

MCGER



Radial

Speaker CAB Simulator

Owner's Manual

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PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Power Supply

Please connect the designated AC adapter to an AC outlet of the correct voltage. Please be sure to use only an AC adapter which supplies 12V DC, ⊕ ⊖ ⊖, center negative. Unplug the AC power adapter when not in use or during electrical storms.

Connections

Always turn off the power and all other equipment before connecting or disconnecting. This will help prevent malfunction and damage to any of the devices. Make sure to unplug all connection cables and power cords before moving this unit. To avoid deformation, discoloration, or other serious damage, do not expose this unit to the following conditions:

- Direct sunlight
- Magnetic fields
- Excessively dusty or dirty location
- Strong vibration or shock
- Heat sources
- Extreme temperature or humidity
- High humidity or moisture

Interference with other electrical devices and Cleaning

Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions. Clean only with a soft, dry cloth.

Handling

Do not apply excessive force to the switches or controls. Do not let paper, metal, or other objects into this unit. Take care not to drop the unit, and do not subject it to shock or excessive pressure.

FCC certification

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

INTRODUCTION

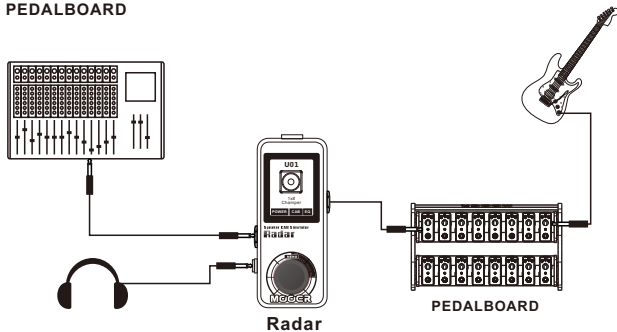
The MOOER RADAR is a full-featured professional speaker simulator which can be a permanent resident at the end of your pedalboard. Not only does it carry 30 cab models but it also has optional microphone and power amp simulation. Ideal for recording or hooked up to your favourite headphones for practice. The RADAR will transform your pedalboard into a complete guitar rig.

MAIN FEATURES

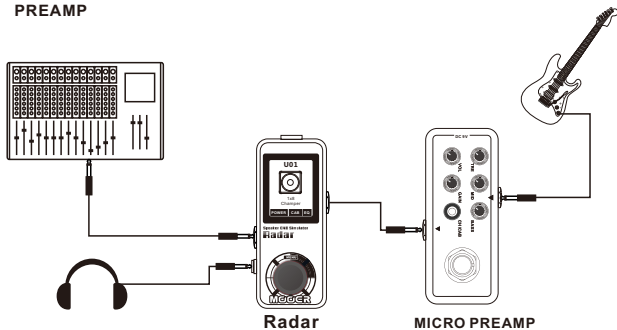
- 30 different speaker cab models
- 11 mic models
- 4 power amp models
- Customizable EQ stage
- Capable of loading custom IRS
- Store and recall up to 36 user presets
- Connect to PC editor via USB
- Supports headphones and lineout

SETUP

PEDALBOARD

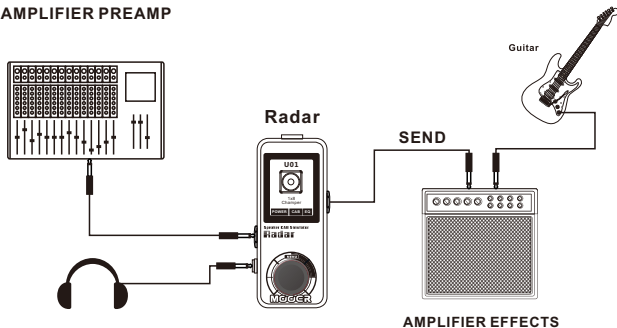


PREAMP

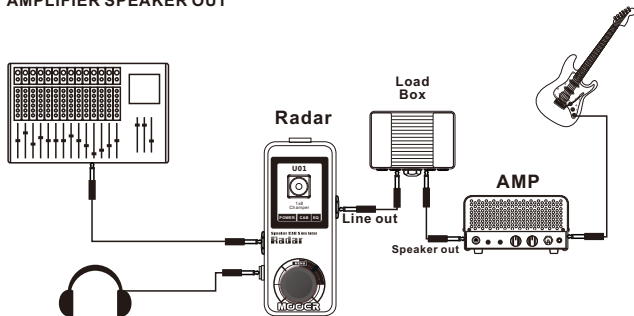


SETUP

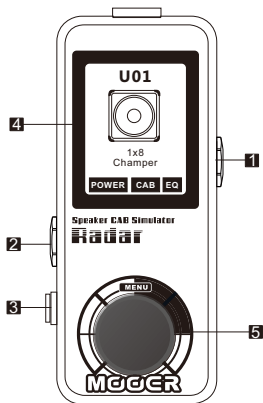
AMPLIFIER PREAMP



AMPLIFIER SPEAKER OUT



PEDAL LAYOUT



1.INPUT

Connect to your pedalboard or preamp output using a 1/4" jack cable

2.OUTPUT

Connect to a soundcard or mixing desk using a 1/4" jack cable for unbalanced output
1/4" TRS stereo jack cable for balanced output

