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Designed and manufactured by
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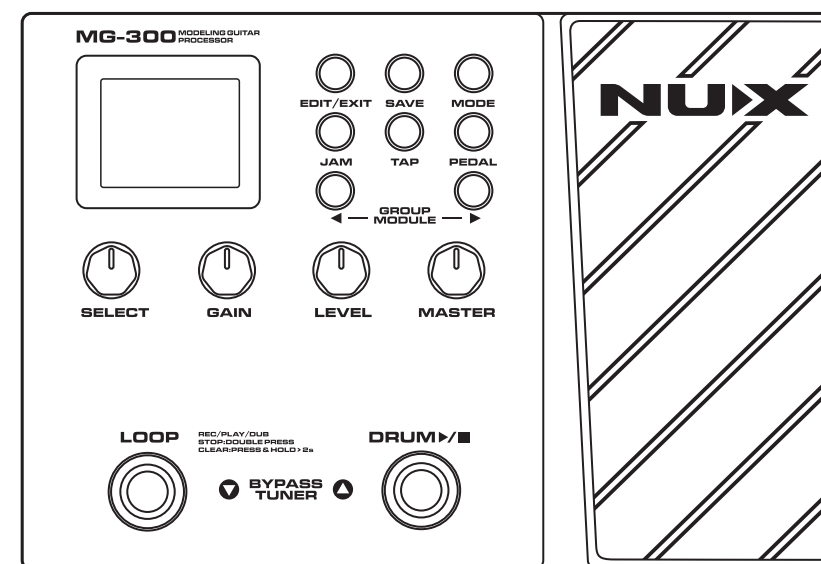


NUX

MG-300

Modeling Guitar Processor

Owner's Manual



Version 1.0

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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!

Introduction

To develop a versatile compact multi-efx is our dream. We understand it's important to beginners and working musicians to offer them compact size and great sound with affordable price. This a big challenge, and we're proud to say we did it!

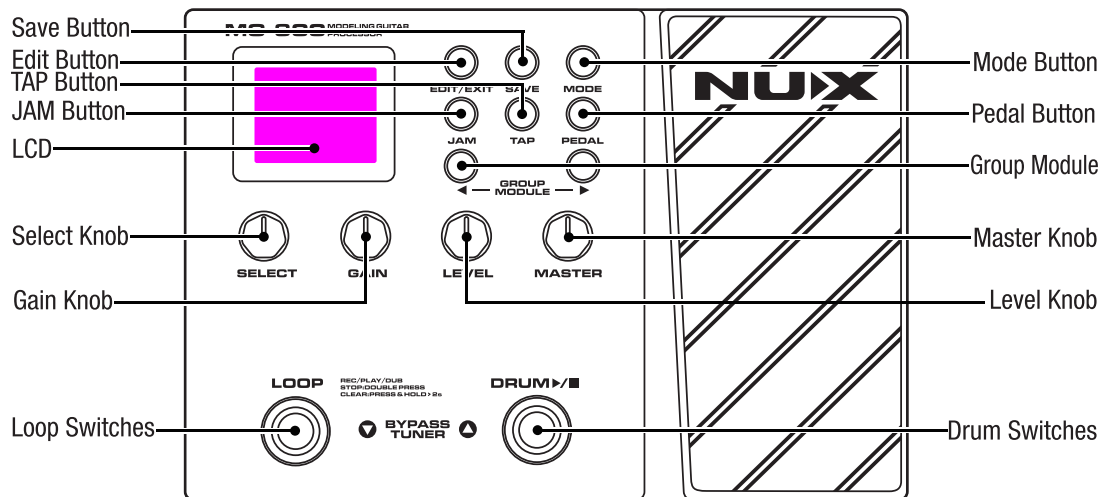
MG-300 features with TSAC-HD Amp Modeling algorithm which provides the best sound response and playability, CORE-IMAGE post-efx sound library as our iconic Verdugo pedals, user-friendly interface and PC edit software, Impulse Response, USB audio stream(recording interface with re-amp function), ...etc. It's the best value for money multi-efx in the market.

