Owner's Manual

Version 1.0

Contents [hide]

MG-400 Guitar Modelling Processor

Copyright

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 nterference 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 n a particular nstallation.

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 n portable exposure condition without restriction.

⚡ The lightning symbol within a triangle means "electrical caution!" t 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 s 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".

<div align="center">

Follow all instructions and heed all warnings
KEEP THESE INSTRUCTIONS!

</div>

Introduction

NUX MG-400 is an affordable modeler inherited his little brother MG-300. MG-400 equips with 2 powerful DSPs for high-definition White-Box Amp Modeling algorithm (TSAC-HD) and Core-Image post-effects. Since we announced the best budget compact modeler MG-300, people were blown away by the sound and playability. Especially the easy tone tweaking and the intuitive interface. Based on MG-300's moveable signal blocks, 12 IR COLLECTION slots, flexible P.L block with MIN & MAX parameter setup, abundant SYSTEM MENU, and physical MASTER volume knob, MG-400 is now the best value modeler for the money.

*This is a quick manual to drive you quickly operate MG-400, f you are looking for deep information, please visit the product page and Facebook discussion group.
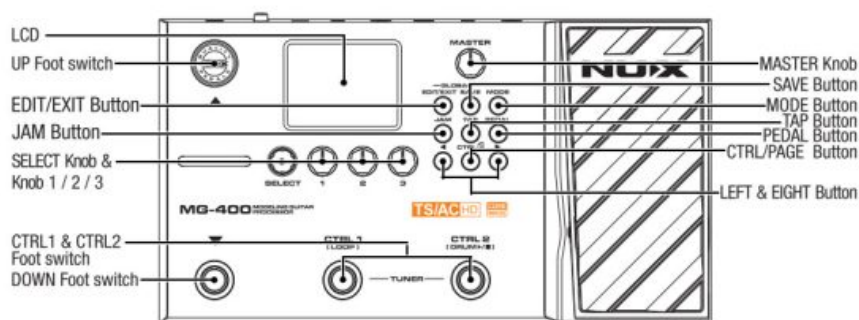
Features

- 2.8″ 320*240 color LCD with intuitive UI.
- NR, CMP, EFX, AMP, IR, EQ, MOD, DLY, RVB, PL I 10 independent moveable signal blocks.
- White-box Amp Modeling & Pre-efx algorithm offers realistic playability and analog-
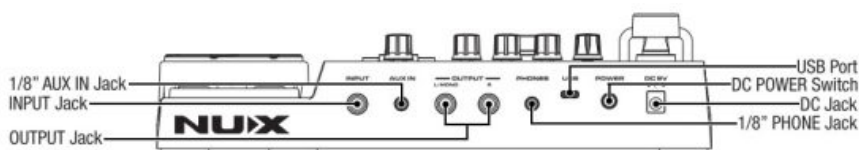
chaos response.

- 512 samples IR resolution and USER slot with each patch. (additional 12 IR COLLECTION slots)
- Electric guitar amp models, bass amp models, and acoustic simulation IRs with related acoustic amp models.
- Input trim under SYSTEM MENU.
- 5 output modes with global 3 band EQ for quick tone tweaking. (Besides STUDIO DIRECT, others will disengage IR signal as default.)
- PARA. FOLLOW function can track your effect tweaking habits.
- USB recording interface, firmware update, Quick Tone™ edit software.
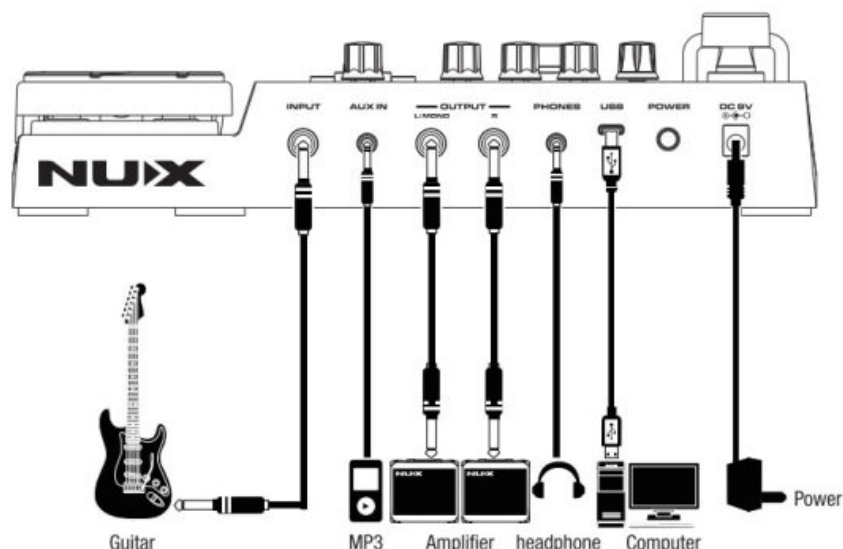
Panel Description

