NUX

MG-101
Modeling Guitar Processor
User Manual

www.nuxaudio.com

CORE
IMAGE
TS/AC HD

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
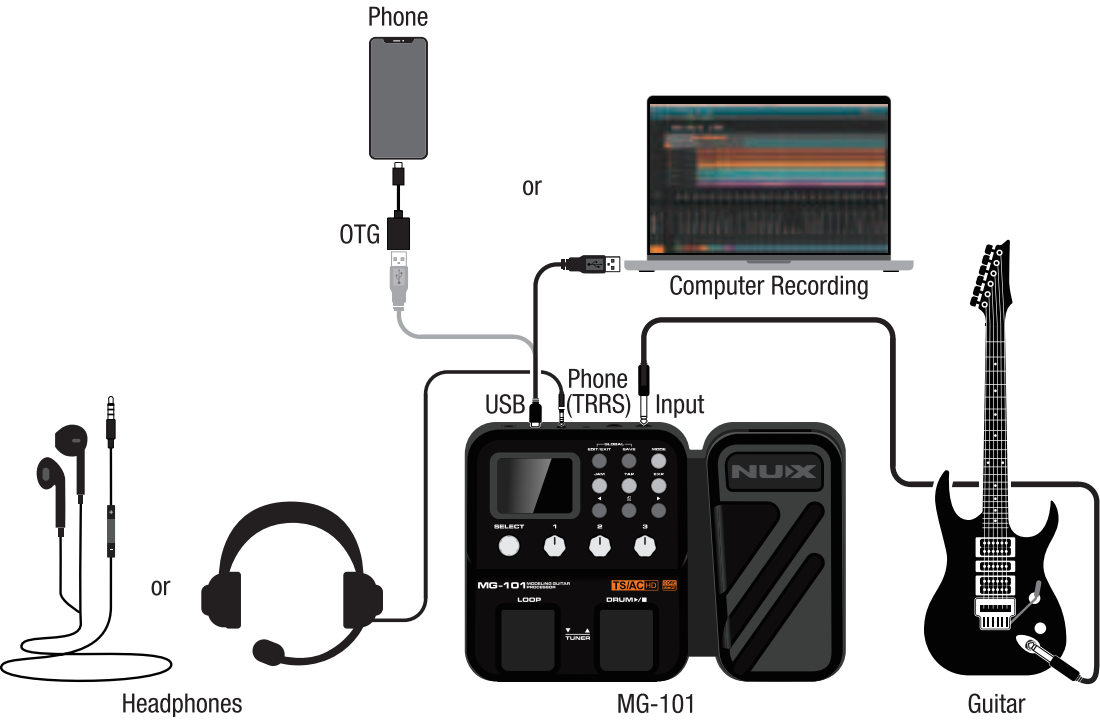**KEEP THESE INSTRUCTIONS!**

Overview

The NUX MG-101 is our entry level modeler. MG-101 includes a powerful DSP that drives our high-definition White-Box Amp Modeling algorithm (TSAC-HD) and Core-Image post-effects. Since we released our best selling compact modeler MG-300 a few years ago, people were blown away by the sound and playability, especially with the easy tone tweaking and the intuitive interface. And now, the MG-101 offers you: 10 signal blocks, 12 IR COLLECTION slots, P.L block with MIN/MAX and PRE/POST position setup, an abundant SYSTEM MENU, TRRS headphones out (which supports headset mic), and USB to OTG recording.

▌Features
- 2.4" 320*240 color LCD with intuitive UI.
- 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 12 IR COLLECTION slots)
- 25 classic electric guitar amp models offer various music style.
- 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.

This is a quick manual to drive you quickly operate the MG-101, if you are looking for deep information, please visit the product page and Facebook discussion group.

▎Device Connect

Phone

or

OTG

Computer Recording

Phone
(TRRS)

USB | Input

Headphones

or

MG-101

Guitar

Control Panel

Number	Name
❶	EDIT/EXIT button
❷	SAVE button
❸	MODE button
❹	JAM button
❺	Tap button
❻	EXP button
❼	LEFT button

Number	Name
❽	PAGE button
❾	RIGHT button
❿	SELECT knob
⓫	Parameter Adjustment knob
⓬	DOWN/LOOP FOOT SWITCH
⓭	UP/DRUM FOOT SWITCH
⓮	EXPRESSION PEDAL

EDIT/EXIT button

Under PRESET mode, press **EDIT/EXIT** button to enter to AMP editing, to adjust the parameters. Press **EDIT/EXIT** button again to quit PRESET mode.