Features

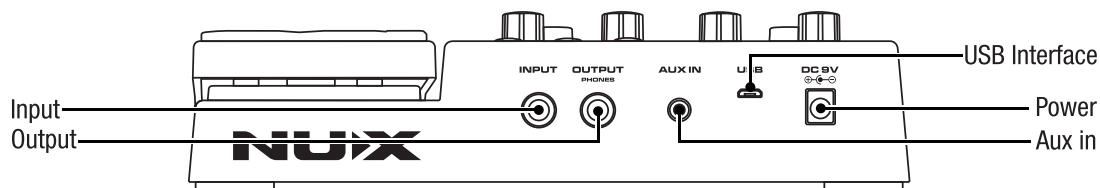
- TSAC-HD Pre-effect and Amp Modeling delivers realistic feeling and playability.
- Core-Image post-effects offer you studio sound quality.
- Quick Tone™ edit software for quickly choosing and tweaking patches.
- Load 3rd party IRs to expand sound ability.USB audio stream for recording interface with routing setup.
- 56 drum beats and 60 seconds auto tempo detection phrase loop.
- Global 3 bands EQ for quick adjust in live application.

Panel Description

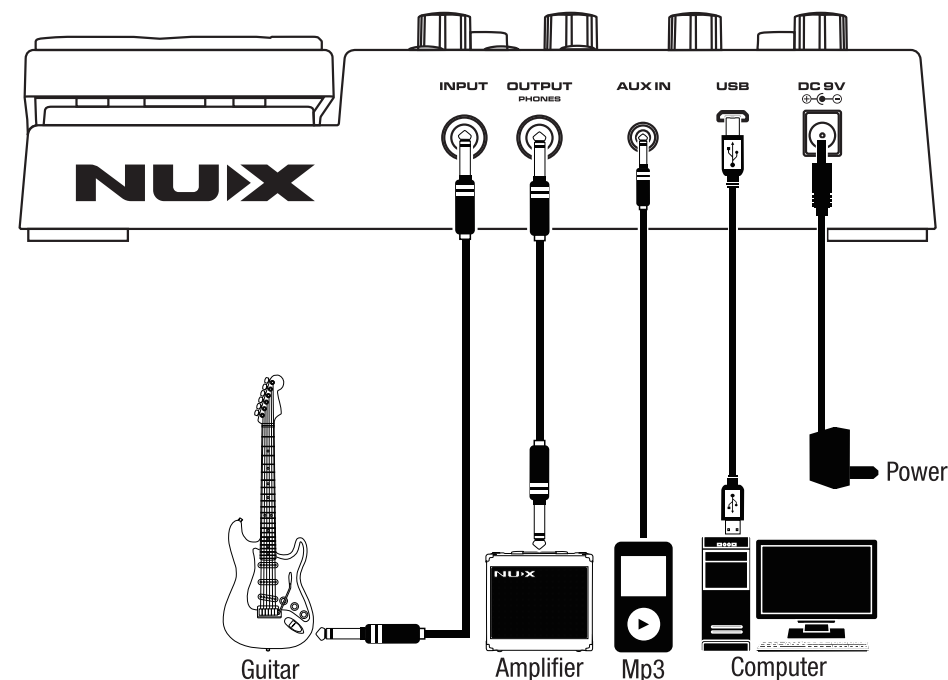
Front Panel



Rear Panel



Connection Panel Description



INPUT

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

OUTPUT

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

AUXILIARY INPUT

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

MICRO B USB PORT

You can connect the MG-300 to your computer to use the MG-300 software to create, customize and save your presets. (Please visit nuxefx.com for more information)

Also for future firmware updates*. (For updating the firmware; you must run the pedal in update mode. Plug the Input jack and the USB cable, push and hold both footswitches (Bank DOWN/Bank UP), and plug in the power cable while holding the switches)

*Please visit the nuxefx.com and download the product update guide sheet

Operation

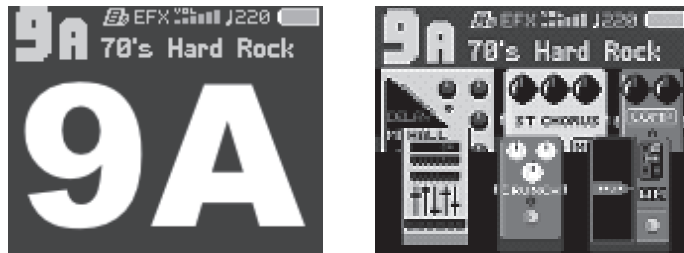
Footswitches



MG-300 has multi-functional sensitive footswitches. You can use to switch the presets UP and DOWN (i.e 1A -> 1B -> 1C) in preset mode, and it also controls the looper and the drums in JAM mode.

