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www.nuxaudio.com

Made in China

NUX



New Generation Amp



Owner's manual

20 WATTS
7 PRESETS
8 EFFECT BLOCKS
DRUM MACHINE

WARNING

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

CAUTION

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.

Introduction

Thank you for purchasing the NUX MIGHTY 20 MKII. Since launching the MIGHTY BT series in 2018, we have been hard at work incorporating the latest innovations in amp modeling into this brand-new version. We hope you enjoy using it.

The MIGHTY 20 MKII provides a variety of effects for electric guitar including amp modeling and 7 additional signal blocks. The signal chain is customizable, as you can rearrange the signal blocks as you like to create your own customized signal path. The TSAC-HD (White-Box) amp modeling algorithm and the outstanding classic D power amp design offer you realistic playability response akin to classic tube amplifiers. It's also quite pedal-friendly when connecting with your favorite external pedals. The MIGHTY 20 MKII can use the additional NBT-1 Bluetooth module to operate with the Mighty Amp™ application on your smartphone. You can also connect the MIGHTY 20 MKII via USB-B to PC for Mighty Editor™ operation.

NOTE: THE NBT-1 IS INCLUDED.



NBT-1 BLUETOOTH MODULE

Download Mighty Amp™

Download on the
App Store



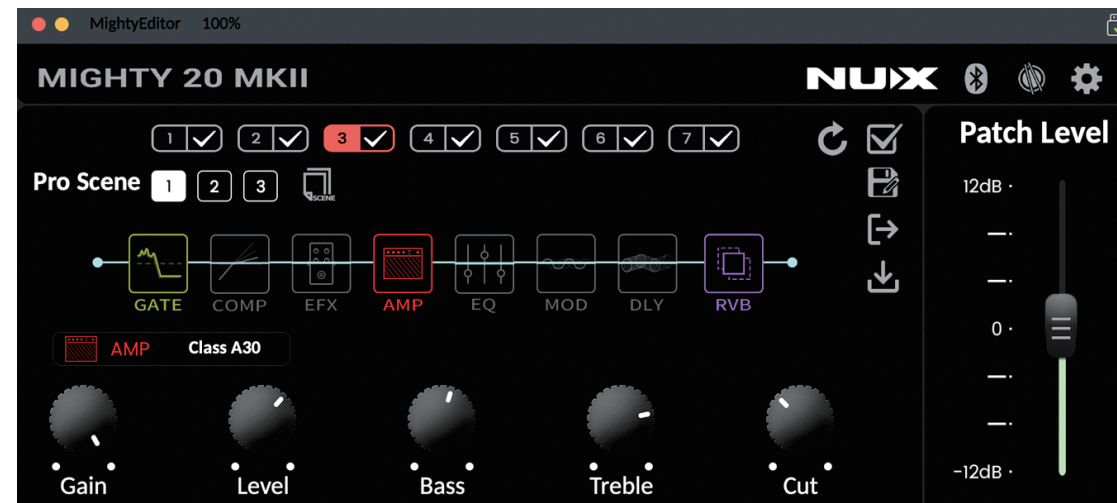
GET IT ON
Google Play



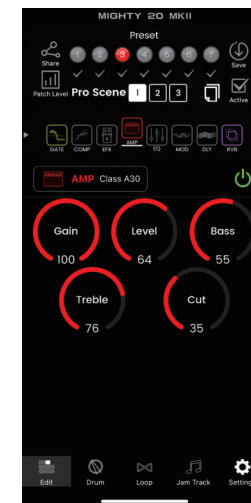
Note: When connecting the NBT-1 to the MIGHTY 20 MKII, please make sure the MASTER knob is set to the minimum value to avoid a “POP” noise.

You can customize the presets through the Mighty Amp™ App (mobile) or Mighty Editor™ edit software (PC). And you can change the order of the effect blocks along the signal path! You can do lots of things with the intuitive interface, experience it, feel the versatility and might!

