NUX

MG-30 MKII
VERSATILE MODELER

User Manual



TS/AC2K
White-box physical modeling algorithm

LCD 4" LCD
32-bit ADC&DAC
NuxImage
Nux Audio
NAM NAM Loader
1024 Points IR
110dB DR
Parallel Routing
Balanced Out
Stomp Mode

Copyright

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Accuracy

Whilst every effort has been made to ensure the accuracy and content of this manual, Cherub Technology Co., Ltd. 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

The NUX MG-30 has earned wide recognition among guitarists worldwide. Building on this proven platform, the MG-30 MKII introduces the new Gen 2 firmware and significant upgrades in processing power, tonal flexibility, control, and connectivity.

The MG-30 MKII features an upgraded dual DSP architecture based on NXP i.MX RT processors, integrating 2 × Arm Cortex-M7 cores and 1 × Arm Cortex-M4 core. This provides greater processing headroom for stable operation and improved responsiveness in complex signal-processing scenarios.

Retaining NUX's TS/AC-2K White-Box Amp Modeling, the MG-30 MKII adds support for IMAGE and NAM (Neural Amp Modeler). Users can import IMAGE Profiles and third-party NAM profiles, including direct loading of Native NAM A2 Lite. Together with 32-bit high-resolution ADC and DAC, these improvements deliver enhanced realism, dynamic response, and tonal accuracy.

The new Stomp Mode is designed for guitarists who prefer a traditional pedalboard workflow. Each Scene can be assigned up to three CTRL footswitches, allowing effects to be switched on or off directly during performance. Hold footswitch A to enter or exit Stomp Mode.

The redesigned footswitch logic provides intuitive control: A+B functions as Bank Down, while B+C functions as Bank Up. In Preset Mode, footswitches A, B, and C select their corresponding presets; pressing the active footswitch again switches Scenes.

Hardware updates include balanced 1/4" TRS outputs for improved compatibility in live and studio environments. The AUX IN can also be routed into the USB audio stream, enabling simultaneous playback and recording for content creation and streaming.

The MG-30 MKII features a 4-inch high-resolution color display with an intuitive graphical interface for efficient tone editing. With Nux Audio Software, users can manage presets, adjust parameters, and import IMAGE Profiling files, NAM profiles, and third-party IRs up to 1024 sample points.

A refreshed white finish completes the update while maintaining the familiar MG-30 form factor. Overall, the MG-30 MKII is built to meet the needs of modern guitarists in studio recording, content creation, and live performance applications.

Features

- Dual DSP architecture based on NXP i.MX RT processors, delivering twice the processing power of the first-generation hardware.
- NUX TS/AC-2K White-Box amp modeling with enhanced processing performance.
- Support NUX IMAGE Profiles and NAM profiles import, including direct import of Native NAM A2 Lite profiles, with 10 user slots.
- 1024-point IR resolution with 24 third-party IR loader slots.
- Wide range of electric guitar amp models, bass amp models, and acoustic simulation IRs with matched amp models.
- Dedicated Stomp Mode for pedalboard-style operation, with up to three assignable CTRL footswitches for each Scene.
- New Preset and Scene switching modes, with direct footswitch control for fast and seamless changes.
- 12 independent, movable signal blocks (WAH, CMP, GATE, EFX, AMP, IR, EQ, S/R, MOD, DLY, RVB, VOL) with flexible routing and optional parallel post-effects.
- Send/Return loop interface for connecting external effects pedals, with freely re-orderable placement within the signal chain.
- Supports external footswitch expansion into a 5-footswitch multi-effects processor, as well as expression pedal input with fully assignable parameter control.
- Balanced 1/4" TRS outputs for improved compatibility in live and studio environments.
- AUX IN audio can be routed into the USB audio stream for simultaneous playback and recording.
- 32-bit high-resolution ADC and DAC for improved dynamic range and signal accuracy.
- USB audio interface for recording, firmware updates, and integration with Nux Audio Software.
- 4" 800 × 400 color LCD with an intuitive graphical user interface.

Control Panel

■ Top panel



1 MASTER
Master knob for controlling the overall output volume.

2 SAVE
Press the SAVE button to store the current settings to a preset or scene.

3 DISPLAY
4" high-definition LCD screen for parameter display.

4 ENCODER 1
Rotate to adjust parameters. Press to enter the Patch Volume page for preset volume editing.

5 ENCODER 2
Rotate to adjust parameters. Press to enter the Tap Tempo page and set the BPM.

6 ENCODER 3
Rotate for parameters. Press for CPU status.

7 ENCODER 4
Rotate to adjust parameters. Press to toggle the Input Meter display on the Home page. Press and hold to switch between User Presets and Factory Presets.

