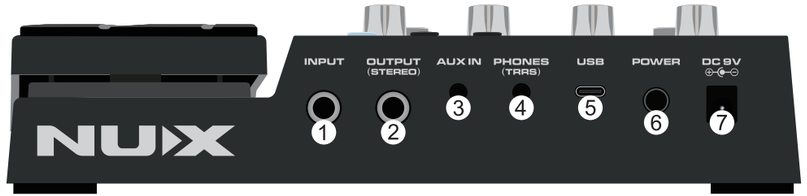
Before you start playing, ensure your guitar is in tune. Simply press the **UP** and **DOWN footswitches** together to activate the chromatic tuner and adjust as needed.

Sharp	In tune	Flat
		

SELECT knob & knob 1 knob 2 knob 3

When you enter the edit mode by pressing the **EDIT/EXIT button** on the MG-300 MKII, use the **SELECT knob** to navigate and choose the model within the current block. A short press of the **SELECT knob** toggles the current block on or off. Additionally, adjust the relevant parameters using **Knob 1**, **Knob 2**, and **Knob 3**. To access different pages, simply press the **CTRL/PAGE button**.

REAR PANEL



Number	Name
❶	INPUT
❷	OUTPUT
❸	AUXILIARY INPUT

❹	PHONES (TRRS)
❺	USB-C PORT
❻	DC POWER SWITCH
❼	DC Jack

INPUT

6.35 mm (1/4-inch) mono instrument jack input.

OUTPUT

6.35 mm (1/4-inch) main stereo output. (Please check the "Output Button to learn more about the output modes).

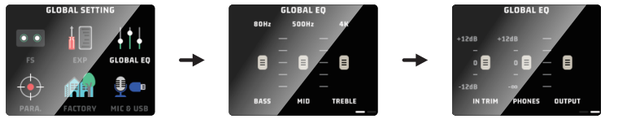
AUXILIARY INPUT

3.5 mm (1/8-inch) stereo input for external music player connection.

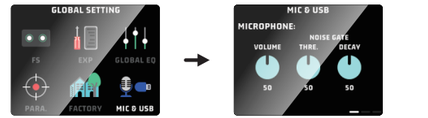
PHONES (TRRS)

3.5 mm (1/8-inch) TRRS connection for headphones with microphones.

EQ Settings



Mic Volume Settings



USB-C PORT

You can connect the MG-300 MKII to your computer to create, customize, and save your presets with the **Quicktone™** Desktop Editor Software. For more details, please visit **nuxaudio.com,** which also provides information regarding future firmware updates.

To update the firmware, follow these steps: First, ensure that the pedal is in update mode. Connect the Input jack and the USB cable, then press and hold both footswitches (Bank DOWN/Bank UP). While maintaining this hold, press the power button.

⚠ **REMEMBER** to always back up your presets whenever you do a firmware update!

*Please visit **nuxaudio.com** and download the product update guide sheet on the MG-300 MKII product page.

For issue replies and questions, please offer this information, it will be helpful for us to figure out. Post the following information to the official NUX MG-300MKII Facebook Group.

1	Firmware version before Firmware Update
2	DFU Updater version
3	PC OS version (for example, MAC Big Sur 11.0.1)

4	Current Firmware Version which has issues
5	Issue description
6	Screenshot of QuickTone™ connection or issue video

The MG-300 MKII also works as an audio interface. Just connect the MG-300 MKII to your computer via USB-C, select the MG-300 MKII as the main I/O device on your digital audio workstation (DAW), and you're good to go! You can also select which input routing setting you want to go with in the Quicktone™ Desktop Editor Software.