Mighty Editor™ PC software



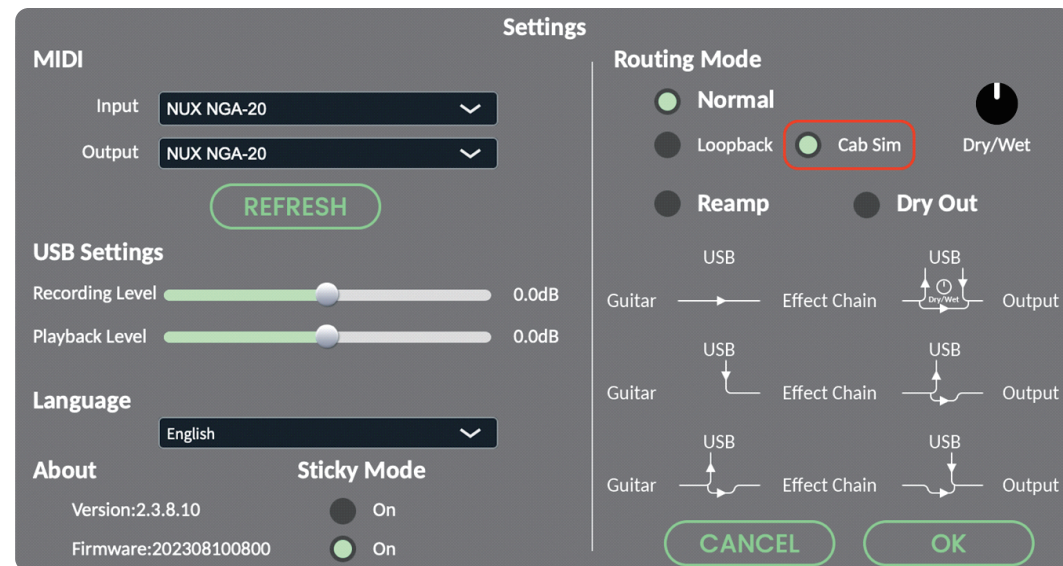
Mighty Amp™ App



The Mighty Amp™ App and Mighty Editor™ edit software lets you adjust all the signal blocks and parameters. The MIGHTY 20 MKII includes GATE, COMP, EFX, AMP, EQ, MOD, DLY and RVB signal blocks which can be reordered freely.

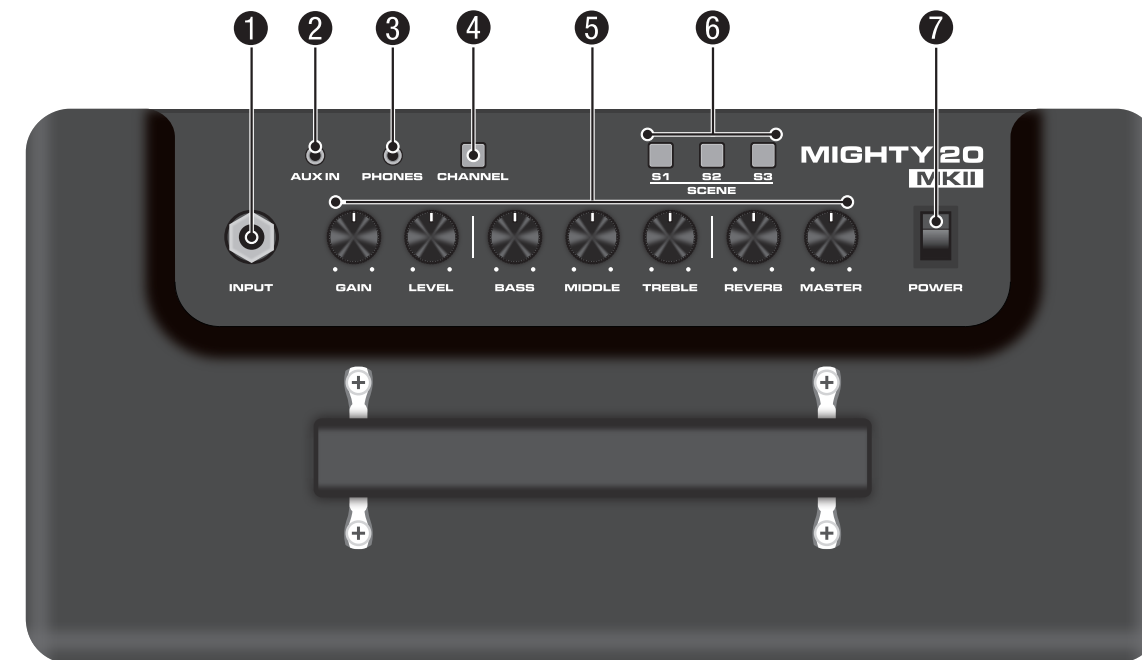
The MIGHTY 20 MKII supports USB-B audio stream, which means that it can be an USB recording interface. It supports Normal / Dry Out / Re-amp / Loopback routing, you can adjust it via the Mighty Amp™ App or Mighty Editor™ edit software, no need to setup USB OUT in your DAW. You can even jam while live streaming with the Loopback option!