8 5-WAY DIRECTION ENCODER
Rotate, press, or move up/down/left/right to navigate pages and adjust parameters.

9 HOME / GLOBAL
Press to return to the Home page. Press and hold for 1 second to enter the Global Settings page. The LED indicator lights up when the EXP function is active.

10 COMP
Press to turn the COMP module on/off. Press and hold for 1 second to quickly enter the module edit page.

11 EFX
Press to turn the EFX module on/off. Press and hold for 1 second to quickly enter the module edit page.

12 AMP
Press to turn the AMP module on/off. Press and hold for 1 second to quickly enter the module edit page.

13 IR
Press to turn the IR module on/off. Press and hold for 1 second to quickly enter the module edit page.

14 EQ
Press to turn the EQ module on/off. Press and hold for 1 second to quickly enter the module edit page.

15 MOD
Press to turn the MOD module on/off. Press and hold for 1 second to quickly enter the module edit page.

16 DELAY
Press to turn the DELAY module on/off. Press and hold for 1 second to quickly enter the module edit page.

17 REVERB
Press to turn the REVERB module on/off. Press and hold for 1 second to quickly enter the module edit page.

18 Footswitch A
On the Home Page, Footswitch A is used for preset and Scene switching. When the A preset is active, repeatedly pressing Footswitch A cycles through its Scenes. Hold it for one second to enter or exit Stomp Mode. On the Looper Page, Footswitch A controls REC, PLAY, DUB, STOP, and CLEAR.

19 Footswitch B
On the Home Page, Footswitch B is used for preset and Scene switching. When the B preset is active, repeatedly pressing Footswitch B cycles through its Scenes. Hold it for one second to enter or exit Loop Mode. On the Looper Page, Footswitch B controls Drum Play and Stop. Press A+B simultaneously to perform Bank Down.

20 Footswitch C
On the Home Page, Footswitch C is used for preset and Scene switching. When the C preset is active, repeatedly pressing Footswitch C cycles through its Scenes. Hold it for one second to enter or exit Tuner Mode. On the Looper Page, press Footswitch C to exit. Press B+C simultaneously to perform Bank Up.

21 EXP Pedal
When EXP is inactive, it functions as a volume pedal. Press firmly on the toe switch to activate EXP mode (indicator lights on). In EXP mode, it controls assigned parameters or effect modules. EXP assignments can be configured per preset in the assignment setting (press and hold the encoder downward to enter).

■I/O jacks



22 INPUT
1/4" TS mono input jack for connecting a guitar or bass.

23 AUX IN
1/8" TRS stereo input for connecting line-level audio devices such as MP3 players or mobile phones.

24 HEADPHONE
1/8" TRS stereo output for connecting headphones for monitoring.

25 SEND
1/4" TS mono output for connecting to the input of external effect pedals or amplifier.

26 RETURN
1/4" TS mono input for connecting to the output of external effect pedals or the send of an amplifier.

27 BALANCED OUTPUT L
1/4" TRS balanced left output for connecting studio monitors, audio interfaces, mixers, or other devices.

28 BALANCED OUTPUT R
1/4" TRS balanced right output for connecting studio monitors, audio interfaces, mixers, or other devices.

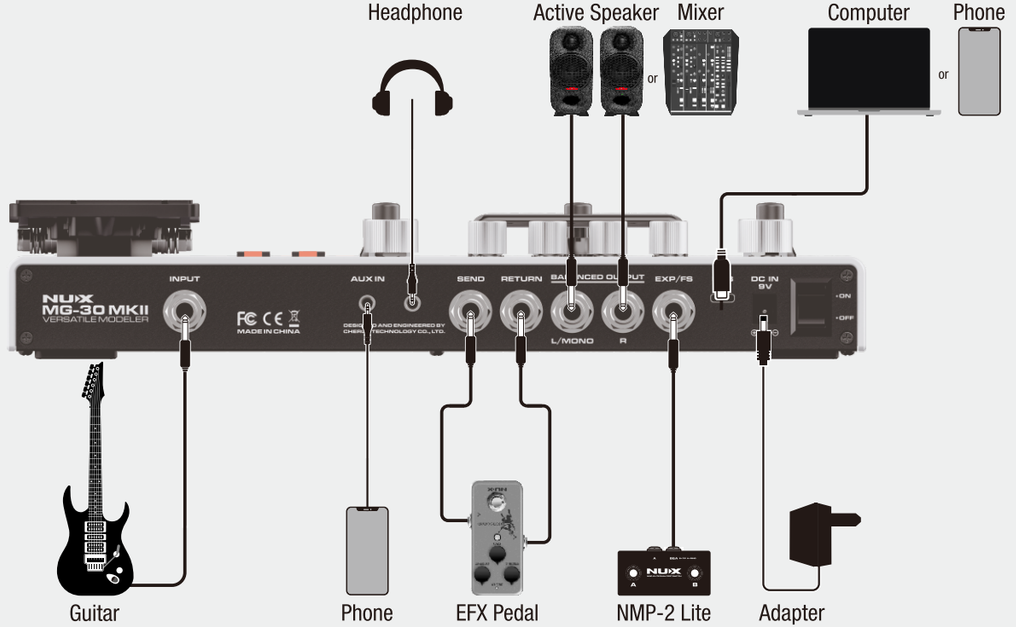
29 EXP/FS
1/4" TRS input for connecting an external expression pedal or dual footswitch.