Front Panel

Rear Panel

Connection Panel Description

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

Turn ON I OFF MG-400 through the switch.

Connect the USB cable to computer for firmware update, USB recording, or Quick Tone™ edit software editing.

Note: Connect USB cable to computer, and hold DOWN & CTRL 1 footswitches to turn on MG-400, then you can enter to DFU (Device Firmware Update) mode to do firmware update. For more details, please visit product page to check the firmware update guide and download the newest firmware & Quick Tone™ edit software.

*For WIN, you can download the related ASIO driver from the product page. To avoid Quick Tone™ and USB audio stream connection issues, please unplug any other unnecessary USB MIDI devices or HUBs, and connect MG-400 directly to a USB port. If your laptop experiences connection issues, please try to update and reinstall the laptop's USB port driver or Windows Service Pack. MG-400 uses standard USB communication, there may be some interferences related to USB hardware and/ or

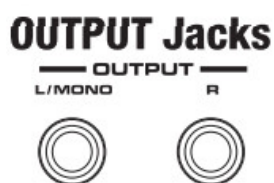HUBs, especially USB MIDI devices.

USB Port

USB

*For issue replies and questions, please offer this information, it will be helpful for us to figure out.

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 Quick Tone™ connection or issue video.

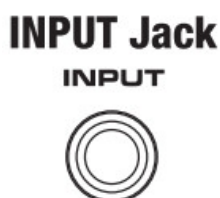Connect your headphone to the 1/8″ phone jack. The phone out is related to OUTPUT.

1/8" PHONE Jack

PHONES

L/MONO out is for mono, R out is for right side while stereo application.

OUTPUT Jacks

OUTPUT
L/MONO   R

Connect your MP3 player to the 1/8″ AUX IN jack for play back.

1/8" AUX IN Jack

AUX IN

Connect your guitar to INPUT jack.

INPUT Jack

INPUT

Operation

Control overall master volume of MG-400.

MASTER Knob

MASTER

Under PRESET mode, press EDIT/EXIT to enter to AMP editing, in the meantime, you can tweak parameters. Press EDIT/EXIT again, you can quit PRESET mode.

EDIT/EXIT Button

EDIT/EXIT

SAVE Button

SAVE

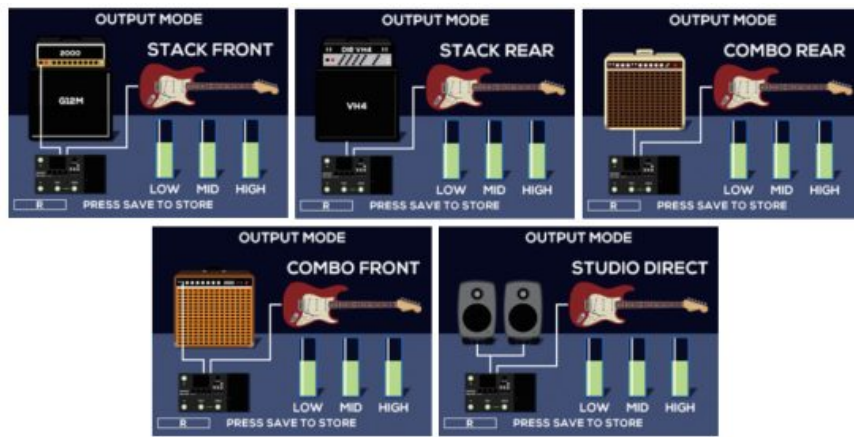Under PRESET mode or editing mode, press SAVE to save current patch.