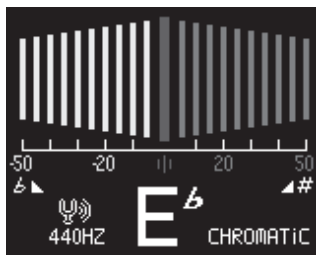
● Preset mode

There are 2 preset displays on MG-300: Preset Name and the Pedalboard view. Push and hold the EDIT button to change the view.



● Tuner

Don't forget to tune your guitar before you start playing. Push the both UP/DOWN footswitches at the same time and use the chromatic tuner when you need.



Select Knob



SELECT

- Preset Screen: Turn the knob clockwise to switch next preset, or anti-clockwise to previous preset. (i.e: 1A 1B 1C 1B etc)
- Edit Screen: Changes the selected drive/effect unit on the signal path, or turns it OFF.

Gain Knob



GAIN

- Edit Screen: Adjusts the first parameter on the selected unit.

Level Knob



LEVEL

- Edit Mode: Adjusts the second parameter on the selected unit.

Operation

Master Knob



MASTER

- Preset Mode: Master output level.
- Edit Mode: Some of the effects have 3 or more adjustable parameters. When the "PGE" appears on the screen, you can use the MASTER KNOB to reach alt-parameters for the selected effect. And you can control the PARAMETER 1 by Gain knob, and PARAMETER 2 by Level knob on the EDIT Screen. You can find the control list on the EFFECTS LIST page.

Edit/EXIT Button



EDIT/EXIT

- You can completely customize a selected preset. Push the EDIT/EXIT button to enter the EDIT page. If you want to quit without saving your tone push the EDIT/EXIT button again

Save Button



SAVE

- Preset Mode: Push the Save button and change the preset name. Choose the letter with Select knob, and move to next letter with Group Module left and right buttons. Then click Save button to store the name, or click the Edit button to cancel.
- Edit Mode: After you build your own tone, push the Save button and keep it forever. Please use the save button often while you are working on your tone. It's better to start a couple of steps back than starting over again.

Mode Button (Output Modes)



MODE

The MG-300 has 5 output modes for better connection to get a perfectly musical sound.

- Studio Direct: In this mode, you can connect the MG-300 directly to a mixer, active speakers, and an audio interface.

You can change the output mode depending on which equipment you are using with the MG-300, you can select the modes by Select knob.

- Combo Front: Using the front instrument input on a combo amplifier.
- Combo Rear: Using the FX LOOP (Return) input on a combo amplifier.
- Stack Front: Using the front instrument input on the head amplifier.
- Stack Rear: Using the FX LOOP (Return) input on the head amplifier.

Jam Button



JAM

MG-300 have a loop station, 24-bit high recording quality, 56 drum beats in 8 different music styles, and a metronome with 7 different sounds. (Please check the JAM Function menu for looper guide)

Tap Button



TAP

You can adjust Delay Time by tapping the button.

EXP Function Assignment

1. Press EDIT/EXIT button to enter EDIT mode.
2. In edit mode, press PEDAL button to adjust assignment for WAH , EFX , AMP , MOD , DLY , RVB.

Pedal Button / Expression Pedal



You can control the volume or the effects with the expression pedal. You can assign the effect by pushing the PEDAL button in edit mode.

WAH: Controls the WAH filter.

EFX: Controls GAIN(DRIVE) parameter of OD/DIST. Controls PITCH parameter of PITCH BENDER.

AMP: Controls LEVEL parameter of AMP.

MOD: Controls MIX level of Modulation effects.

DLY: Controls MIX level of Delay effects.

