

FLAMMA

# FX100

GUITAR MULTI-EFFECTS

**Owner's Manual**



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# PRECAUTIONS

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## **Please read carefully before proceeding**

### **Power Supply**

Please connect the designated adapter to an AC outlet of the correct voltage, Please be sure the adapter supplies 9V 300mA ,center negative . Unplug the adapter when not in use or during electrical storms. Use only the original power supply.

### **Important Safety Instructions**

- 1.** Read these instructions.
- 2.** Keep these instructions.
- 3.** Heed all warnings.
- 4.** Follow all instructions.
- 5.** Do not use this apparatus near water.
- 6.** Clean only with a dry cloth.
- 7.** Do not install near any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8.** Do not install near any heat sources such as radiators, heat registers, stoves or other apparati (including amplifiers)that produce heat.
- 9.** Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade of the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
- 10.** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point

### **FCC certification**

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

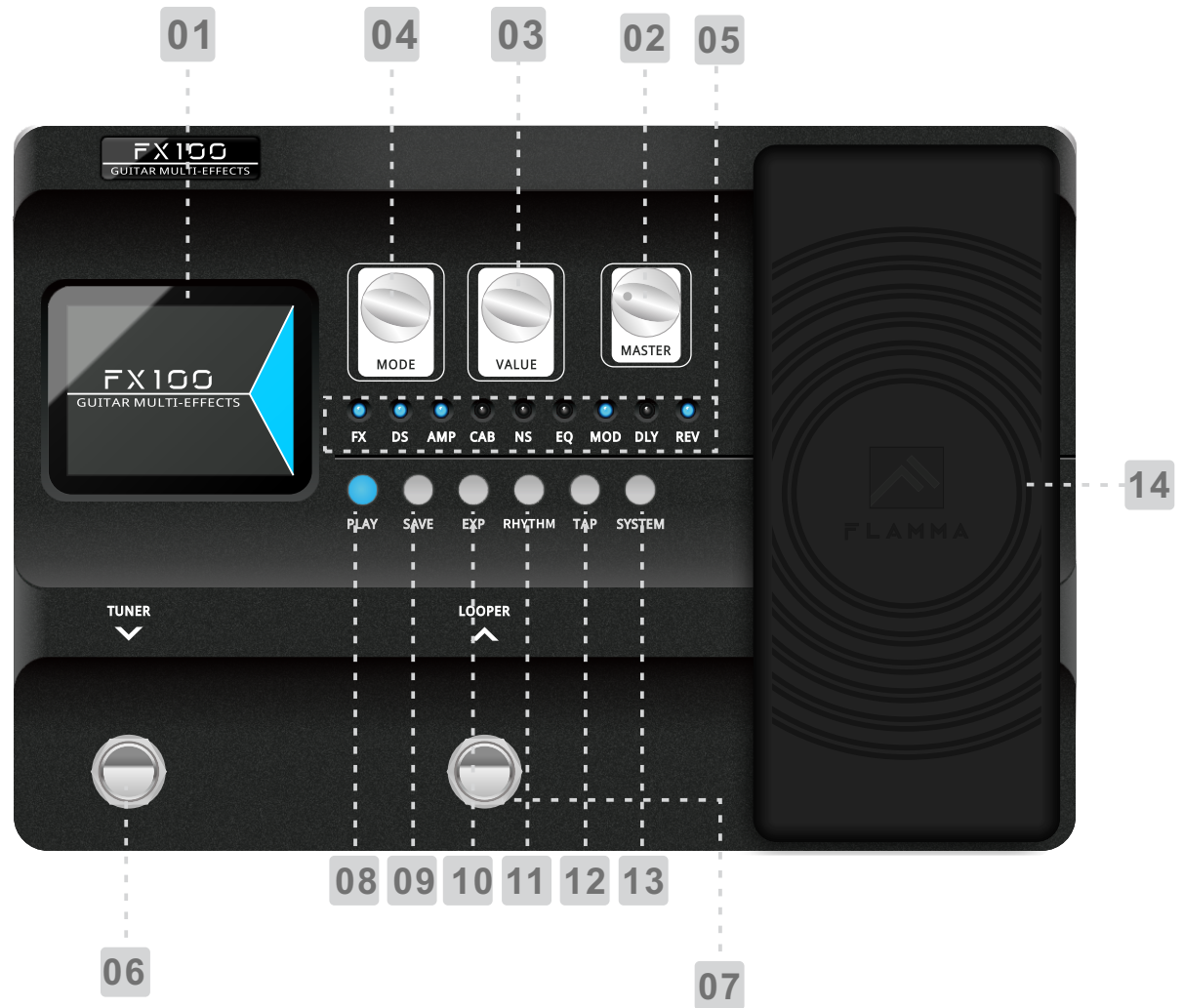
- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