30 USB
USB Type-C port for connecting to a computer for NUX AUDIO editing or use as a USB audio interface. Also supports connection to iOS or Android devices for OTG recording.

31 DC 9V
DC power input, 9V ,400mA ⊕-◖-⊖ .

32 POWER
Turn on/off the device.

Connection



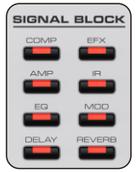
How to use

MASTER KNOB



Controls overall master volume of MG-30 MKII .

SIGNAL BLOCK



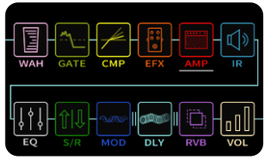
Under the current patch. Press once to engage/disengage the related signal block. Hold to enter to related signal block editing. Hold 2 signal blocks simultaneously to exchange their positions. (AMP & IR blocks are fixed together and cannot be swapped.) Signal blocks are also the indicators to show the current status. (Engaged/ Disengaged)

Hidden Function
Holding block to exchange: CMP->EFX, EFX->MOD, MOD->EFX. It means you can stack CMP, and 2 EFXs (OD/DIST) at the same time.

5-WAY DIRECTION ENCODER

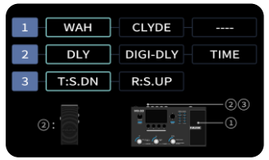


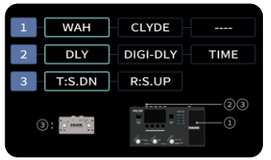
During current patch location display. Press once to enter to edit mode, then you can go left right to choose related signal block to tweak parameters. Rotate the encoder can switch to different models.



In patch edit mode, hold 5-way encoder "UP", you can also adjust the current patch SIGNAL BLOCK order/routing. If your current block is MOD / DLY / RVB, press KNOB 3 or KNOB 4 can set the post-effects as parallel routing.

During current patch location display. Hold down, you can adjust EXP / EXP 1 / CTRL assignment settings. (MG-30 MKII will detect external EXP 1 jack while you connect with NUX NMP-2 LITE or expression pedal.)





In patch edit mode, hold 5-way encoder "DOWN" you can also go to on-board EXP /external EXP /CTRL assignment settings.

HOME / GLOBAL BUTTON



During current patch display, hold global button to enter to GLOBAL SETTING, then use 5-way direction encoder to adjust all the setups. Press once to go one layer back.

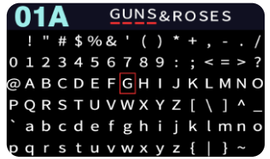


The EXP indicator can show the on-board EXP is engaged for secondary function or not

SAVE BUTTON



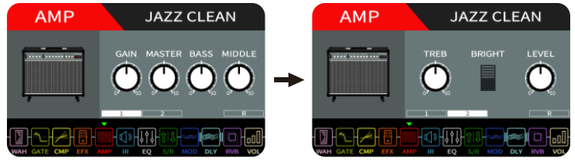
Either in GLOBAL SETTING or Patch Edit, press the SAVE button to store. Press HOME/GLOBAL button to go back.



ENCODER 1/2/3/4



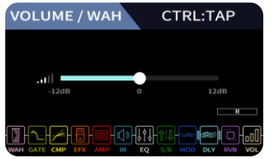
While you enter to edit mode (press 5-Way encoder, you can tweak the knob to adjust the related parameters. You can even press the knob to go to different page.



Hidden Functions in PRESET mode by pressing ENCODER 1/ 2/ 3/ 4

Press ENCODER 1

You can adjust current patch LEVEL by rotating **ENCODER 1**. (Press **ENCODER 4** to recall default parameter.)