RVB: Controls MIX level of Reverb effects.

EXP Pedal Calibration

Hold EDIT/EXIT & SAVE buttons for 3 seconds to enter SYSTEM MENU, then move to PEDAL and press EDIT to PEDAL CALIBRATION. Follow the display instruction to do calibration.



Group Module Buttons



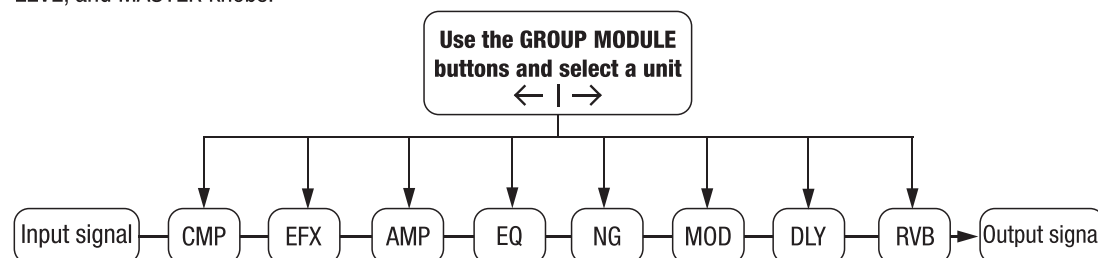
Preset Mode: When you push the Group Module left or right buttons, you can switch between the preset banks. (i.e: 1A 2A 3A 4A)

Edit Mode: You can select a unit on the signal path for customizing the selected effect.

How to write your own tone?



Writing a new tone and/or customizing an existing tone is very simple. Press the EDIT button and use the GROUP MODULE buttons to move the cursor left and right to select an effect unit, and adjust with the GAIN, LEVE, and MASTER knobs.



Effects List

COMPRESSION	
Select Knob	ON/OFF
Gain Knob	Adjusts the compressor output level
Level Knob	Adjusts the compressor sensitivity
EFX – DRIVE EFFECTS / PITCH SHIFTER	
Select Knob	Bypass / Effect Select
DIST+	
Gain Knob	Level
Level Knob	Distortion
RC BST	
Gain Knob	Level / Bass
Level Knob	Gain / Treble
Master Knob	Page 1/2
AC BST	
Gain Knob	Level / Bass
Level Knob	Gain / Treble
Master Knob	Page 1/2
DIST ONE	
Gain Knob	Level
Level Knob	Tone
Master Knob	Distortion
T SCREAMER	
Gain Knob	Level
Level Knob	Tone
Master Knob	Drive
BLUES DRIVE	
Gain Knob	Level
Level Knob	Tone
Master Knob	Drive
MORNING DRIVE	
Gain Knob	Level
Level Knob	Tone
Master Knob	Drive
MODERN DISTORTION	
Gain Knob	Level
Level Knob	Filter
Master Knob	Distortion
REDIRT	
Gain Knob	Level
Level Knob	Tone
Master Knob	Low
CRUNCH	
Gain Knob	Level
Level Knob	Tone
Master Knob	Gain
TUBE DR	
Gain Knob	Level / Low
Level Knob	Drive / High
Master Knob	Page 1/2
RED FUZZ	
Gain Knob	Level
Level Knob	Fuzz
MUFF DIST	
Gain Knob	Level
Level Knob	Tone
Master Knob	Sustain
PITCH BENDER	
Gain Knob	Level
Level Knob	Pitch Bender
Master Knob	Pitch

Effects List

There are 3 options under the AMP menu: Amplifier / Speaker Cabinet / Microphone.