# Main Features

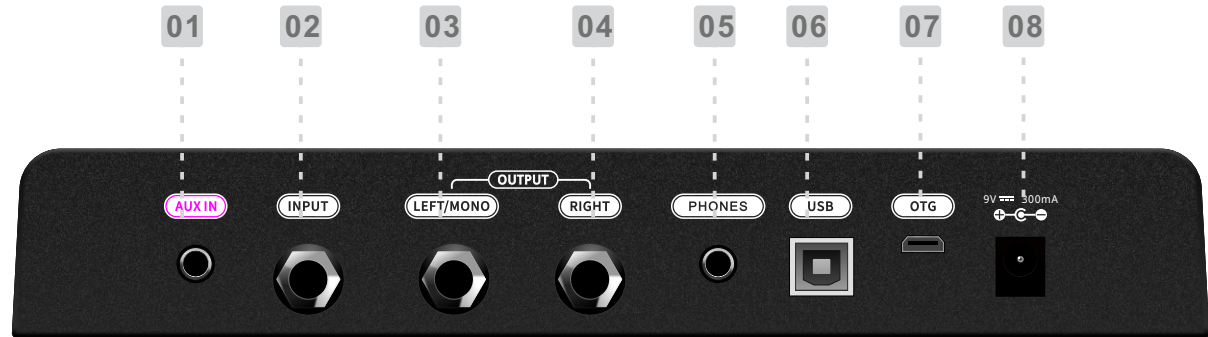
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- 55 classic & modern high-quality guitar AMP models that utilize non-linear digital amp modelling technology (giving a real tube amp tone, feel & response).
- Up to 9 effect types for 151 different effects total.
- 10 user slots to load in your favorite 3rd party IR files.
- 26 IR-based factory speaker cab models
- 200 preset patches.
- Tap Tempo function.
- Expression pedal allows you to control multiple values by one touch.
- USB connectivity for PC editing and direct audio recording to computer
- Fully functioning LOOPER with 80 seconds capacity.
- Headphone output for silent practice.
- Auxiliary audio input.
- 40 drum rhythms and 10 metronome options.
- OTG function supports smart phone recording.

# Lay out



- 
- 01 **Display**
  - 02 **MASTER:** Adjusts the master volume output of FX100.
  - 03 **VALUE:** Used to navigate menu screens and adjust parameters.
  - 04 **MODE:** ON/OFF for respective effect modules.
  - 05 **EFFECT BLOCK**
  - 06 & 07 **▼ and ▲ FOOTSWITCHES:** Press to switch presets. Press and hold the ▼ for TUNER; Press and hold ▲ for Looper. In LOOPER mode, ▼ for REC/PLAY/DUB, ▲ for STOP/CLEAR.
  - 08 **PLAY:** Enter preset menu screen.
  - 09 **SAVE:** Access preset save menu.
  - 10 **EXP:** Access settings and calibration menu for expression pedals.
  - 11 **RHYTHM:** Access edit screen and ON/OFF for drum machine and metronome.
  - 12 **TAP:** Access TAP TEMPO setting.
  - 13 **SYSTEM:** Enter system settings menu.
  - 14 **EXPRESSION PEDAL:** Can be setup to control various parameters and functions in real time. Go to EXP settings and calibration menu to setup.



- 01 **AUX IN:** 1/8" stereo jack to connect an external audio source such as an mp3 player or mobile phone.
- 02 **INPUT:** 1/4" mono to connect your instrument.
- 03 **LEFT/MONO:** 1/4" mono jack.
- 04 **RIGHT:** 1/4" mono jack. Connect to the L output when using a mono setup. Connect to both L and R outputs for true stereo output.
- 05 **PHONE:** 1/8" stereo jack. Connect your headphones to this output for practice or for monitoring when using the FX100 as a soundcard
- 06 **USB:** Type B USB port. Connect a USB cable to a PC computer for ,software updates or preset editing using the dedicated editor software.
- 07 **OTG:** MICRO USB port to connect compatible smart phone or tablet for direct recording.
- 08 **DC IN:** 9V power supply.

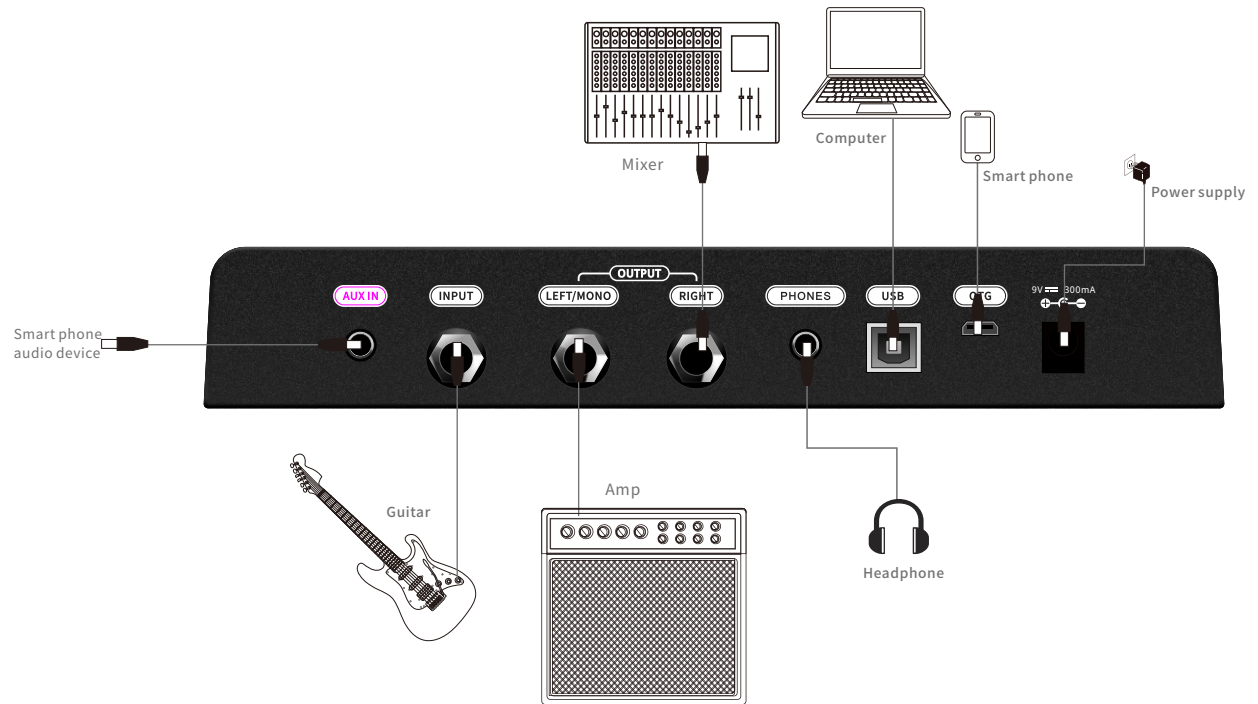
# Controls

## Start

Connect your guitar to the INPUT jack.