3D 70's Hard Rock

```
! " # $ % & ' ( ) * + , - . /
0 1 2 3 4 5 6 7 8 9 : ; < = > ?
@ A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z [ \ ] ^ _
` a b c d e f g h i j k l m n o
p q r s t u v w x y z { | } ~
```

Press MODE button to enter to OUTPUT mode. Rotate SELECT knob to choose, short press SELECT can recall the global EQ default parameter. Knob1~knob3 can tweak LOW, MID, HIGH global EQ.

MODE Button

MODE

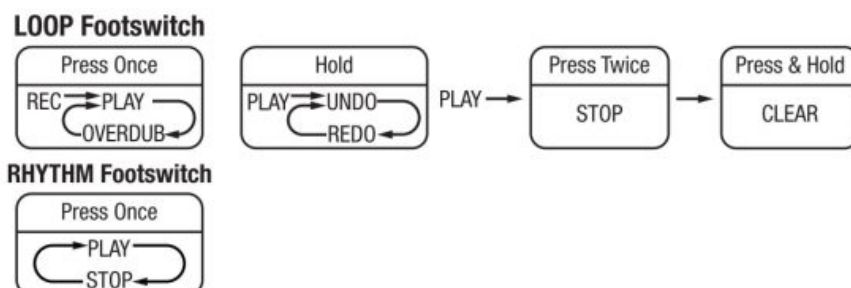Press EDIT/EXIT to quit OUTPUT mode.

JAM Button

JAM

Press JAM button to enter to drum & loop, in the meantime, press CTRL button to visit 2nd page for LOOP options and DRUM EQ tweaking. Rotate SELECT, KNOB 1, 2, 3 to tweak related parameters.

*You can choose STEREO / MONO loop. (Stereo is 30 seconds, mono is 60 seconds.)

*NR = Normal Recording, AR Auto Recording. NR works as regular loop function, while you press CTRL1 (LOOP) footswitch, it starts to record the phrase loop. AR will stand by while you press CTRL1(LOOP) footswitch, once you hit the strings, it will start to record your phrase loop.

Tap the TAP button under PRESET mode can assign current BPM for DLY SUB D. reference. Under JAM, tap the TAP button can assign DRUM speed.
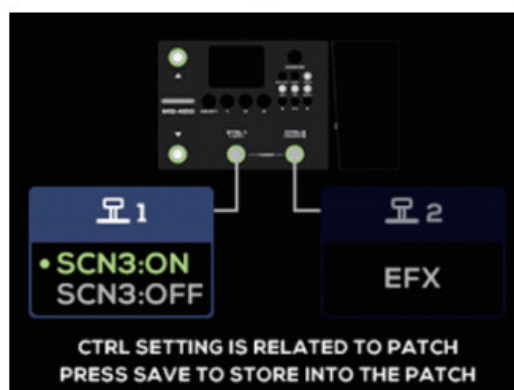
TAP Button

TAP

Press PEDAL button to choose EXP control block: WAH, EFX, AMP, MOD, DLY, RVB etc.

PEDAL Button

PEDAL

Under PRESET mode, press CTRL PAGE button to enter to CTRL SETTING.

CTRL/PAGE Button

CTRL

In the meantime, rotate and press SELECT knob to set up related CTRL footswitch assignment. Press EDIT/EXIT button to quit edit mode. You can save the CTRL assignment to current patch.

Under edit mode, press CTRL PAGE button to go to the next/previous page.

Under PRESET mode, press LEFT or RIGHT can go to 1~16 patch group quickly. For example, if you located in 1A currently, press RIGHT, then the digit flashes 2, press RIGHT again, it flashes 3. Once you press UP or DOWN footswitch, it will go to 3A immediately.
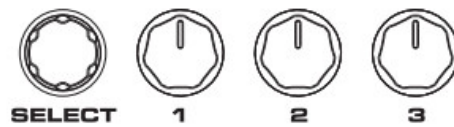
LEFT & RIGHT Button

Under edit mode, press LEFT or RIGHT to change the GREEN target block to tweak the related block parameters. If you short press SELECT to engage/disengage the current block. Long press SELECT, the target becomes RED, then you can press LEFT or RIGHT to move the block order.