Note: As the MIGHTY 20 MKII uses guitar speaker, there is no IR block. If you want to record with the MIGHTY 20 MKII , just engage the “Cab Sim” for guitar recording.



Operation

•Control Panel



① 1/4" (6.35mm) INPUT jack



Use the Input jack to connect your guitar with a guitar cable.

② AUX IN jack



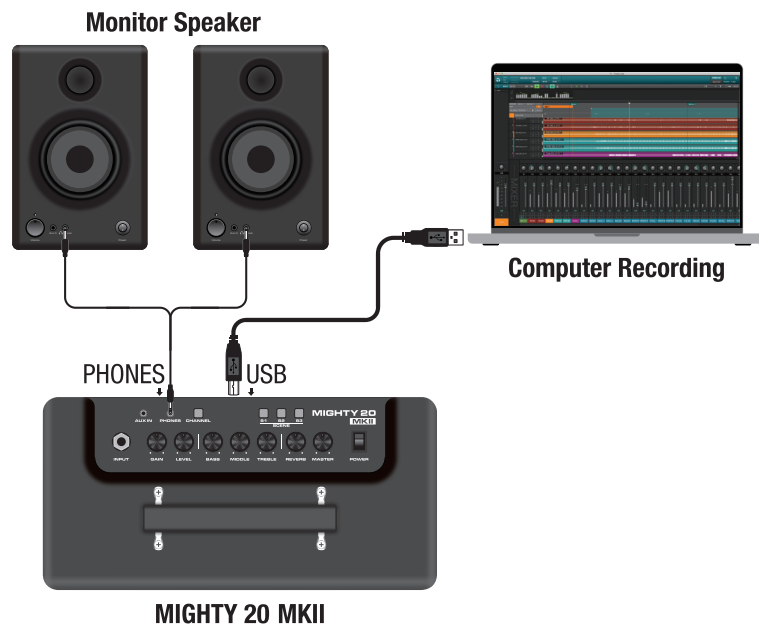
Use the Input jack to connect your guitar with a guitar cable.

③ PHONES out jack



Connect with headphones for silent practicing, the MIGHTY 20 MKII speaker will be automatically muted.

Note: Connect PHONES to monitor speakers while you use the MIGHTY 20 MKII as USB recording interface. Please setup "NGA-20" as your system input and output. As a reminder, you can engage "Cab Sim" on Mighty Editor™ to record the guitar signal with a full cab sound.