Connect the FX100 to your desired equipment (Amplifier, audio interface, mixer)

Connect the power supply (9V DC 300mA) to the DC IN port.



**Notice:** Turn off AMP, CAB modules when connecting to amplifier INPUT.  
Turn off CAB module when connecting to the RETURN of amplifier.  
Turn on AMP, CAB modules when connecting FRFR amplifier.

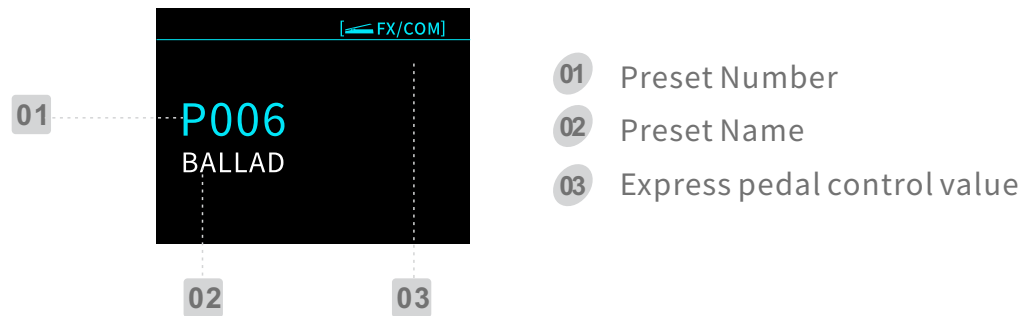


# Display

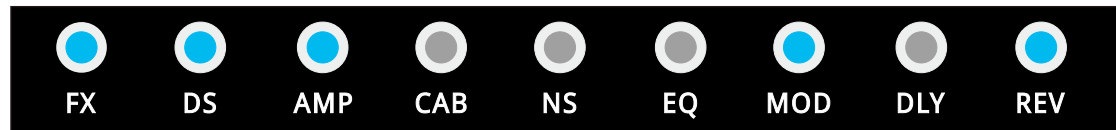
## 1. Select Presets

FX100 has 200 preset slots.

In PLAY mode, press ▲、▼ footswitches or turn the VALUE knob to switch between different presets.



**Notice:** You will see the effect blocks light up to indicate effects chain settings on current preset.



# Presets Editing

FX100 has 9 effect blocks allowing users to use up to 9 types of effects simultaneously in one effects chain. The On/Off effect block LED indicates the On/Off of effects in the effects chain.

## Effect Block On/Off

**Activate effect block:** Rotate the MODE knob to navigate to the effect block you desire. Press the MODE knob to activate the effect block. The screen will indicate this as **ON**

**Bypass effect block:** Rotate the MODE knob to navigate to the effect block you desire. Press MODE to bypass the activated effect block. The screen will indicate this as **OFF**

## Effects Editing

Rotate the MODE knob to navigate to the effect block you desire. Rotate the VALUE knob to the targeted value. Press VALUE to confirm. Rotate VALUE knob to adjust parameters and press VALUE knob again to exit editing.

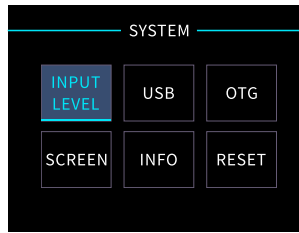


## Volume Level

There are four ways for users to adjust the input/output volume level.



01



02



03

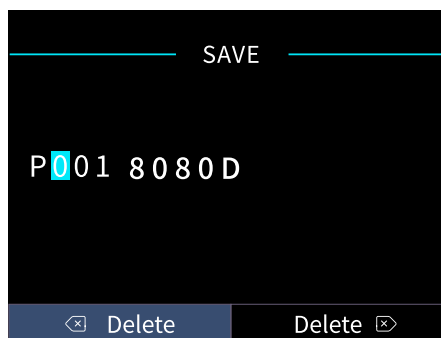


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- 01 MASTER. Rotate the MASTER knob to adjust the master volume level.
- 02 INPUT LEVEL. Enter SYSTEM and select INPUT LEVEL to adjust the level of input signal from your guitar.
- 03 EXP. Expression pedal setting allows users to control volume with the expression pedal.
- 04 Effects include VOLUME value. You can adjust the VOLUME or MST in the effects block to change the volume.

## Saving Presets

After the editing is done, press the SAVE button to save your preset. Select a slot to store. Rotate/press VALUE knob to edit preset name.



## Expression Pedal

The expression pedal of the FX100 can be set in the EXP menu.

### Volume Pedal setting

#### 1. Volume of Effects

Press EXP button to enter expression pedal setting menu.

Select Function. Then select the Level/Volume/MST.

Press expression pedal hard to activate - EXP LED will light up.

## Expression Pedal Settings

Press EXP button and then select FUNCTION.

Select the value you desire to control.

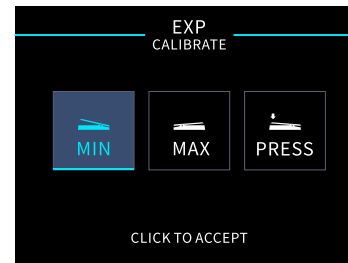
Press the expression pedal to activate.