SAVE button

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

SAVE
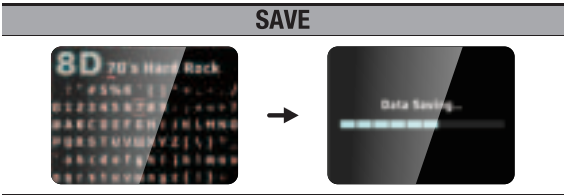
MODE button

Press **MODE** button to select the OUTPUT MODE. Rotate the **SELECT** knob to choose, then short press **SELECT** knob can recall the global EQ default parameter. **1~3 Parameter Adjustment** knob adjusts the LOW, MID, HIGH global output EQ parameters.

OUTPUT MODE

Press **EDIT/EXIT** button to quit OUTPUT MODE.

JAM button

Press the **JAM** button to enter to drum & loop, in the meantime, press the **PAGE** button to visit the 2nd , 3rd pages for additional DRUM options and DRUM EQ tweaking. Rotate **SELECT** knob, **1~3 Parameter Adjustment** knob to tweak related parameters.

LOOP & DRUM

• You can choose STEREO / MONO loop. (Stereo is 20 seconds, mono is 40 seconds.)

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

Press Once	Hold		Press Twice	Press & Hold
REC ⇄ PLAY / OVERDUB	PLAY ⇄ UNDO / REDO	PLAY →	STOP	CLEAR

● **DRUM footswitch** can trigger the drum machine under JAM function.

Press Once
PLAY / STOP
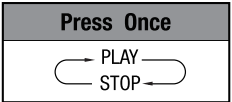
TAP button

Tap the **TAP** button under PRESET mode to assign a current BPM for DLY SUB D. reference. (The TAP button/indicator will flash 16 times to present the BPM speed.) Under JAM, the **TAP** button can set the DRUM tempo.

TAP
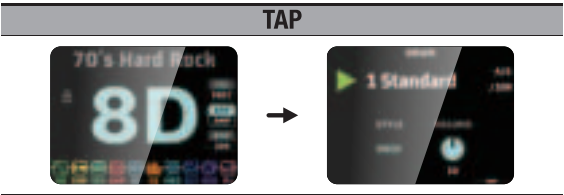
EXP button

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

PAGE button

While in Edit Mode, press the **PAGE** button to go to the next/previous page.

Page turning
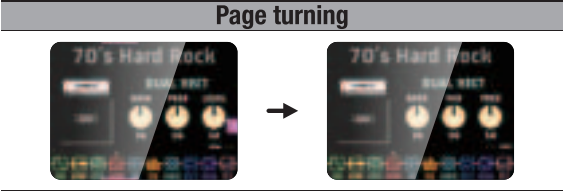
LEFT & RIGHT button

Under PRESET mode, press **LEFT/RIGHT** button can go to 1~9 patch group quickly. For example, if you located in 1A currently, press **RIGHT** button, then the digit flashes 2, press **RIGHT** button again, it flashes 3. Once you press **UP/DOWN footswitch**, it will go to 3A immediately.

Under edit mode, press **LEFT/RIGHT** button to change the GREEN target block to tweak the related block parameters.

EDIT MODE

Short press **SELECT** knob can engage/disengage the current block.

SELECT knob & 1/2/3 Parameter Adjustment knob

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

EDIT MODE
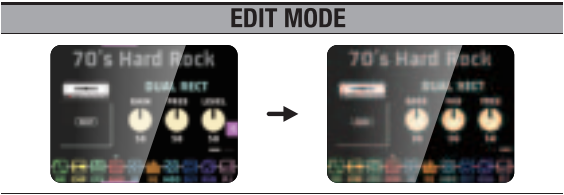
UP & DOWN FOOTSWITCHES

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.