④ ⑥ CHANNEL & SCENE indicator

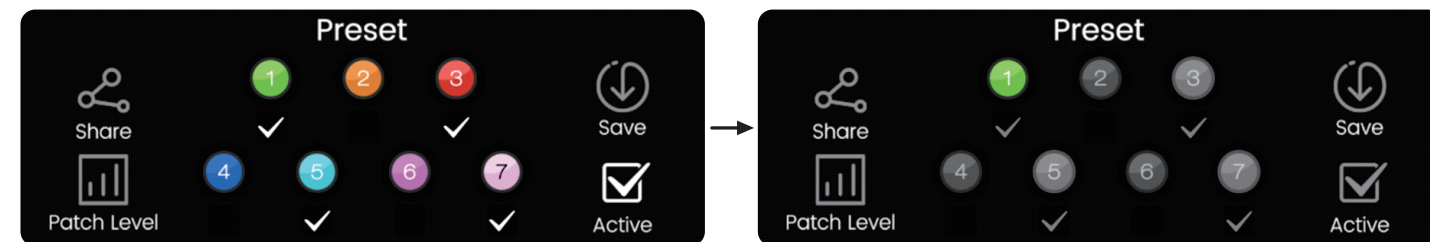


With the amp on, press the CHANNEL switch(indicator) to change the preset from 1~7. The indicator will display colors related to the specific presets.

Note: You can adjust which preset can be ACTIVE while you press the PRESET switch through Mighty Amp™ App or Mighty Editor™ edit software. (ACTIVE function)

Mighty Amp™ App example

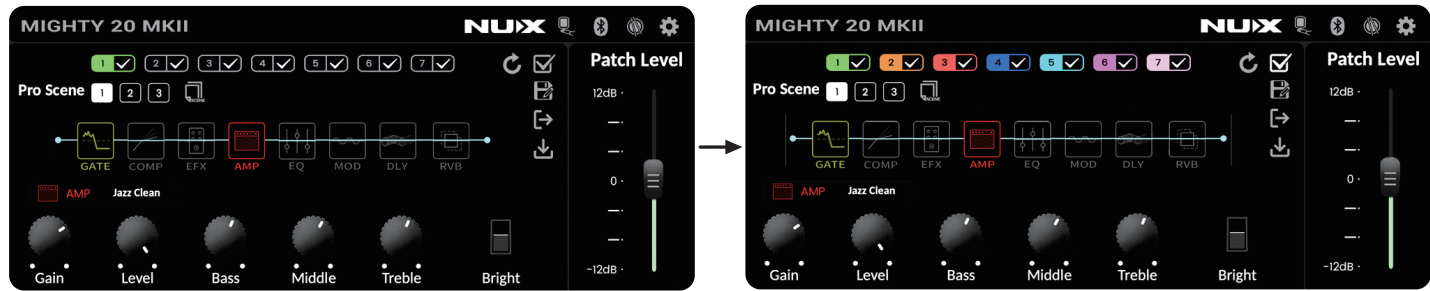
Choose preset 1, 3, 5, 7 and press Active icon (), then the device will know preset 1, 3, 5, 7 will be chosen while you press the PRESET switch.



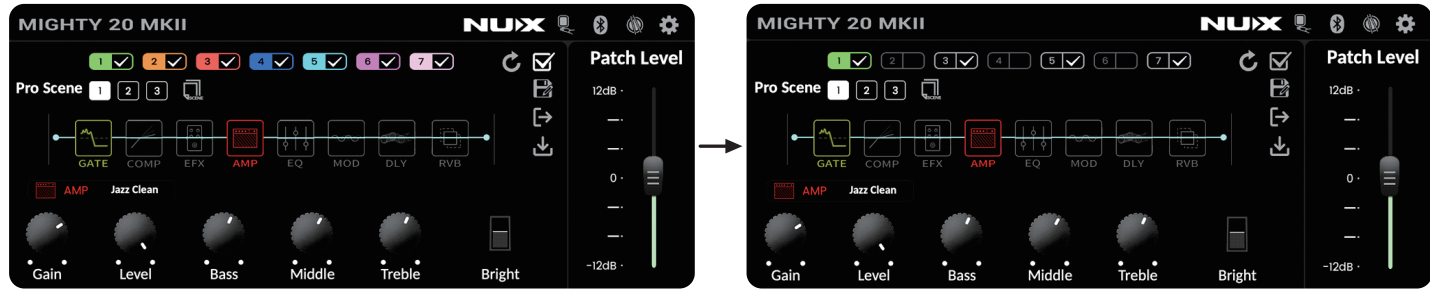
Choose preset 1, 3, 5, 7 and press Active icon ()

Mighty Editor™ example

Click ☒ icon, the 7 PRESETS will be COLORED.