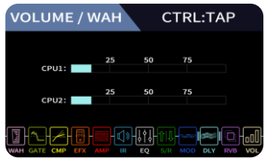
Press ENCODER 2

You can see current patch's BPM/TIME setting. In the meantime, you can tap **ENCODER 2** as Tap Tempo toadjust the BPM value.



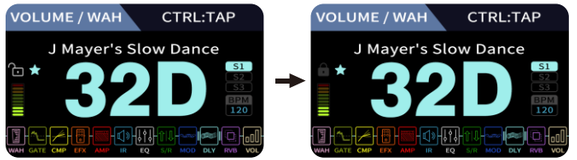
Press ENCODER 3

You can see current CPU status.



Press and hold ENCODER 4

Recall default patch.



FOOT SWITCHES



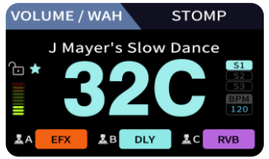
Preset Mode:
The Home Page opens in Preset Mode by default. Press Footswitch A, B, or C to select Preset A, B, or C, respectively. Press A+B simultaneously to perform Bank Down, or B+C simultaneously to perform Bank Up.

Scenes:
Each Preset contains 3 Scenes, allowing fast, seamless parameter changes without interrupting the sound. By default, entering a new Preset loads Scene 1 (S1).

Within the active Preset, press its assigned footswitch repeatedly to cycle through the Scenes. For example, when Preset 01A S1 is active, press Footswitch A again to switch to S2, press it again to switch to S3 if S3 is enabled, and press it once more to return to S1. The same operation applies to the other Presets.

⚠ **Notes:** S3 can be disabled by selecting OFF under Global > S3.

Stomp Mode:



Each Scene includes its own Stomp Mode settings, allowing individual effect blocks to be switched on or off and providing Tap Tempo control. Hold Footswitch A for 1 second to enter the Stomp settings for the current Scene.

In Stomp Mode, use Encoder 1, Encoder 2, and Encoder 3 to assign functions to Footswitches A, B, and C, respectively. Hold Footswitch A for 1 second to return to Preset Mode.

Loop:



Hold Footswitch B for 1 second to enter Loop Mode.
In Loop Mode, Footswitch A serves as the main Looper control.

LOOP FOOTSWITCH



Footswitch B serves as the main control for the Drum function.

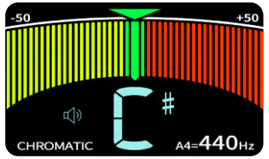
RHYTHM FOOTSWITCH



●**ENCODER 1**	Turn to adjust the current Loop playback volume. Press to switch the Loop between Mono and Stereo.
●**ENCODER 2**	Turn to adjust the Drum volume. Press to enter the Drum 3-band EQ menu, then use Encoders 2, 3, and 4 to adjust the corresponding EQ bands. Press Encoder 2 once more to return to the main Loop interface.
●**ENCODER 3**	Turn to adjust the Drum speed. Press to use Tap Tempo and set the Drum speed.
●**ENCODER 4**	Turn to quickly select a Drum Style.
●**5-Way Encoder**	Turn to select Drum Patterns.

Hold Footswitch B for 1 second to return to Preset Mode.

Tuner:



Hold Footswitch C for 1 second to enter the Tuner interface.
Turn Encoder A to select Chromatic or Guitar Tuner Mode. Press Encoder A to set the tuner output to Bypass or Muted. Turn Encoder 4 to adjust the A4 reference pitch from 430 Hz to 450 Hz.
Press any footswitch to exit Tuner Mode.

Image / NAM Loader



NUX IMAGE is NUX's profiling technology, designed to capture the tonal characteristics, dynamic response, and playing feel of amplifiers, preamps, and overdrive or distortion pedals. The MG-30 MKII supports the import of IMAGE Profiles, allowing users to expand their tonal palette with personalized and externally created profiles while preserving the original character and response of the captured equipment.

The MG-30 MKII supports loading of NAM (Neural Amp Modeler) profiles, including Native NAM A2-Lite profiles. Unlike solutions that rely on format conversion, the MG-30 MKII loads Native NAM A2-Lite profiles directly and without loss, preserving their original tonal characteristics, dynamic response, and playing feel for a more faithful reproduction.

Through the IMAGE interface in Nux Audio Software, users can load IMAGE Profiling files or NAM profiles into the User Amp section. The MG-30 MKII provides 10 User Amp slots for imported profiles.

NAM profiles can be downloaded from the Tone3000 website.