Short press SELECT again, and the target goes back to GREEN.

SELECT Knob
& Knob 1 / 2 / 3

SELECT   1   2   3

While you enter to edit mode (press EDIT/EXIT button), you can rotate the SELECT knob to choose the model under current block, and short press SELECT knob to engage/disengage the current block. In the meantime, you can tweak KNOB 1/2/3 to adjust the related parameters. Press CTRL/PAGE button to go to different page.

Under edit mode, long press SELECT knob can change the target color. While it's in RED, you can press LEFT or RIGHT button to change the block order. Short press again, the target will go back to GREEN, in the meantime you can press LEFT or RIGHT button to choose different block for tone tweaking.
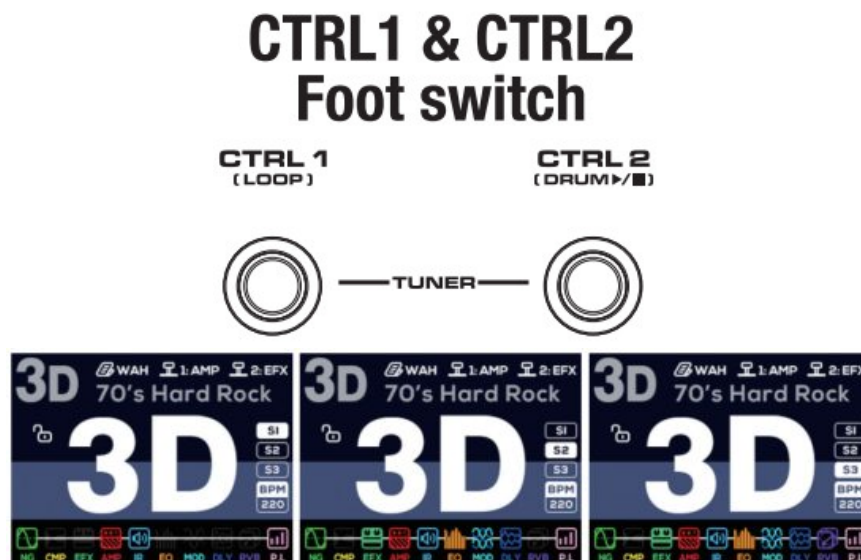
UP & DOWN
Foot switch

DOWN FOOT SWITCH: During preset display, press once can go 1 patch down.

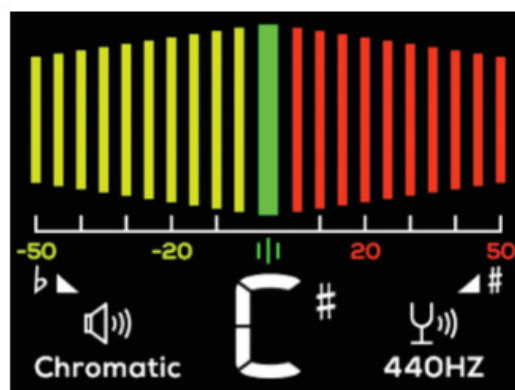UP FOOT SWITCH: During preset display, press once can go 1 patch up.

You can assign CTRL footswitch as TAP / CMP/NG/EFX/EQ/MOD/DLY/RVB / SCN. (Press CTRL/PAGE button to enter CTRL SETTING.) TAP means tap tempo. For other

signal blocks, it means you can engage/disengage by CTRL footswitch. SCN: Assigns CTRL as SCENE footswitch to switch S1/S2/S3 sequentially. (You can choose SCN3: OFF to avoid S3 and only toggle S1/S2.) For SCENE, you can engage/disengage signal blocks freely, and it keeps DELAY / REVERB trails when you disengage them with SCN CTRL.