AMP		MIC	
Select Knob	Bypass / Amp Select	Select Knob	Microphone select
Gain Knob	Gain	Gain/Level/Master Knobs	Microphone position Edge/Middle/Center
Level Knob	Presence		
Master Knob	Level		
SPEAKER CABINET		MICROPHONE LIST	
Select Knob	Speaker Cabinet Select		DYNAMIC E906
Gain Knob	Bass		DYNAMIC SM57
Level Knob	Middle		CONDENSER U87
Master Knob	Treble		CONDENSER C414
AMP LIST		SPEAKER CABINET LIST	
	JAZZ CLEAN		JAZZ 212
	DELUXE RVB		BLACK 112
	BASS MATE		TWEED 410
	TWEEDY		TWEED 112
	TWIN RVB		TWIN 212
	HIWIRE		CUSTOM 412
	CLASS A 15		BLUE 112
	CLASS A 30		BLUE 212
	PLEXI 100W		GREEN 412
	PLEXI 45		G12L 412
	BRIT 800		T75 412
	1987X 50W		V30 412
	SLO 100		SLO 412
	FRIEDMAN		HBE 412
	DUAL RECT		RECT 412
	DIE VH4		BOTM 412
	VIBRO KING		VIBRO 212
	BUDDA		EVL 112
	MR Z 38		BUTQ 212
	SUPER RVB		SUPER 212
	BRIT BLUES		BRIT 212
	MATCH D30		DC 212
	BRIT 2000		G12M 412
	UBER HIGAIN		UBER 412

You can choose an amp and a speaker cabinet separately, and make your own combination.

Effects List

EQ (You can adjust 6-band equalizer)	
Select Knob	Bypass / Activate EQ
Group Module Buttons	Select the EQ frequencies to control with GAIN/LEVEL/MASTER knobs.
Gain Knob	100 Hz / 800 Hz levels
Level Knob	200 Hz / 1.6 kHz levels
Master Knob	400 Hz / 3.2 kHz levels

NG (Nosie Gate)	
Select Knob	Bypass / Activate
Gain Knob	Threshold
Level Knob	Decay

MOD (Modulation effects)	
Select Knob	Bypass / Mod Effect Select

CE-1 CHORUS	
Gain Knob	Depth / Mix
Level Knob	Rate / Pre-Post
Master Knob	Page 1/2

ST CHORUS	
Gain Knob	Depth / Mix
Level Knob	Rate / Pre-Post
Master Knob	Page 1/2

FLANGE	
Gain Knob	Depth / Mix / Pre-Post
Level Knob	Rate / Width
Master Knob	Page 1/2/3

FLANGER	
Gain Knob	Depth / Mix / Pre-Post
Level Knob	Rate / Width
Master Knob	Page 1/2/3

PH90 PHASER	
Gain Knob	Depth
Level Knob	Rate
Master Knob	Pre-Post

PH100 PHASER	
Gain Knob	Depth
Level Knob	Rate
Master Knob	Pre-Post

CHORUS +	
Gain Knob	Depth / Mix
Level Knob	Rate / Pre-Post
Master Knob	Page 1/2

U-VIBE	
Gain Knob	Depth / Volume / Pre-Pos
Level Knob	Speed / Chorus-Vibe
Master Knob	Page 1/2/3

TREMOLO	
Gain Knob	Depth
Level Knob	Speed
Master Knob	Pre-Post

ROTARY SPEAKER	
Gain Knob	Balance / Dry
Level Knob	Speed / Pre-Post
Master Knob	Page 1/2

EH CHORUS	
Gain Knob	Depth / Mix
Level Knob	Rate / Pre-Post
Master Knob	Page 1/2

Effects List

DLY (Delay effects)	
Select Knob	Bypass / Delay Effect Select
ANALOG DELAY	
Gain Knob	Time / Mix / Sub-Division
Level Knob	Feedback / Pre-Post
Master Knob	Page 1/2/3

MEMORY GUY	
Gain Knob	Time / Mix / Sub-Division
Level Knob	Feedback / Pre-Post
Master Knob	Page 1/2/3

DIGI DELAY	
Gain Knob	Time / Mix / Sub-Division
Level Knob	Feedback / Pre-Post
Master Knob	Page 1/2/3

MOD DELAY	
Gain Knob	Time / Mix / Pre-Post
Level Knob	Feedback / Mode / Sub-Division
Master Knob	Page 1/2/3

TAPE ECHO	
Gain Knob	Time / Mix / Pre-Post
Level Knob	Feedback / Head / Sub-Division
Master Knob	Page 1/2/3

REVERSE DELAY	
Gain Knob	Time / Mix / Sub-Division
Level Knob	Feedback / Pre-Post
Master Knob	Page 1/2/3