### CALIBRATE

User can adjust the expression pedal according to their preference.

Press EXP button to enter the menu.

1. Set the pedal in the heel down position and press the VALUE control to confirm
2. Set the pedal in the toe down position and press the VALUE control to confirm
3. Set the pedal in the toe down position and apply forward pressure. While applying forward pressure, press the VALUE control to confirm. This will set the sensitivity of the EXP pedals toe down activation switch.



**Notice:** After the setting is done, press the SAVE button to store the setting.

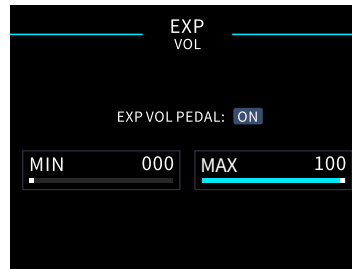
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## 2. Volume Pedal

Press EXP to enter expression pedal setting menu.

Toggle EXP VOL to On.

Volume pedal range can be adjusted in the EXP VOL menu.



## Wah pedal setting

Press EXP button then select FUNCTION.

Select FX/COMP—POSITION.

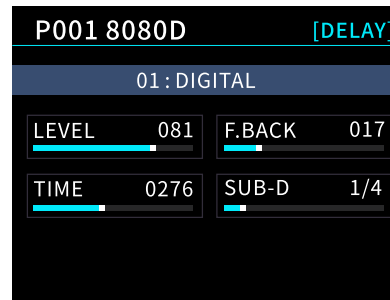
Press the expression pedal to activate.



The style of wah pedal can be selected in the FX/COMP block.

## Tap Tempo

FX100 has built-in tap tempo function. Tap Tempo can control the delay time and the BPM of RHYTHM. Activate the DELAY module then activate the SUB-D module.



Press the TAP button twice to control the delay time.

**Notice:** TAP LED will stay red to indicate DELAY control. TAP LED turns blue when controlling the BPM of RHYTHM.

## Drum Machine

Press the RHYTHM button to enter the drum machine. The indicator will light up and the TAP indicator will turn blue. Drum machine has RHYTHM mode and METRONOME mode. Both of them have Style, BPM, and volume options.

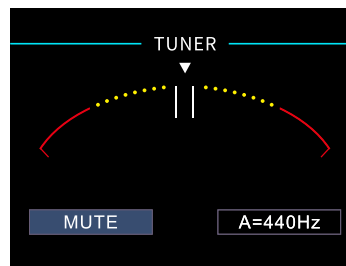
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RHYTHM	
MODE	RHYTHM
STYLE	8BEAT5
BPM	120
VOL	05

**Notice:** The BPM of the drum machine can be adjusted with the TAP function.

## Tuner

- Press and hold ▼ footswitch to enter the Tuner menu.
- The Tuner can be set to MUTE or BYPASS the audio signal.
- Tuner calibration. The FX100 features a chromatic tuning range from 435-445Hz.
- Press any footswitch to exit the Tuner.





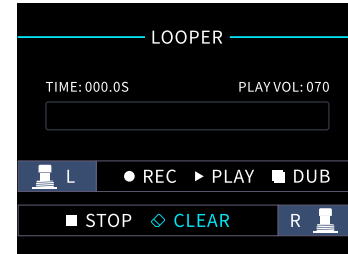
# Looper

Press and hold ▲ footswitch to enter the LOOPER.

## LOOPER Settings

**PLAY VOL :** Playback volume of the looper. Rotate the VALUE knob to adjust looper volume.

**TIME :** Recording time display.



## Looper Operation

- **REC:** Press ▼ footswitch to start recording.
- **PLAY:** During REC/DUB/STOP, press ▼ footswitch to start playback
- **DUB:** During PLAY, press ▼ footswitch to dub
- **STOP:** During PLAY/DUB, press ▲ to stop playback or dub.
- **CLEAR:** Press and hold ▲ for 1 second to clear all the tracks.

**Notice:** 1. After recording past 80 seconds, LOOPER will automatically start playback.  
2. Editing presets will not change the recorded track's tone.

# OTG Function

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FX100 can be used as an audio interface with a smartphone or tablet. Use the OTG cable for connecting your FX100 to a compatible smartphone or tablet. Enter any video/audio recording software for direct video/audio recording. This function can be used for live streaming.

**Notice: Please ensure your portable device has OTG function. The OTG port of the FX100 is Micro USB type.**

## OTG Setting

Enter **SYSTEM-OTG** to adjust the output level of OTG mode.

## System Settings

Press **SYSTEM** to enter system settings menu.

**1. INPUT LEVEL:** Adjust the input level of FX100, range  $-\infty \sim +6\text{dB}$

**2. SCREEN:** Adjust the brightness of the display.

**3. CAB SIM THRU:** The speaker cabinet simulation in the FX100 can be configured to affect various output combinations.

Notice: When the setting of two outputs are different, the CAB sim module will be placed at the end of the effects chain.