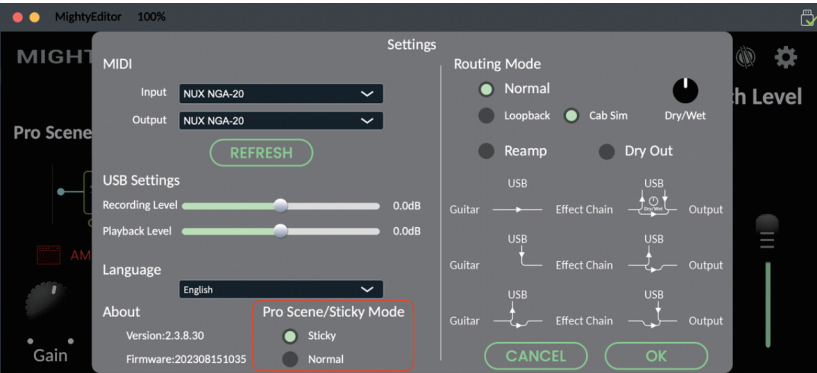
Choose the ones you want to active, like 1, 3, 5, 7. Then press ☒ icon again , Mighty Editor™ will show current preset, and according to the interface, you will see which is be chosen with ☒.



The SCENE switch (indicator) is used to select a SCENE within a preset. SCENE's are an exciting feature, as you can store different parameters and even different models into each scene within a preset.



Additionally, with you can engage “Sticky Mode”, which will remember the selected scene after you quit the preset. So, when you select that preset again, it will remember that selected “sticky” scene.



⑤ GAIN, LEVEL, BASS, MIDDLE, TREBLE, REVERB, MASTER knobs



Knob	Function
GAIN	Controls AMP model's gain.
LEVEL	Controls AMP model's master.
BASS	Controls AMP model's EQ.
MIDDLE	
TREBLE	
REVERB	Controls RVB's mix level.
MASTER	Controls the device's overall volume.

⑦ POWER switch



Toggle the POWER switch to boot-up the amplifier, while the amp is on, the CHANNEL indicator will turn on.

• Back Panel



⑧ AC Power jack



Connect the included AC power cord to AC Power jack. It's universal power.

⑨ USB-B port



Connect the included AC power cord to AC Power jack. It's universal power.

Recording

For WIN OS, please go to the product page to download

ASIO driver for recording.
For MAC OS, the device supports CORE AUDIO, so there is no need for driver.

Firmware Update

Connect USB with PC, hold the CHANNEL switch and turn on the device by toggling POWER switch to enter to DFU (Device Firmware Update) mode. Then use DFU updater software to update the firmware. (You can get the firmware and firmware update guide on the product page.)

⑩ USB-C port

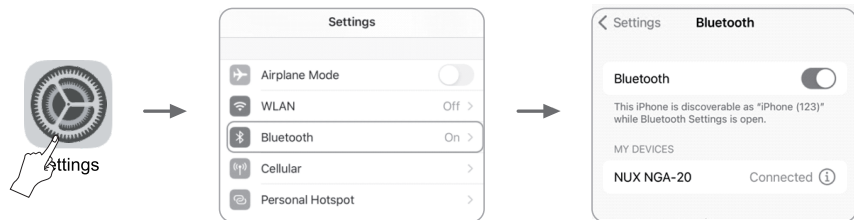


Please connect NBT-1 to this USB-C port.

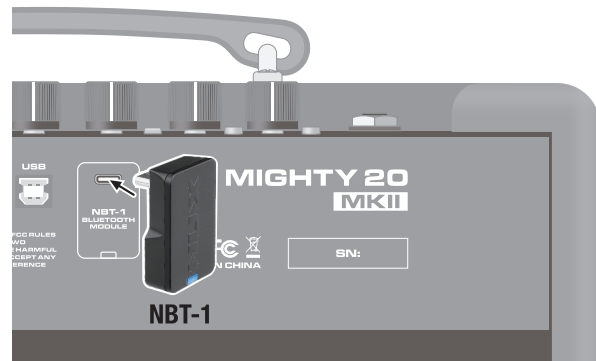
Note: While you connect the NBT-1 onto MIGHTY 20 MKII, please make sure the MASTER knob is set to the minimum value to avoid a “POP” noise. When connecting a Bluetooth enabled mobile device to the MIGHTY 20 MKII's Bluetooth audio, you will hear a connection sound.