Press **UP & DOWN footswitches** simultaneously, to access the on board TUNER. Short press **SELECT** knob to switch "mute / monitoring", rotate **SELECT** knob to switch "CHROM. / G CPS / G STD" tuning, rotate knob **3** to adjust A4: 430~450 Hz.
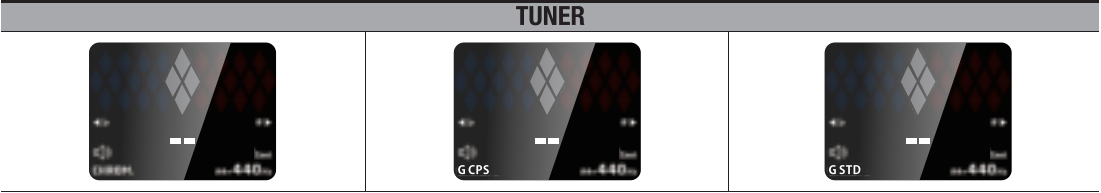
TUNER

Note: G CPS is guitar compensated tuning algorithm.

Press **UP & DOWN footswitches** again to exit TUNER. (Pressing **EDIT/EXIT** button also allows you to exit TUNER.)

Rear Panel
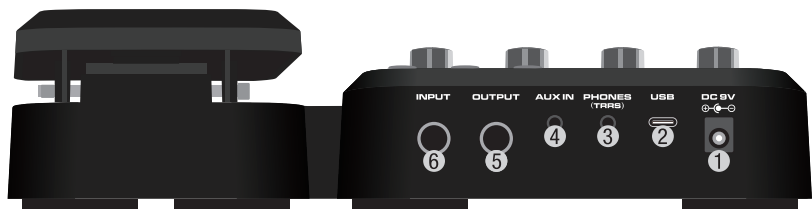
Number	Name
❶	DC 9V jack
❷	USB port
❸	PHONES jack

Number	Name
❹	AUX IN
❺	OUTPUT jack
❻	INPUT jack

DC 9V jack
Connect the included adaptor (ACD-006A) to the DC 9V jack.

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

Note: Connect USB cable to computer, and hold DOWN & UP footswitches to turn on MG-101, 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 & QuickTone™ edit software.

MG-101

Computer

*To avoid QuickTone™ and USB audio stream connection issues, please unplug any other unnecessary USB MIDI devices or HUBs, and connect MG-101 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-101 uses standard USB communication, there may be some interferences related to USB hardware and/ or HUBs, especially USB MIDI devices.

*For tech support issues and questions, please include the following information. This will help us identify the issue and offer a solution.

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.

PHONES jack
Connect your headphone to the 1/8" phone jack. The phones out support TRRS headset mic. It's convenient if you want to use MG-101 for live streaming.

You can adjust the phones level through GLOBAL SETTING -> GLOBAL EQ.
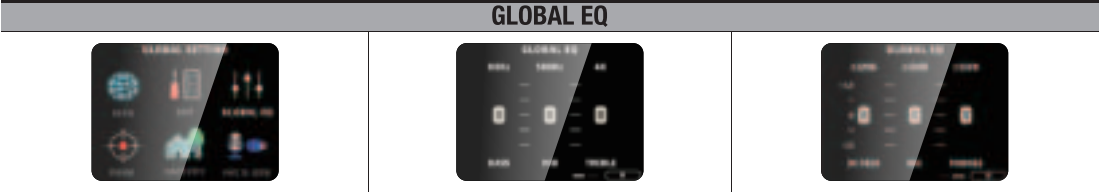
GLOBAL EQ

You can adjust the mic level through GLOBAL SETTING -> MIC & USB

MIC & USB
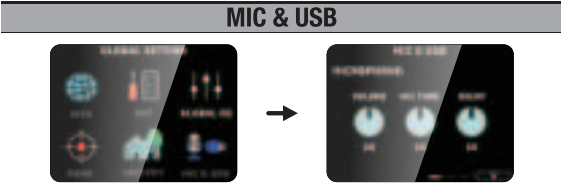
AUX IN
Connect your MP3 player to the 1/8" AUX IN jack for playback.

OUTPUT jack
OUTPUT support 1/4" TS or TRS for MONO or STEREO signal.

INPUT jack
Connect your guitar to INPUT jack.