**4. RESET:** Resets the unit to factory settings.

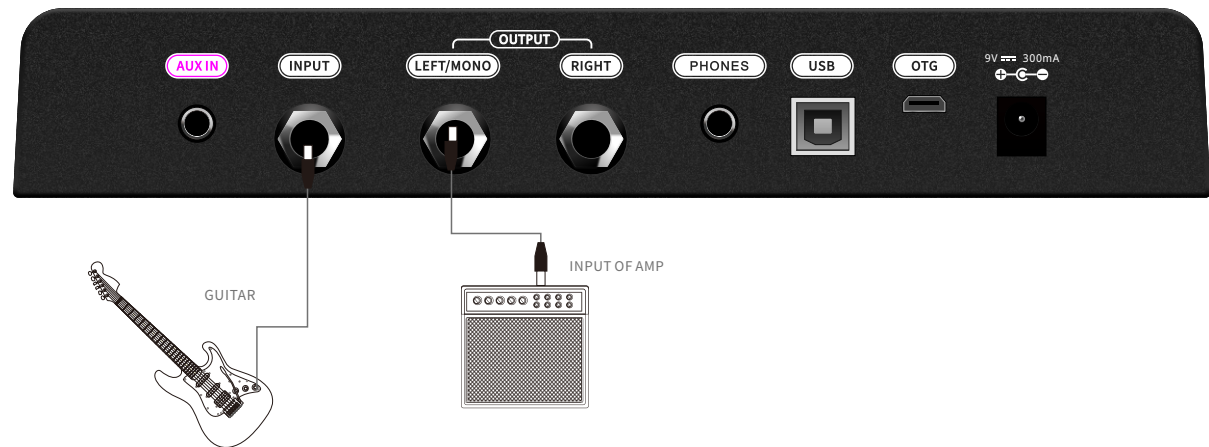
**5. OTG OUT setting:** Enter **SYSTEM-OTG** to adjust the output level of OTG mode.

# Connections

FX100 has two (L and R) main output jacks which can meet most requirements in different situations.

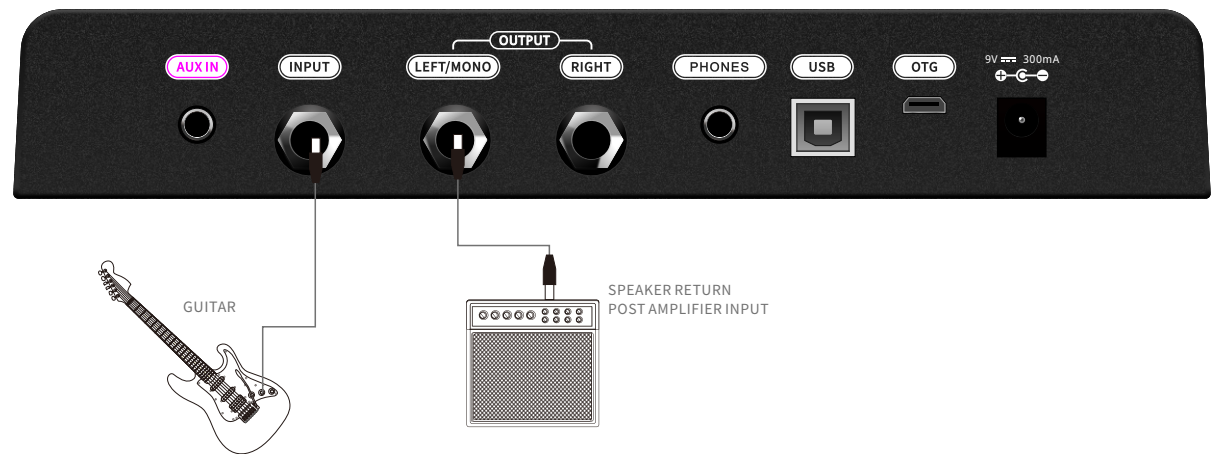
## 1. Connect to the input of your amplifier.

Toggle the AMP and CAB modules off.



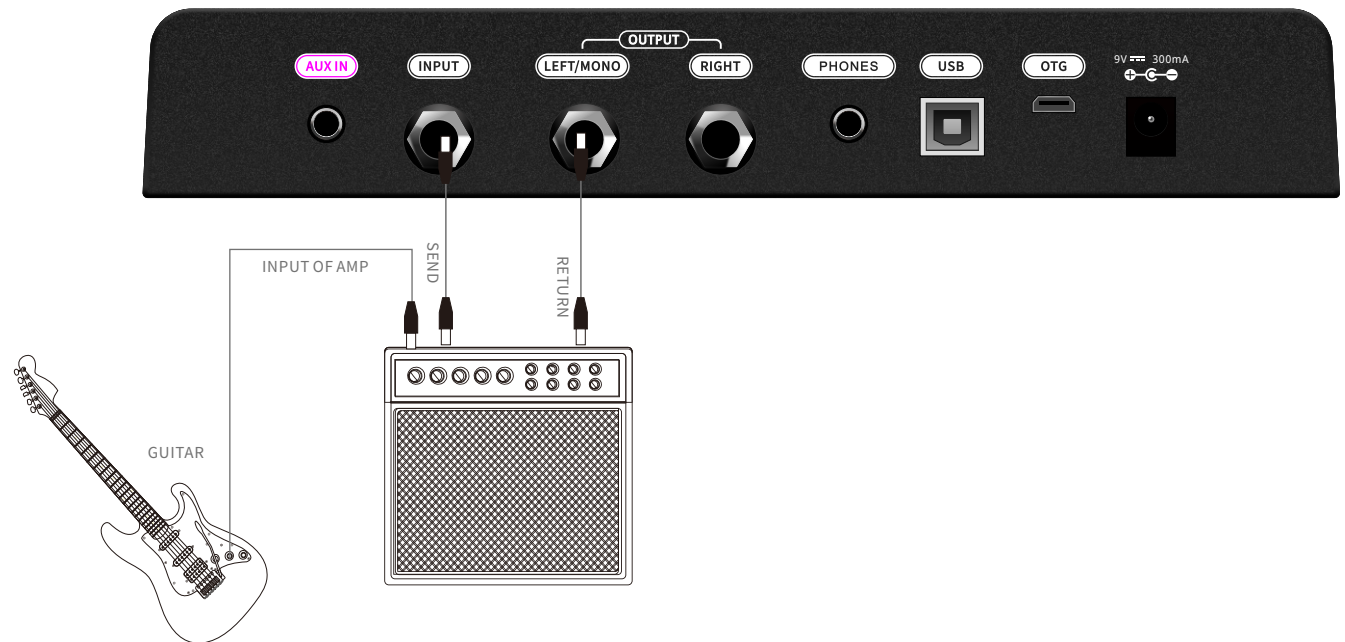
## 2. Connect to power amp.