Press CTRL1 & CTRL2 footswitches simultaneously, then you can enter to TUNER. In the meantime, short press SELECT to switch "Chromatic / Cmp G" tuning, rotate SELECT to switch "mute / monitoring", rotate KNOB2 to adjust A4: 430~450 Hz.

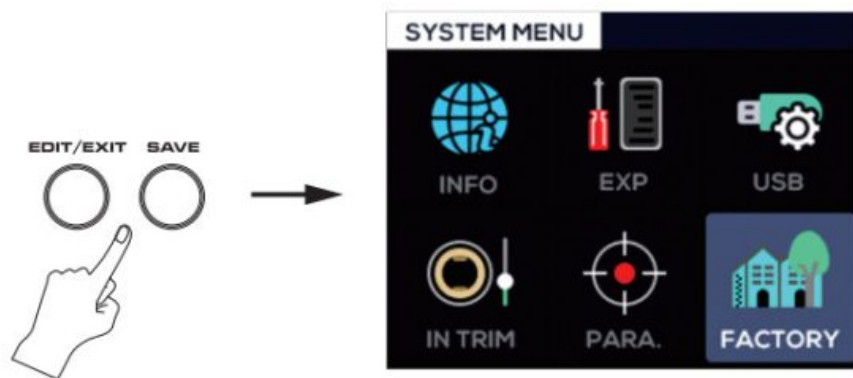**Note:** Camp G is guitar compensation tuning algorithm.

Press CTRL1 & CTRL2 footswitches again to exit TUNER. (Pressing EDIT/EXIT button also allows you to exit TUNER.)

System Menu

Here we will explain more details about SYSTEM MENU, actually it's very intuitive, you

can follow the UI to operate it easily.

Press EDIT/EXIT & SAVE buttons to enter to SYSTEM MENU.

Rotate SELECT or press LEFT & RIGHT button to select target function. Press EDIT/EXIT to quit. Short press SELECT to enter the target function.
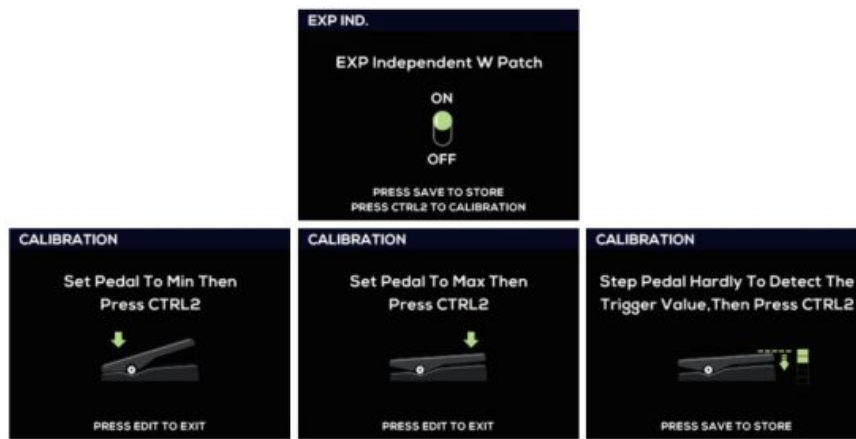
FACTORY

FACTORY RESET, GHOST BACKUP, GHOST RESTORE, SYSTEM INSPECTION.

After firmware update, remember to do FACTORY RESET to rearrange system data. GHOST BACKUP backs up all the system data into the device. If you experience any data errors or accidentally change/delete your data, you can do a GHOST RESTORE to restore all the presets you stored into GHOST BACKUP,

EXP

EXP Independent with patch means it's like a physical EXP pedal, while you engage it, it's always on even you go to another patch.
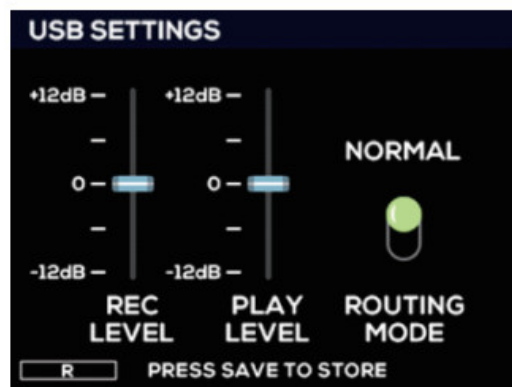
EXP CALIBRATION, just follow the instruction, you can do it easily.