Global Setting

Here we will explain more details about GLOBAL SETTING's. It's intuitivly designed to enable you to operate it easily.

Press **EDIT/EXIT & SAVE** buttons to enter to GLOBAL SETTING.

GLOBAL SETTING

INFO
It will show the current firmware version.

INFO

EXP
EXP Independent with patch means it's like a physical EXP pedal, while you engage it, it's always On, even when you select another patch.
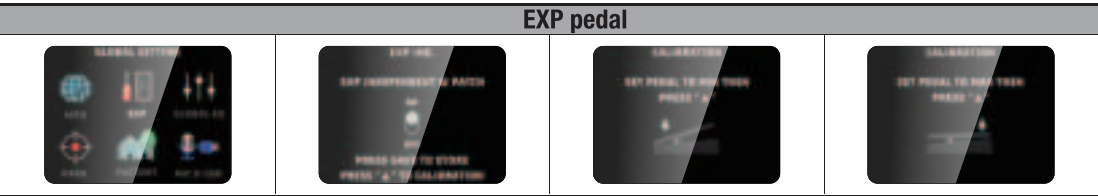
EXP pedal

EXP CALIBRATION, just follow the simple instruction to calibrate the EXP pedal.
*Remember to do EXP CALIBRATION after performing a FIRMWARE UPDATE.
Short press **EDIT/EXIT** to quit to SYSTEM MENU.

GLOBAL EQ
You can tweak the INPUT TRIM & EQ here, and also adjust the PHONES & OUPUT level.
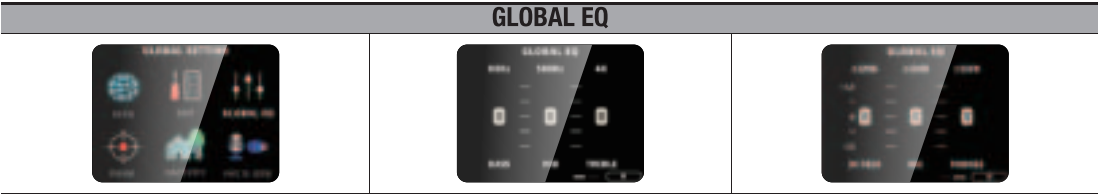
GLOBAL EQ

Note: MG-101 doesn't offer global master volume control, so you can adjust the OUTPUT level under GLOBAL EQ.

PARA. FOLLOW
If you engage PARA. FOLLOW, while you leave the current efx model, MG-101 will remember the parameters while you choose the model again. If you turn off PARA. FOLLOW, while you choose the efx model, it will revert to the default parameters.

PARA. FOLLOW

FACTORY

FACTORY RESET
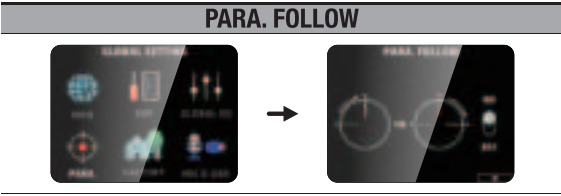
HARDWARE INSPECTION
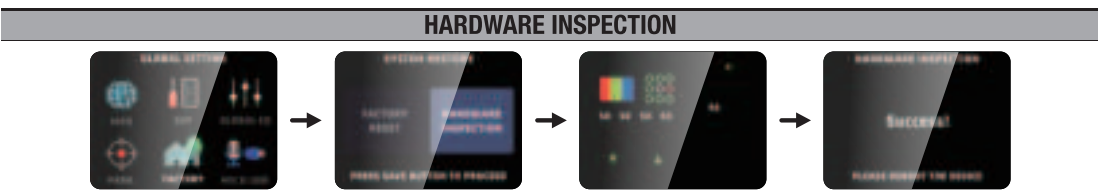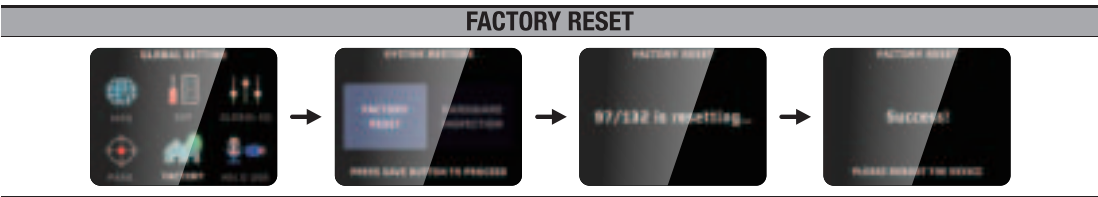
After firmware update, remember to perform a FACTORY RESET to rearrange system data.
Hardware inspection can help you detect the hardware work status.