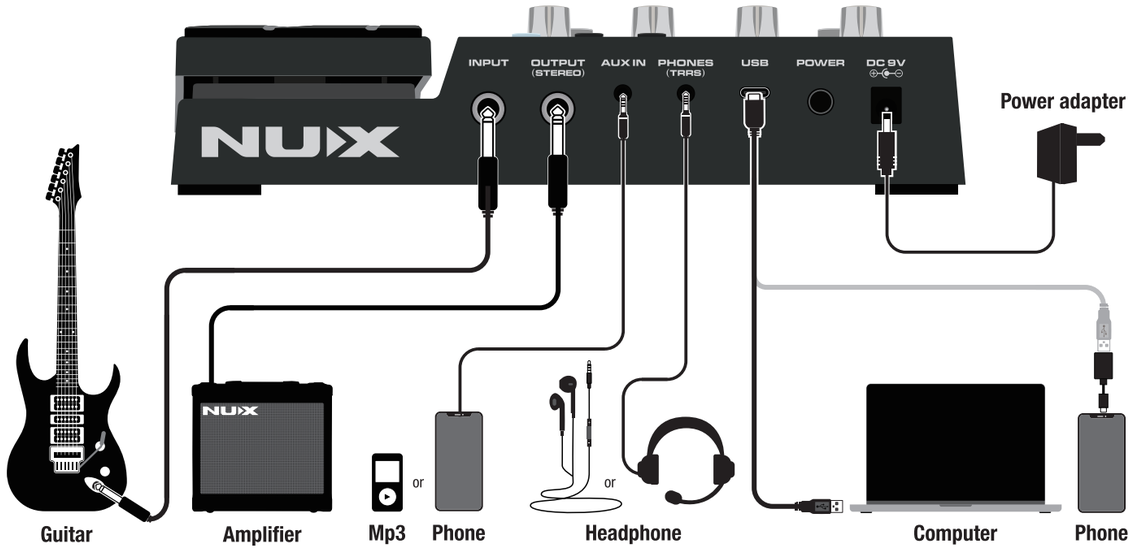
The MG-300 MKII streamlines your recording and streaming workflow with four tailored connection modes. Use NORMAL for direct recording, REAMP to tweak tracks later with different tones, DRY OUT for recording clean DI and processed signals simultaneously, and USB Loopback to easily include backing tracks in live streams. Each mode is crafted to simplify your process, letting you concentrate on making music.



DC JACK
Connect the included adaptor (ACD-006A) to the jack.

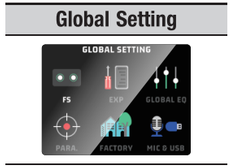
DC POWER SWITCH
Turn ON / OFF MG-300 MKII with the switch.

DEVICE CONNECT

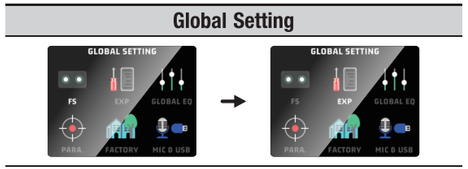


SYSTEM MENU
In this section, we'll delve into the details of the SYSTEM MENU, which is designed to be intuitive and user-friendly. Simply follow the on-screen prompts to navigate and operate it with ease.

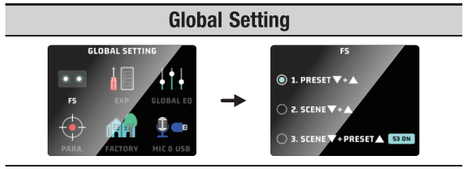
Enter/Exit GLOBAL SETTING
Press **EDIT/EXIT button & SAVE button** to enter GLOBAL SETTING; Press **EDIT/EXIT button or SAVE button** to exit GLOBAL SETTING.



Select the Item
You can rotate the **SELECT knob** or use the **Left and Right buttons** to select the item you want to enter.



Enter/Exit Item
After selecting the project, short press the **SELECT knob** to enter the project, and short press the **EDIT/EXIT button** to exit the project and return to the GLOBAL SETTING.



FS (Foot Switch Setting)

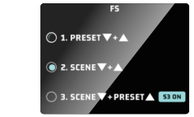
In this section, the MG-300 MKII introduces flexible footswitch assignments with the new Pro Scenes feature. You have three options for tailoring the footswitch functionality to your needs:

- Preset Up and Down: Simplify preset navigation, allowing quick switches between presets.
- Scene Up and Down: Navigate through three scenes within a preset for layered sound changes.
- Scene Down and Preset Up: This hybrid setting lets you access different presets while managing scenes within them. Additionally, you can deactivate Scene 3 for straightforward A/B sound switching between Scene 1 (S1) and Scene 2 (S2).

Preset



Scene



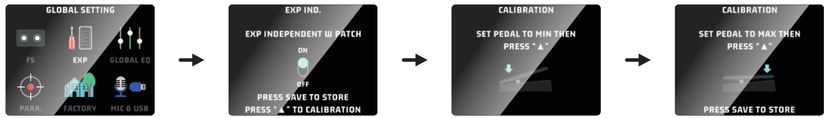
Preset + Scene



EXP

The "EXP Independent with patch" setting functions similarly to a physical expression pedal: once activated, it remains engaged across different patches, providing consistent control regardless of patch changes.
Pressing the **PRESET UP button** accesses the EXP CALIBRATION mode.