"Remember to do EXP CALIBRATION after you do FIRMWARE UPDATE.

Short press EDIT/EXIT to quit SYSTEM MENU.

USB SETTINGS

Rotate SELECT to choose NORMAL/DRY OUT/REAMP, tweak KNOB1 for REC LEVEL, tweak KNOB2 for PLAY LEVEL. Short press SELECT to recall default parameter settings. Short press EDIT/EXIT to quit to SYSTEM MENU.
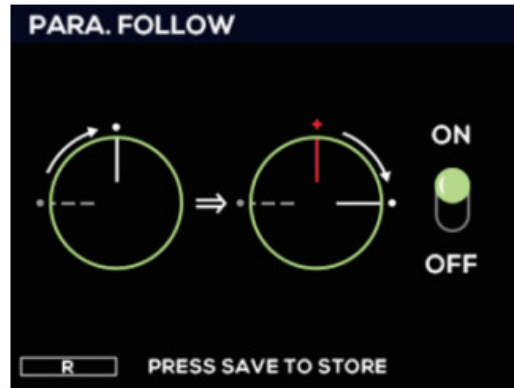

IN TRIM

You can tweak the input signal to adapt with stored patches.

PARA. FOLLOW

If you engage PARA. FOLLOW, while you leave the current efx model, MG-400 will remember the parameters while you choose the model again. If you turn off PARA. FOLLOW, while you choose the eFax model, it will use default parameters.