Connect Bluetooth Audio

You can connect Bluetooth Audio from “Settings” on the mobile phone to play audio through the MIGHTY 20 MKII. Click “Settings” on the mobile phone. Enter “Bluetooth”, and choose “NUX NGA-20”, while you connect MIGHTY 20 MKII's Bluetooth audio, you will hear a connection sound.



Note: The Bluetooth audio and Bluetooth MIDI are independent, you have to connect them separately. Both of these connections must be made in order to use the MIGHTY 20 MKII's full functionality.



Mighty Amp™ App connects with the device.

Launch the Mighty Amp™ App on your mobile phone, and press “Settings” to choose “Current Amp” as “MIGHTY 20 MKII”, then “Click to Scan Devices”. The App will find “NUX NGA-20”. Now select it, and the App will connect with the device.

Note: The App uses Bluetooth MIDI to communicate with the device.

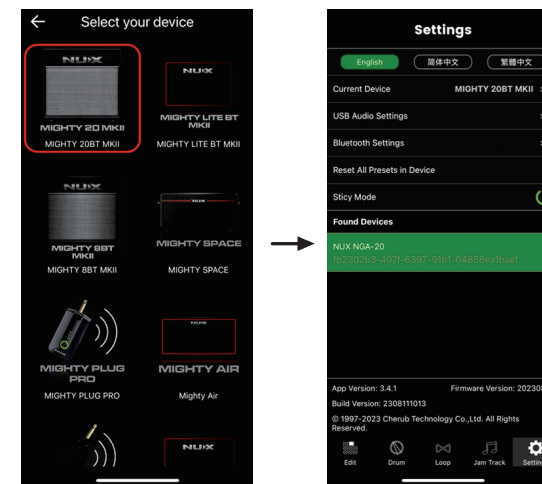
Note: For Android OS, you may need to turn on GPS permission.

PRIVACY NOTE

We do not use your GPS to track you.

Applications that scan for Bluetooth devices must request permission in the manifest file. This LOCATION permission is required because it may be possible to guess the location of an Android device by seeing which BTLE devices are nearby.

https://developer.android.com/reference/android/media/midi/package-summary#btle_location_permissions



Mobile App & Edit Software

Please download the Mighty Editor™ from the product page, and make sure your device's firmware version adapt with the editor version and App version.

Features

- 20 watts bedroom Modeling Amplifier.
- TSAC-HD (White-Box) Amp Modeling algorithm offers realistic playability & feedback.
- Pedal-friendly amp that works well with your favorite external pedals.
- 7 presets with ACTIVE and Pro SCENE functions. (PRESET switch toggles ACTIVE ones sequentially. Pro Scenes can store different parameters even different models.)
- GATE, COMP, EFX, AMP, EQ, MOD, DLY, RVB effect blocks with free order.
- White-box algorithm EFX offers analog response and natural chaos.
- Patch Level function for each preset.
- 30s phrase loop with auto tempo detection drum machine.
- Intuitive Mighty Amp™ App & Mighty Editor™ edit software.
- USB-B: Mighty Editor™ edit software communication, USB audio stream, and Firmware update.

Specifications

- Input Impedance: 1M Ω
- AUX In Impedance: 9.1K Ω
- Earphone Output: 280mW+280mW(To 33 ohms load)
- Sampling Rate: 48KHz / 32-bit
- System Latency: 1.42ms
- Speaker: 8”, 4Ω , 20W
- Dimensions: 380mm(L) x 186mm (W) x 340mm (H)
- Weight: 6.6 kg

* Specification may change without notice.

Accessories

- Power Cable
- NBT-1 Bluetooth Audio & MIDI Adaptor
- Owner’s manual
- NUX sticker