3.HEADPHONE

Connect to your headphones or soundcard using a 1/8" jack cable

4.SCREEN

Displays all menu's and relevant information

5.MENU

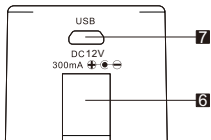
Used to programme and edit RADAR

6.DC IN

Connect to a 12V DC power source

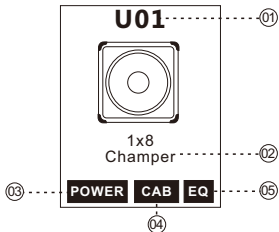
7.MICRO USB

Connect to a computer via micro USB cable for loading custom IR models and editing via the PC software



PRESET PAGE

In the preset selection page the screen will display various information



1. PRESET NUMBER
2. CAB MODEL

3. POWER AMP ON/OFF
4. CAB ON/OFF

5. EQ ON/OFF

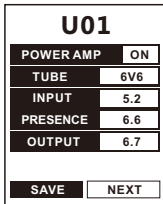
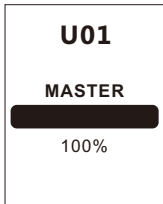


ROTATE the MENU control to scroll through presets

PRESS to access master volume
ROTATE to adjust master volume
PRESS to return to PRESET PAGE

PRESS + HOLD for a second
to edit preset (see below)

PRESS + HOLD for 2 seconds to bypass
PRESS to return to PRESET PAGE



EDITING PRESETS

Editing presets is very easy with the RADAR. All of the parameters and settings are spread out across 3 different edit screens. POWER AMP SCREEN, CAB/MIC SCREEN, EQ SCREEN

To edit a preset

- Select the preset you wish to edit on the PRESET PAGE
- Press and hold the menu control for 1 second to edit the preset
- Press and hold the menu control for 1 second at any point during editing to return to the PRESET PAGE



- Rotate the menu control to scroll through parameters
- Press the menu control to select parameter
- Rotate the menu control to adjust parameter value
- Press the menu control to confirm

POWER AMP SCREEN

U01	
POWER AMP	ON
TUBE	6V6
INPUT	5.2
PRESENCE	6.6
OUTPUT	6.7
SAVE	NEXT

POWER AMP: Turn the power amp modelling on/off

TUBE: Select which power tubes are in the power amp

INPUT: Adjust the power amp input gain

PRESENCE: Adjust the power amp presence

OUTPUT: Adjust the power amp output volume

SAVE: Save the preset

NEXT: Move to CAB/MIC screen

CAB/MIC SCREEN

U01		
CAB	ON	
MODEL		
1.Champer	1x8	
MIC	MD421	
MIC VOL	+04	
C-EDGE	25	
DISTANCE	5	
BACK	SAVE	NEXT

CAB

Turn the speaker cabinet modelling on/off

MODEL

Select the cabinet model

MIC

Select the microphone type

MIC VOL

Adjust the microphone gain level

C-EDGE

Adjust the horizontal position of the microphone in relation to cabinet driver

0 = Centre of speaker cone **30** = Edge of speaker cone

DISTANCE

Adjust the distance between the microphone and the speaker cabinet

0 = Close mic'd cab **50** = Far mic'd cab

BACK

Move to POWER AMP screen

SAVE

Save the preset

NEXT

Move to EQ screen

EQ SCREEN

RADAR contains 3 different post EQ sections which can be activated on the EQ screen.

GRAPHIC G – Designed for use with Guitar

GRAPHIC B – Designed for use with Bass Guitar

PARAMETRIC – Fully customizable parametric EQ

U01	
EQ/Hz	OFF
BACK	SAVE

EQ/Hz

Select EQ type or deactivate the EQ section by selecting OFF

BACK

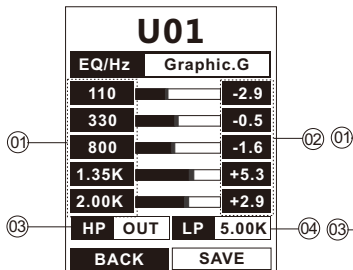
Move to CAB/MIC screen

SAVE

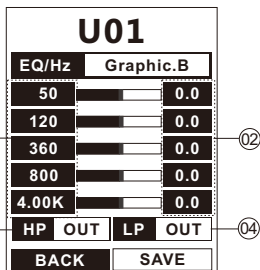
Save the preset

EQ SCREEN

Graphic.G



Graphic.B



1. FREQUENCIES

Select the frequency for each band. These units are measured in Hz.