POWER



Turn ON / OFF MG-30 MKII through the switch.

DC 9V JACK



Connect the original adaptor to the jack ⊕-●-⊖

USB



Connect the USB cable to computer for firmware update, USB recording, or NUX AUDIO edit software editing.

⚠ **Notes:** Connect USB cable to computer, and hold A & B footswitch to turn on MG-30 MKII, 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 instruction and download the newest firmware & NUX AUDIO edit software.

BALANCED OUTPUT



1/4" TRS balanced output jacks. The L output is used for mono operation, while the L/R outputs are used for stereo operation.

SEND / RETURN JACKS



You can connect with other effect pedals through SEND / RETURN. You can check S/R current block position on the display.

HEADPHONE JACK



Connect your headphone to the 1/8" phone jack. The headphone output signal is identical to the OUTPUT signal.

AUX IN



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

INPUT JACK



Connect your guitar to the INPUT jack.

EXP / FS



1/4" TRS jack, connect an external expression pedal here, or the additional NMP-2 LITE.

Global Setting

Here we will explain more details about GLOBAL SETTING, actually it's very intuitive, you can follow the UI to operate easily.
Hold HOME/GLOBAL button to enter to GLOBAL SETTING.



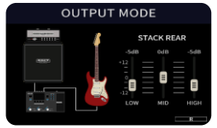
PRE EQ

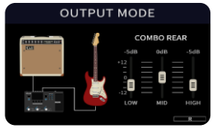
You can adjust input trim and 3 band EQ to fix the guitar sound as you prefer.



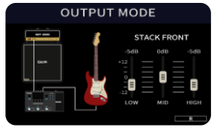
OUTPUT MODE

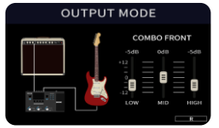
You can choose the suitable output mode with related connection. While you choose COMBO FRONT /STACK FRONT, MG-30 MKII will bypass IR(Cab) block. In output mode, MG- 30 MKII offers 3 band EQ to let you tweak global sound be suitable for current environment.











EXP SETUP

Firstly, you can set the EXP to be independent of the patch or linked to it. It means if you choose EXP Ind., you can keep EXP engaged even move to the next patch.



If you need to perform EXP calibration press CTRL.







TEMPO



Enter the Tempo submenu and turn the 5-Way Encoder to select Global Tempo or Preset Tempo. Press Save to store the setting.

S3 (SCENE)



Enter the S3 submenu and turn the 5-Way Encoder to select ON or OFF for S3. Press Save to store the setting.

USB ROUTING

●**ENCODER 1**	Adjusts the recording level.
●**ENCODER 2**	Adjusts the playback level.
●**ENCODER 3**	Selects operating mode (REAMP / NORMAL / DRY OUT).

In NORMAL mode, the 5-way encoder adjusts the DRY/WET mix, and Encoder 4 controls the loopback on/off function.



DISPLAY

Rotate Encoder 1 to adjust patch display.Rotate Encoder 2 to adjust boot-up picture.Rotate Encoder 3 to adjust display brightness.



PARA. FOLLOW

When PARA. FOLLOW is enabled, the MG-30 MKII will retain the current effect parameters even after you switch to another effect model, and restore them when you return to the same model. When it is disabled, selecting an effect model will load its default parameters.
Rotate Encoder 2 to select whether BPM is set per preset or globally.



Enter the RESTORE interface to select Factory Reset or System Inspection.

RESTORE



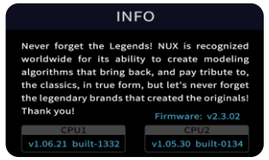
Rotate Encoder 1 to select whether preset switching is clockwise or counterclockwise.

PATCH ROLLING



INFO

You can check firmware version and CPU utility.



Specifications

●**Input Impedance**	Input: 1 MΩ
	Return: 220 kΩ
●**Output Impedance**	Output: 1 kΩ
	Send: 1 kΩ
●**A/D Converter**	32-bit
●**Sampling Frequency**	48 kHz
●**Frequency Response Range**	20 Hz ~ 20 kHz
●**Dynamic Range**	110 dB
●**Current Draw**	< 400 mA
●**Power**	9V DC negative center
●**Dimensions**	313mm(L) x 166mm(W) x 55mm (H)
●**Weight**	1.5 kg

*Specifications and features are subject to change without notice.

What's in the box ?

MG-30 MKII x 1, Power Adapter x 1, Patch Cable x 1(The TRS patch cable is for NMP-2 LITE to EXP1 connection), NMP-2 LITE dual footswitch, USB Cable x 1, User Manual

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