It is recommended to toggle the CAB module off.

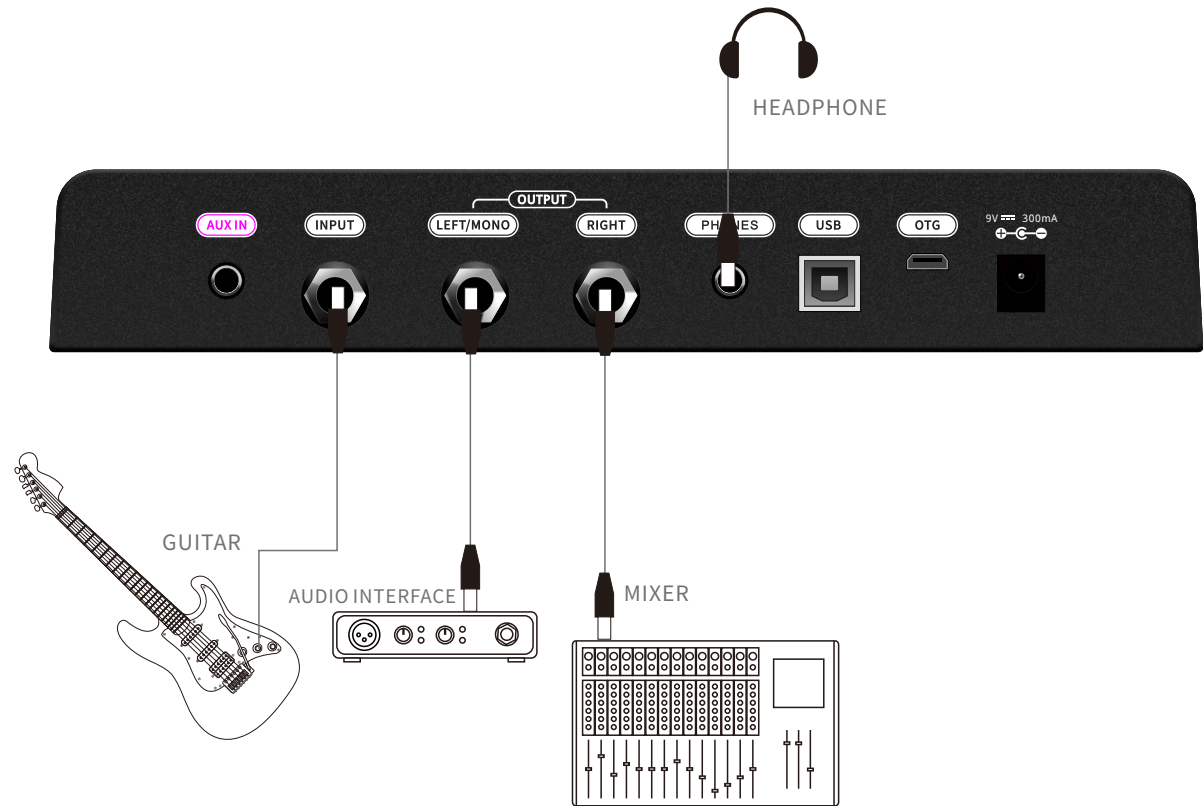


### 3. Connect to FX LOOP.

The FX100 can be used with or in place of traditional modulation stompboxes.