MIC & USB
You can adjust the microphone parameters like VOLUME, MIC NOISE GATE (THRE. & DECAY), AUX IN VOLUME, USB IN & OUT LEVEL.

MIC & USB
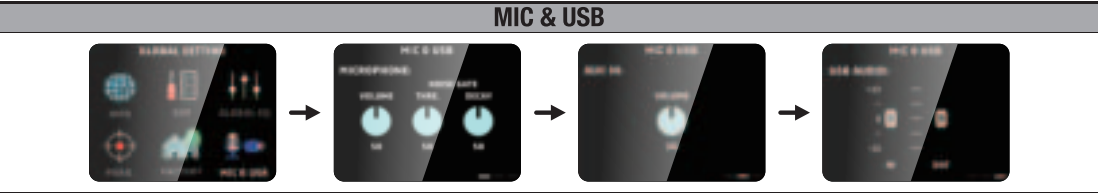
QuickTone™ Editor

You can download QuickTone™ editor from the product page. Here, you can see the interface for tweaking parameters, save patches, load patches, export patches, load IRs on QuickTone™.

QuickTone™ Editor

For more details, you can check MG–101's tutorial videos on NUX YouTube channel.

Reference

NG	NG

CMP	Red Comp	Rose Comp

EFX	Dist +	RC Bst	AC Bst	Dist UNO	T Screamer	Blues Drive	Morning Drive	Modern Dist	Red Dirt	Katana	Crunch	Touch Wah	Red Fuzz	Muff Dist

AMP	Jazz Clean	Deluxe Rvb	Bassmate	Tweedy	Twin Rvb	Hiwire	Cali Crunch	Class A15	Class A30	PLEXI 100	PLEXI 45	BRIT 800	1987 X 50W	SLO 100
	Fireman HBE	DUAL RECT	DIE VH4	Vibro King	Budda	MR.Z.38	Super Rvb	Brit Blues	Match	BRIT 2000	VBER HIGAIN			

IR	JAZZ 212	BLACK 112	TWEED 410	TWEED 112	TWIN 212	CUSTOM 412	CALI 112	BLUE 112	BLUE 212	GREEN 412	G12L 412	T75 412	V30 412	SLO 412
	HBE 412	RECT 412	BOTM 412	VIBRO 412	EVL 112	BUTQ 212	SUPER 212	BRIT 212	DC 212	G12M 412	UBER 412	MIC	C414 E906 S57 U87	

EQ	G-EQ	10-EQ

MOD	CE-1	ST.Chorus	Flange	SCH-1	Ph 90	Phase 100	Chorus+	U-Vibe	Trem	Rty Spk	Vibrato	Harmony	Detune	Classic Chorus

DLY	Analog Delay	Φ Phi Delay	Digi Delay	Modulate	Tape Echo	Reverse	Pan

RVB	Room	Hall	Plate	Spring	Shimmer

Specifications

Input Impedance	470k Ω
AUX In Impedance	25k Ω
Output Impedance	1k Ω
Phone Impedance	47 Ω
Dynamic Range	104 dB
Sampling Rate	48 kHz / 32 bit
System Latency	1.2 ms
Power	9V DC (Negative Tip, additional ACD-006A adaptor)
Current Draw	< 250mA
Dimensions	244(L) x 165(W) x 60(H)mm
Weight	920 g

*Specifications and features are subject to change without notice.

What's in the box?
MG-101 x 1, Power adapter x 1, USB cable x 1, User manual x 1, NUX sticker x 1.

*All the brand and model names mentioned on this page are Trademarks of their respective owners, which are in no way associated or affiliated with NUX Effects and Cherub Technology CO. LTD.