2. GAIN

Adjust the level of boost or attenuation. These units are measured in +/- dB.
0.0 = no boost or attenuation

3. HP

Activate and adjust a high pass filter

4. LP

Activate and adjust a low pass filter

EQ SCREEN

Parametric

U01			
EQ/Hz		Parametric	
	FREQ	DB	Q
A	40	0.0	0.50
B	40	0.0	0.50
C	40	0.0	0.50
D	40	0.0	0.50
HP	OUT	HP	OUT
BACK		SAVE	

FREQ:Select the frequency for each band

DB:Adjust the level of boost or attenuation

Q:Adjust the Q value of the selected frequency adjustment

HP:Activate and adjust a high pass filter

LP:Activate and adjust a low pass filter

SAVING PRESETS

U01		
CAB	ON	
MODEL		
1.Champer	1x8	
MIC	MD421	
MIC VOL	+04	
C-EDGE	25	
DISTANCE	5	
BACK	SAVE	NEXT

Select SAVE to enter the saving screen

U01	
PRE SET	
U01	
SAVE	CAN CEL

Select the PRESET space you wish to save to

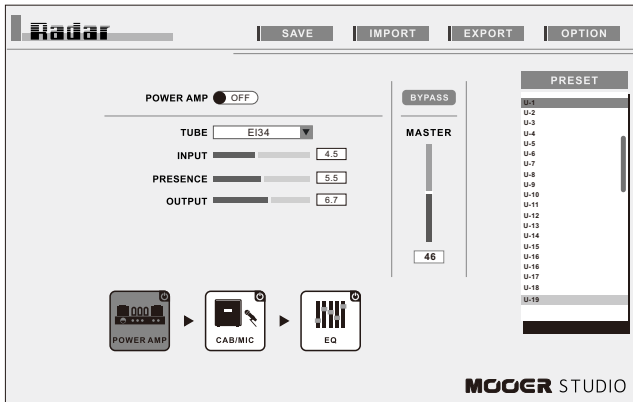
U01	
PRE SET	
U01	
SAVE	CAN CEL

Select save to confirm
Select CANCEL to exit

USB

Connecting your RADAR cab sim to a Windows PC opens up a lot of nice extra features:

- Preset management for importing/exporting presets
- Fast and easy editing of preset parameters
- Downloading your favorite 3rd party IR cab models to the device



Download the PC software from WWW.MOERAUDIO.COM and follow the instructions to get RADAR connected to your PC.

CAB MODEL

CAB MODEL	
MODEL	BASED ON
Champer 1x8	Fender Champ Silverface
V.Champer 1x8	Fender Vibro Champ Silverface
Prince.B 1x10	Fender Princeton Tweed
Prince.S 1x10	Fender 65'princeton reverb
65DLX 1x12	Fender 65 deluxe reverb
57DLX 1x12	Fender 57 tweed deluxe
Kitty 1x12	Bad cat
Ac15 1x12	Vox AC15C1
Twinverb.S 2x12	Fender 70'twin reverb silverface
Twinverb.B 2x12	Fender 67'twin reverb blackface
Matchbox 2x12	Matchless chieftain
AC30.B 2x12	Vox V212H Alnico blue
AC30.S 2x12	Vox AC30 Jimi212 Silver bell
Superverb 4x10	Fender 64'super reverb
59Baseman 4x10	Fender 59'bassman Tweed
1960AG 4x12	Marshall 1960A Green back
1960BT 4x12	Marshall 1960B G12T-75
1960BV 4x12	Marshall 1960B V30
UK.Citrus 4x12	Orange ppc412
Solo.L 4x12	Soldano 4x12 Lucky
Solo.S 4x12	Soldano 4x12 Slant
Rect.S 4x12	Mesa boogie recto standard
Rect.T 4x12	Mesa boogie recto traditional
German.V 4x12	Diezel Rearloaded V30
German.G 4x12	Diezel Rearloaded G12-65Heritage
B.SVT 1x15	AMPEG SVT 15E
B.SVT.S 1x15	AMPEG SVT 15E (Subkick)
B.SVT 4x10	AMPEG SVT 410HE
B.SVT.S 4x10	AMPEG SVT 410HE(Subkick)
B.SVT 8x10	AMPEG SVT 810E

Please Note: All manufacturers and brand names mentioned above are not affiliated with MOOER or RADAR

MIC MODEL

MIC MODEL	
MODEL	BASED ON
Sm57	Shure SM 57 Dynamic
Sm58	Shure SM 58 Dynamic
Md421	Sennheiser MD 421 Dynamic
Md441	Sennheiser MD 441U Dynamic
U47	Neumann U47
U87	Neumann U87
RodeNT1	Rode NT-1
MXL2001P	Marshall MXL 2001P
MXL2003	Marshall MXL 2003
C3000	AKG C3000
C4000B	AKG C4000B

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SPECIFICATIONS

Input: 1/4" mono audio jack. (Impedance: 100k Ω)

Output: 1/4" mono audio jack (Impedance: 470 Ω)

1/8" stereo audio jack (Impedance: 10 Ω)

Sampling rate: 44.1K

Sampling accuracy: 24bit

Signal to noise ratio: 100dB

Frequency Range: 20Hz~20KHz

Power requirements: 12V DC \oplus \ominus

Only use the power supply provided

Current Draw: 300mA

Dimensions: 93.5mm(D) x 42mm(W) x 52mm(H)

Weight: 150g

Accessories: Owner's Manual, Power Supply

**Notes : Any specification's update will not be amended in this manual.*

MOOER

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