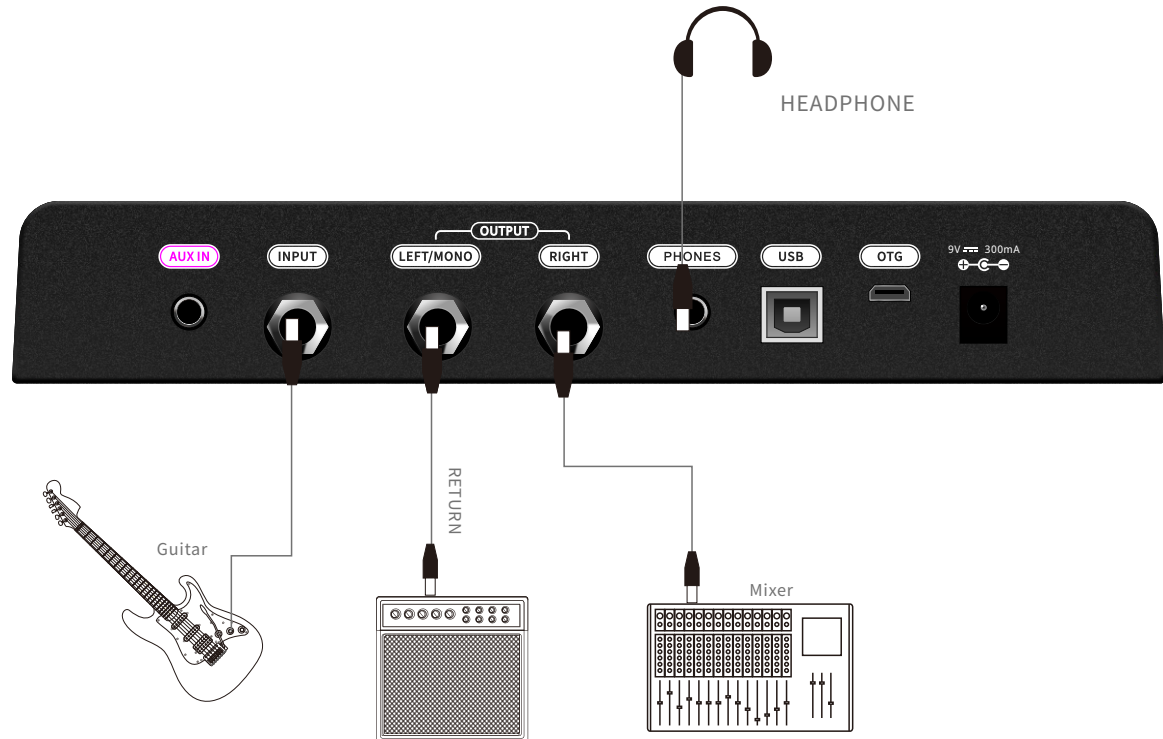
## 4.HOME STUDIO



## 5.LIVE SHOW

L output: With CAB module on.

R output: With CAB module off.



# FX100 STUDIO Software

FX100 can be connected to a Windows PC or MAC via USB for direct recording, software updates, or preset editing using the dedicated editor software.

**Notice: The type-B USB port is for software editing, firmware updates, and OTG port for direct recording.**





# Effects List

FXCOMP		
	MODEL NAME	BASED ON
1	CRY WAH	DUNLOP GCB95
2	535 WAH	DUNLOP Crybaby 535Q
3	AUTO WAH	@WAH
4	TALK WAH AH	RedKid Talk wah ' AH'
5	TALK WAH OH	RedKid Talk wah ' OH'
6	TOUCH WAH	ENVELOPE auto-wah
7	YELLOW COMP	Custom compressor
8	BLUE COMP	Custom compressor
DS/OD		
	MODEL NAME	BASED ON
1	TUBE DR	B.K. Butler Tubedrive
2	808	IBANEZ Ts808
3	PURE BOOST	PURE BOOST
4	FLEX BOOST	FLEX BOOST
5	DDRIVE	BARBER Direct Drive
6	BLACKRAT	ProCo Rat
7	GREY FAZE	Dunlop Fuzz Face
8	MUFFY	EH Big Muff
9	MTL ZONE	BOSS METAL ZONE
10	MTL MASTER	Digitech METAL MASTER
11	OBSESSIVE DIST	Fulltone OCD
12	JIMMY OD	Paul Cochrane Timmy OD
13	FULL DRV	Fulltone Fulldrive 2

14	SHRED	Marshall Shred master
15	BeeBee PRE	Xotic BB Preamp
16	BeeBee +	Xotic BB Plus
17	RIET	Suhr Riot
18	TIGHT DS	Amptweaker TightRock
19	FULL DS	Fulltone GT-500
20	GOLD CLON	Klon Centaur
<b>AMP</b>		
	<b>MODEL NAME</b>	<b>BASED ON</b>
1	65US DX	Fender 65 Deluxe reverb
2	65 USTW	Fender 65 Twin Reverb
3	59 US BASS	Fender 59 Bassman
4	US SONIC	Fender Super Sonic
5	US BLUES CL	Fender Blues Deluxe clean channel
6	US BLUES OD	Fender Blues Deluxe
7	J800	Marshall JCM800
8	J900	Marshall JCM900
9	PLX 100	Marshall Plexi 100
10	E650 CL	Engl E650 Clean
11	E650 DS	Engl E650 Distortion
12	POWERBELL CL	Engl E645 Clean
13	POWERBELL DS	Engl E645 Distortion
14	BLACKNIIIGHI CL	Engl EN650 Blackmore Clean
15	BLACKNIGHT DS	Engl EN650 Blackmore Distortion
16	MARKII CL	Mesa Boogie MARK III Clean

17	MARKIT DS	Mesa Boogie MARK III Distortion
18	MARKV CL	Mesa Boogie MARK V Clean
19	MARKV DS	Mesa Boogie MARK V Distortion
20	TRI RECCL	Mesa Boogie Triple Rectifier Clean
21	TRI REC DS	Mesa Boogie Triple Rectifier Distortion
22	ROCKVRB CL	Orange Rockerverb Clean
23	ROCK VRB DS	Orange Rockerverb Distortion
24	CITRUS 30	Orange AD 30
25	CITRUS 50	Orange OR 50
26	SLOW 100 CR	Soldano SLO-100 Crunch
27	SLOW100 DS	Soldano SLO-100 Distortion
28	DR.ZEE 18 JR	DR.Z Maz18 Jr
29	DR.ZEE RECK	DR.Z Z-Wreck
30	JET100H CL	Jet City JCA100H Clean
31	JET100H OD	Jet City JCA100H Distortion
32	JAZZ 120	Roland JC-120
33	UK30 CL	Vox AC30 Clean
34	UK30 OD	Vox AC30 Overdriven
35	HWT103	Hiwatt DR-103
36	Pv5050 CL	Peavey 5150 Clean
37	P5050 DS	Peavey 5150 Distortion
38	REGAL TONE CL	Tone King Falcon Rhythm
39	REGAL TONE Od1	Tone King Falcon Tweed
40	REGAL TONE Od2	Tone King Falcon Lead
41	CAROL CL	Two Rock Coral Clean