ANALOG DELAY	
Gain Knob	Time / Mix / Sub-Division
Level Knob	Feedback / Pre-Post
Master Knob	Page 1/2/3

ANALOG DELAY	
Gain Knob	Time / Mix / Pre-Post
Level Knob	Feedback / Width / Sub-Division
Master Knob	Page 1/2/3

RVB (Reverb effects)	
Select Knob	Bypass / Reverb Effect Select
ROOM REVERB	
Gain Knob	Mix
Level Knob	Decay
Master Knob	Pre-Post

HALL REVERB	
Gain Knob	Mix
Level Knob	Decay
Master Knob	Pre-Post

PLATE REVERB	
Gain Knob	Mix
Level Knob	Decay
Master Knob	Pre-Post

SPRING REVERB	
Gain Knob	Mix
Level Knob	Decay
Master Knob	Pre-Post

JAM Function

Push the Jam button and activate the Looper function, you can select a beat and Play/Stop drums with the bank “UP” footswitch.

And use the looper actions with bank “DOWN” footswitch.



Push the LOOP footswitch to record, and push again to finish recording, the recorded track will start the loop play. During the loop play, push the footswitch and record another track (overdub). After you record second or more overdub tracks: Pushing and holding the LOOP switch for 1 second will stop the last recorded track only.

During the loop play, push the footswitch twice and the loop will stop. After the loop stops, push and hold the loop switch for 1 second to clear the loop.

Drum Beats	
Select Knob	Adjust the drum tempo 40 bpm – 240 bpm
Gain Knob	Beat select
Level Knob	Drum volume
Master Knob	Loop volume

Group Module Buttons

Select the music style

← | →

ROCK	COUNTRY	BLUES	METAL	FUNK
1. Standard	1. Walk Line	1. Slow Blues	1. Double Bass	1. Bounce
2. Swing Rock	2. Bluegrass	2. Boog Man	2. Close Beat	2. East Coast
3. Power Beat	3. Country	3. Chicago	3. Heavy Bass	3. New Mann
4. Smooth	4. Waltz	4. Road Train	4. Fast Rock	4. R&B Funk
5. Mega Drive	5. Train	5. Blues Rock	5. Holy Case	5. 80s Funk
6. Hard Rock	6. Country Rock	6. Shuffle	6. Open Hi-Hat	6. Soul
7. Boogie	7. Slow	7. Sheriff	7. Epic	7. Uncle Jam

JAZZ	BALLAD	POP	METRONOME
1. Jazz Blues	1. Blues	1. Beach Side	1. Sound 1
2. Circle	2. Groovy	2. Big City	2. Sound 2
3. Walking	3. Slow Rock 1	3. Funky Pop	3. Sound 3
4. Jam	4. Slow Rock 2	4. Modern	4. Sound 4
5. Texture	5. Tutorial	5. Modern 2	5. Sound 5
6. Lick Girl	6. R&B	6. Motown	6. Sound 6
7. Skiffle	7. Gospel	7. Resistor	7. Sound 7

Save Your Preset



After you create your tone, do not forget to SAVE before you switch the preset. When you click the SAVE button, you can edit the preset name.

SELECT KNOB: Choose letter

GROUP MODULE BUTTONS ← | → : Move to the next/previous space

CAUTION

Please use the 9V Negative tip power adapter (included the box) to run MG-300. The instrument jack should be plugged to input to power ON the pedal. When you stop playing, please plug out the input cable and the power cable. Also removing all the connected cables could help to last your cables longer.

Specifications

- Sampling Frequency: 48KHz
- A/D Converter: 32bit
- Frequency Response: 20Hz-20000Hz ±1db
- THD+N: <0.03%
- Dynamic: 110dB
- Input: -20dB
- Output: -10dB
- Power: DC 9V ⊕ ⊖
- Dimensions: 230(L)x160(W)x58(H)mm
- Weight: 754g

*Specifications and features are subject to change without notice.

What's in the box ?

MG-300 x 1, Power adapter x 1, USB cable x 1, User manual x 1, NUX sticker x 1.