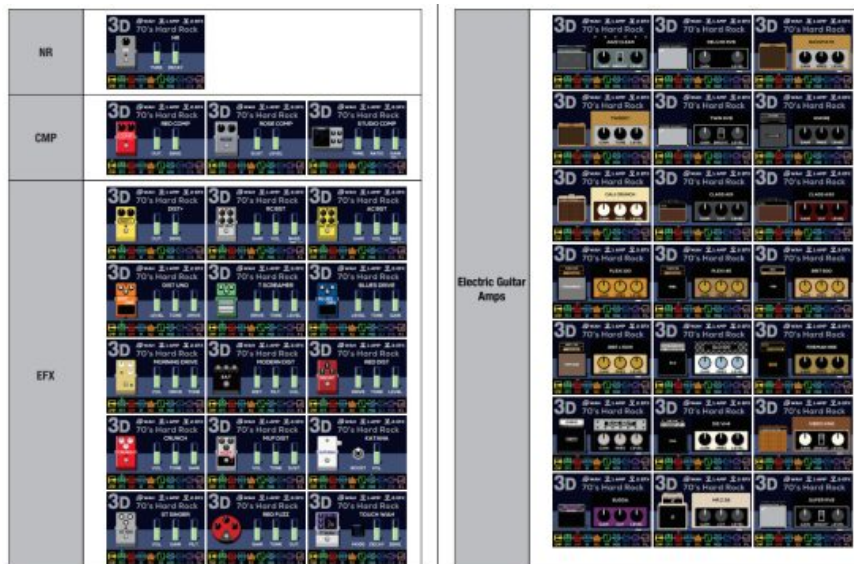## INFO

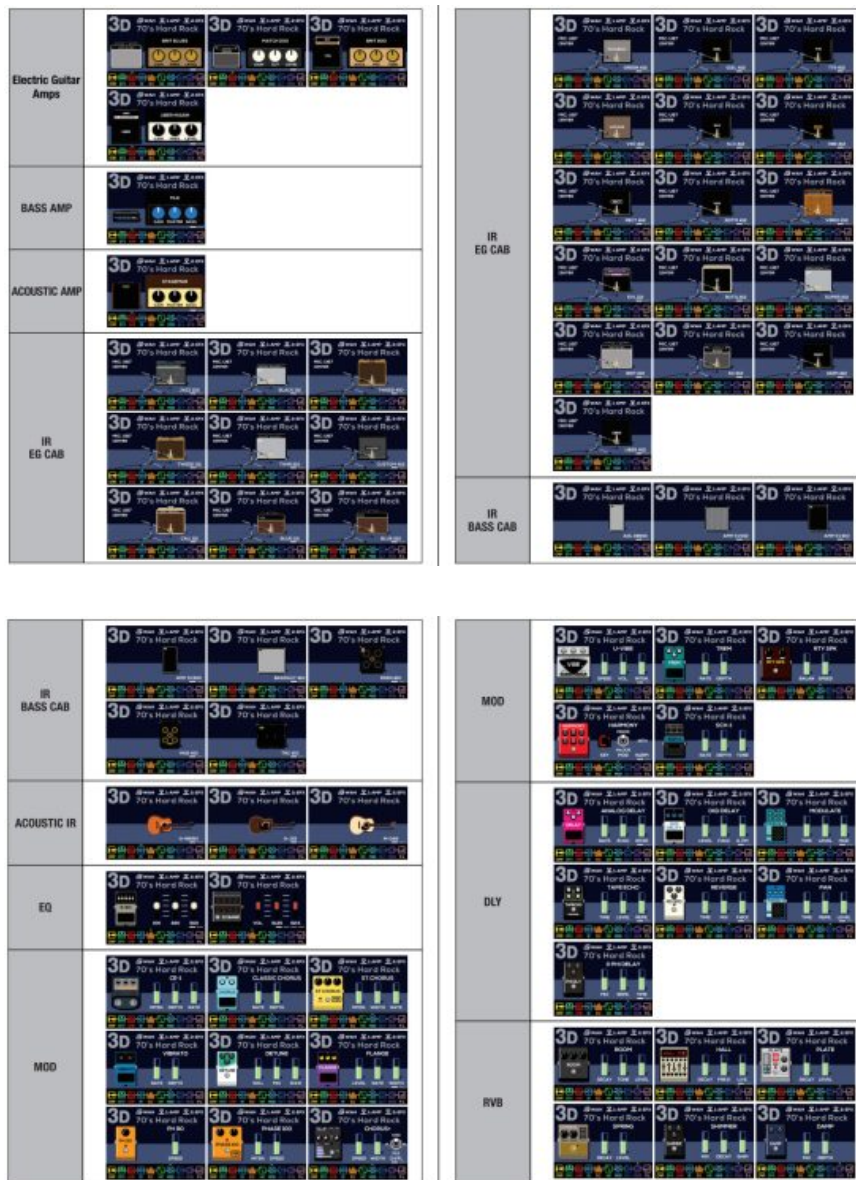You can check current firmware version here.

Quick Tone™ Editor

You can download Quick Tone™ Editor from the product page. Here, you can see the interface for tweaking parameters, dragging block order, set up SCN, save patches, load patches, export patches, load IRs, set up USB routing and CTRL SETTING on Quick Tone™.

For more details, you can check MG-400's tutorial videos on NUXEFX YouTube channel.

Reference

Specifications

- Input Impedance: 470k Ω
- AUX In Impedance: 1 Ok Ω
- Output Impedance: 1 k Ω
- Phone Impedance: 47 Ω
- Dynamic Range: 108 dB
- Sampling Rate: 48kHz I 32 bit
- System Latency: 1.1 ms
- Power: 9V DC (Negative Tip, additional ACD-006A adaptor)
- Current Draw: < 280mA
- Dimensions: 289mm(L) x 163mm(W) x 71 mm(H)
- Weight: 920g

*Specifications and features are subject to change without notice.

What's in the box: MG-400 x 1, Power Adapter x 1, USB Cable x 1, User manual x 1.

Designed and manufactured by

Cherub Technology Co.,Ltd.

Documents / Resources

	[NUX MG-400 Guitar Modelling Processor](#) [[pdf](#)] Owner's Manual MG-400, MG-400 Guitar Modelling Processor, MG-400, Guitar Modelling Processor, Modelling Processor, Processor

References

- [User Manual](#)

🏷 Guitar Modelling Processor, MG-400, MG-400 Guitar Modelling Processor, Modelling Processor, NUX,
📁 NUX   Processor

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