EXP Calibration

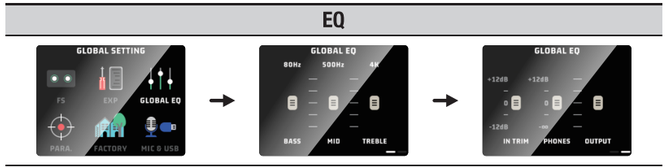


⚠ **Remember to** do EXP CALIBRATION after you do FIRMWARE UPDATE.

GLOBAL EQ

The GLOBAL EQ section on the MG-300 MKII offers essential controls to shape your overall sound, including adjustments for input trim, and volume levels for both the headphones and main outputs. This feature allows you to fine-tune your audio output to perfection, ensuring a balanced sound across all playing environments.

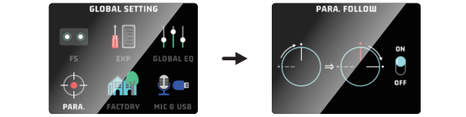
EQ



PARA. (PARALLEL FOLLOW)

Enhance your effects management with the PARA. FOLLOW feature on the MG-300 MKII. When enabled, PARA. FOLLOW remembers the settings of any effects model when you switch away from it and reinstates them upon your return. Disabling PARA. FOLLOW will reset the effects to their default parameters each time you select a model.

PARA.



FACTORY

The Factory section of the MG-300 MKII menu includes options for a factory reset, which restores the device to original settings, and a hardware inspection to ensure all components are functioning properly, maintaining optimal performance.

FACTORY



USB

The USB sub-menu on the MG-300 MKII allows for detailed audio adjustments. Here, you can modify microphone settings for TRRS headphones, control the volume of Aux In sources, and tweak USB audio settings to optimize your recording or streaming setup.

MIC & USB



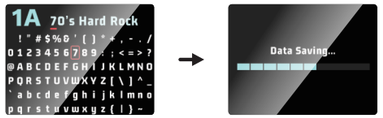
QuickTone™

You can enhance your MG-300 MKII experience by downloading the QuickTone™ editor from the product page. This powerful tool allows you to tweak parameters, reorder effect blocks, organize Pro Scenes, and manage patches through saving, importing, and exporting. Additionally, you can import Impulse Responses (IRs) and configure USB routing, all within the intuitive QuickTone™ interface.

SAVE YOUR PRESETS!

Once you've crafted your desired tone, it's essential to remember to save it before switching presets. Click the **SAVE button**, which also enables you to edit the preset name. Here's how to customize your preset name:
Using the **SELECT knob** choose the desired letter.
Utilize the **LEFT and RIGHT buttons** to navigate to the next or previous space for precise naming.

Save Preset



Features

- NG, CMP, EFX, AMP, IR, EQ, MOD, DLY, RVB, P.L | 10 independent signal blocks.
- White-box Amp Modeling & Pre-efx algorithm (TSAC-HD) offers realistic playability and analog-chaos response.
- 512 samples IR resolution and USER slot with each patch. (additional 24 IR COLLECTION slots)
- 25 classic electric guitar amp models offer various music styles.
- Input trim with Global EQ under SYSTEM MENU.
- PARA. FOLLOW function to track your effect tweaking habits.
- 5 output modes with 3 band EQ for quick tone tweaking. (Aside from STUDIO DIRECT, the others modes will disengage IR signal by default.)
- USB recording interface, firmware update, QuickTone™ edit software.
- TRRS headphones out support headset mic for live streaming. (OTG with the mobile device.)
- Phrase looper with auto tempo detection drum machine.

Specifications

Sampling Frequency	48kHz
AD Converter	32bit
Frequency Response	20Hz-20000Hz +1dB
THD+N	<1%
Dynamic	106dB
Input	+8dBu
Output	+8dBu
Power	DC 9V
Dimensions	241(L) x 160(W) x 49(H) mm
Weight	760g

*Specifications and features are subject to change without notice.

What's in the box?
MG-300 MKII x 1, Power adapter x 1, USB cable x 1, User manual x 1, NUX sticker x 1.