42	CAROL OD	Two Rock Coral Overdriven
43	CARDEFF	Two Rock Cardiff
44	Ev5050 CL	EVH 5150 Clean
45	Ev5050 DS	EVH 5150 Distortion
46	HT CLUB CL	Blackstar HT Stage 100 Clean
47	HT CLUB DS	Blackstar HT Stage 100 Distortion
48	HUGEN CL	Diezel Hagen Clean
49	HUGEN OD	Diezel Hagen Overdrive
50	HUGEN DS	Diezel Hagen Distortion
51	KOCHE OD	Koch Powertone Overdrive
52	KOCHE DS	Koch Powertone Distortion
53	ACOUSTIC 1	Acoustic simulator 1
54	ACOUSTIC 2	Acoustic simulator 2
55	ACOUSTIC 3	Acoustic simulator 3
<b>CAB</b>		
<b>MODEL NAME</b>		<b>BASED ON</b>
1	US DLX112	Fender Deluxe reverb 112
2	US TWN 212	Fender Twin reverb 112
3	US BASS 410	Fender Bassman 410
4	SONIC 112	Fender Super Sonic 112
5	BLUES 112	Fender Blues deluxe 112
6	1960 412	Marshall 1960A 412
7	EAGLE P412	Engl Pro XXL 412
8	EAGLE S412	Engl Vintage XXL 412
9	MARK 112	Mesa Boogie Mark 112

10	REC412	Mesa Boogie Rectifier 412
11	CITRUS 412	Orange Pc412
12	CITRUS 212	Orange Pc212
13	SLOW 412	Soldano SLO 412
14	DRZEE 112	DR.Z Maz 112
15	DRZEE 212	DR.Z Z-Wreck 212
16	JAZZ 212	Roland JC120 212
17	UK 212	Vox AC30 212
18	HW T412	Hiwatt Ap412
19	PV 5050 412	Peavey 5150 412
20	REGAL TONE 110	Tone King Falcon 110
21	TWO STONES 212	Two Rock 212
22	CARDEFF 112	Two Rock 112
23	EV 5050 412	EVH 5150 412
24	HT 412	Blackstar HTV 412
25	GAS STATION 412	Diezel Hagen 412
26	ACOUSTIC 112	1 x 12" cabinet for acoustic amplification
<b>NS</b>		
	<b>MODEL NAME</b>	<b>BASED ON</b>
1	NOISE KILLER	Custom noise gate
2	NTEL REDUCER	Intelligent Noise Reduction
3	NOISE GATE	Digital noise gate
<b>EQ</b>		
	<b>MODEL NAME</b>	<b>BASED ON</b>
1	GUITAR EQ G	5 band graphic EQ for guitar
2	METAL EQ HM	5 band graphic EQ for BASS guitar

3	6BAND EQ G-6	6 band graphic EQ for Guitar
4	CUSTOM EQ	3 band parametric EQ with adjustable frequencies and $\pm 12\text{Db}$ boost/cut
<b>MOD</b>		
<b>MODEL NAME</b>		<b>BASED ON</b>
1	PHASER	Based on custom phaser effect
2	STEP PHASER	Square wave phase shifter
3	FAT PHASER	Low frequency phase shifter
4	FLANGER	Based on custom flanger effect
5	JET-FLANGER	Based on the JET FLANGER
6	TREMOLO	Based on custom tremolo effect
7	STUTTER	Choppy cut off filter
8	VIBRATO	Pitch modulation
9	PITCH SHIFT	Dry signal pitch shifter. Can simulate classic whammy.
10	DETUNE	Fine tune pitch adjustment
11	ROTARY	Simulates a vintage leslie rotating speaker
12	ANA-CHORUS	Stompbox style analog chorus
13	TRI-CHORUS	Rich multi stage chorus
14	RING MOD	Ring modulator
15	Q-FILTER	Static notch filter (like a half cocked wah pedal)
16	HIGH PASS	Static high frequency pass filter
17	LOW PASS	Static low frequency pass filter
18	SLOW GEAR	Auto volume swell
19	LOFI	Low rate sampling filter

DELAY		
	MODEL NAME	BASED ON
1	DIGITAL	Recreates the crystal-clear repeats of the 80' s delay units
2	ANALOG	Modelled after classic stompbox delays with BB chips
3	DYNAMIC	Digital Delay which responds to instrument dynamics
4	REAL	Realistic and natural echoe
5	TAPE	Recreates swirly 70' s tape echo
6	MOD	Digital Delay with modulated repeats
7	REVERSE	Backwards delay
8	DUAL DELAY	2 delays with independent controls
9	PINGPONG	Stereo delay
REVERB		
	MODEL NAME	BASED ON
1	ROOM	Small room reverb
2	HALL	Large room reverb
3	CHURCH	Huge room reverb
4	PLATE	Studio style plate reverb
5	SPRING	Classic spring reverb tank
6	MOD	Reverb with modulation
7	CAVE	Spacious and atmospheric reverb

**\* NOTES: All product names belong to their associated company and are only used here for reference.**

# Specifications

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**Num. Effect Blocks:** 9

**Num. of Effects:** 151

**Num. of Presets:**200

**Input:** 1/4" mono audio jack

**Output:**1/4" mono audio jack

**AUX IN:** 1/8" stereo audio jack

**Headphone Output:** 1/8" stereo audio jack

**OTG port:**MICRO USB port

**Sampling Rate:**44.1 kHz

**Sampling Accuracy:**24 bit

**Dynamic:**98dB

**Impulse Response (IR)**

**Format:**WAV

**Sampling Point:**512 pts

**Power Supply:** 300 mA, negative inside

**Dimension:**230 mm X 155.99 mm X 32.8 mm

**Weight:**859g

**Accessories:**AC adaptor 9V DC,Safety Instruction & Warranty Card, Sticker, Adapter, USB cable, quick guide



