



EN

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PT

Quick Start Guide (Check out [behringer.com](http://behringer.com) for Full Manual)



## EUROPORT PPA2000BT/PPA500BT

Ultra-Compact 2000/500-Watt 8-Channel Portable PA System with Bluetooth Wireless Technology, Wireless Microphone Option, KLARK TEKNIK Multi-FX Processor and FBQ Feedback Detection

A54-00000-0000



**EN**

**EN** Important Safety Instructions

**ES**



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.



Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

- 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 dry cloth.
- 7 Do not block 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 apparatus (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 or 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 where they exit from the apparatus.
- 11 Use only attachments/accessories specified by the manufacturer.



- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.
- 15 The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
- 16 Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



## **LEGAL DISCLAIMER**

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### **LIMITED WARRANTY**

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at [www.music-group.com/warranty](http://www.music-group.com/warranty).

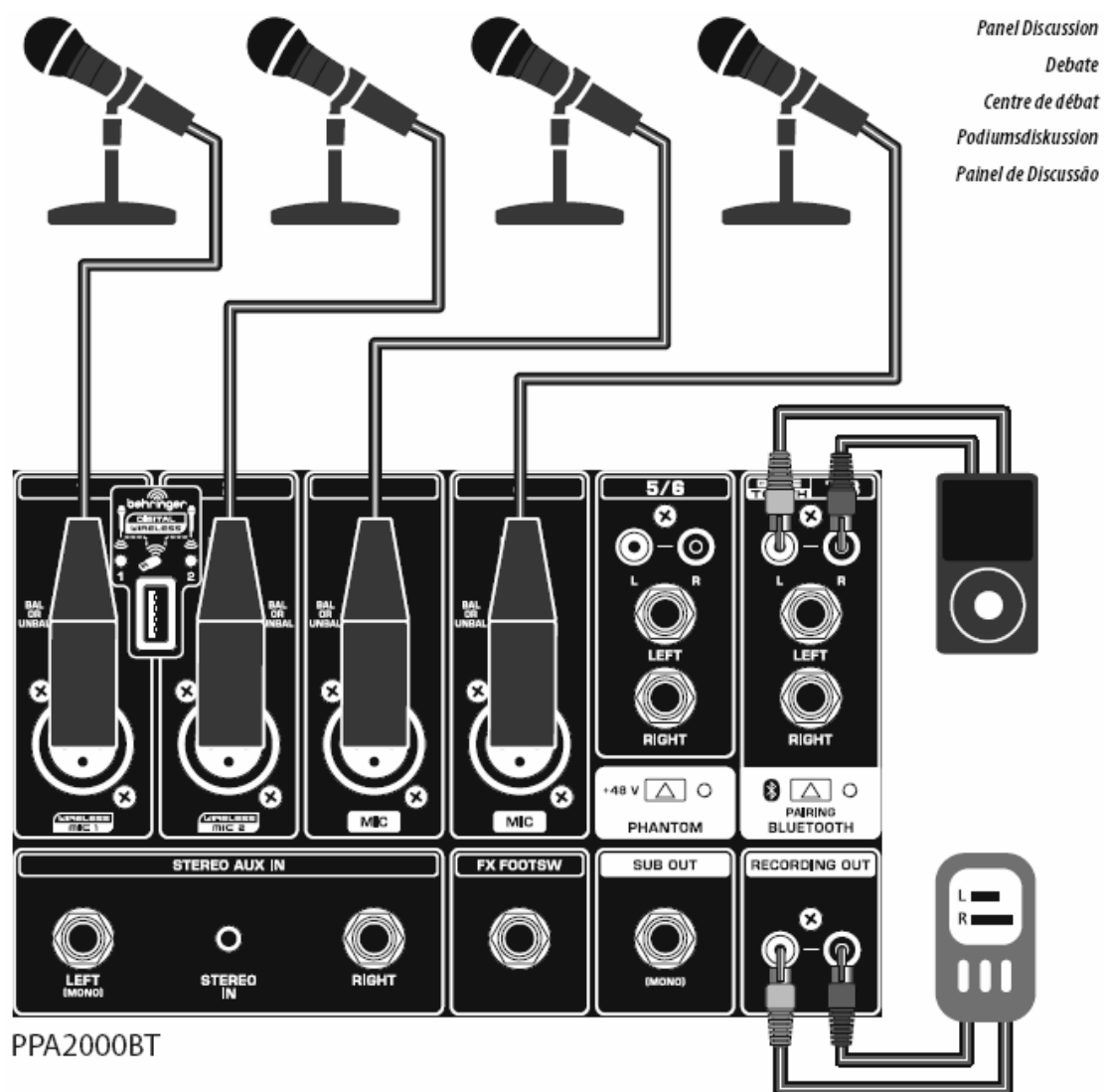
# EUROPORT

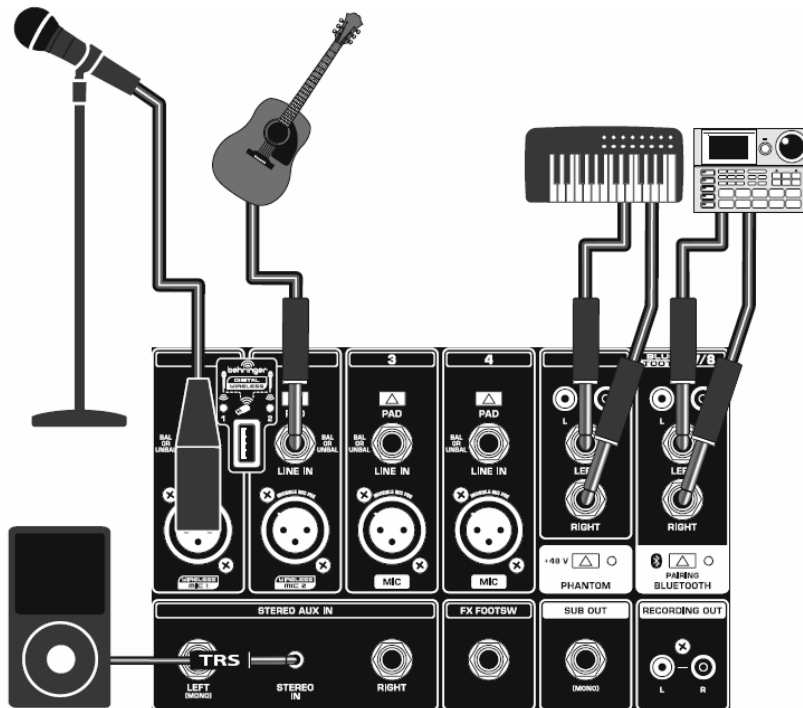
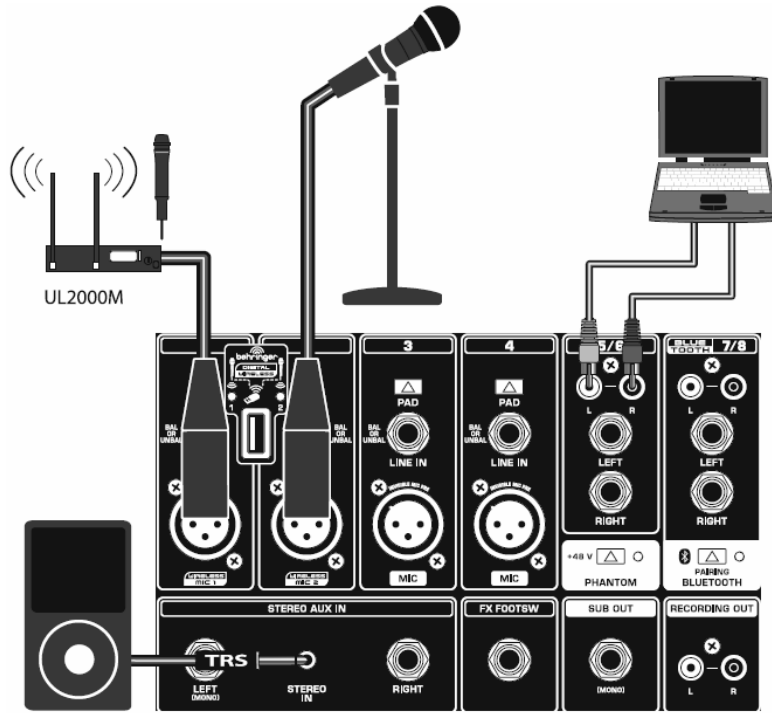
# PPA2000BT/PPA500BT

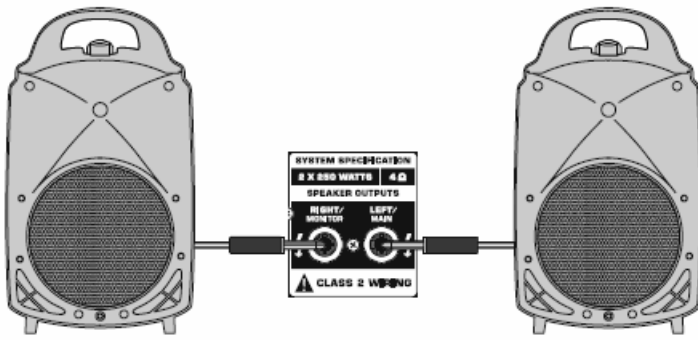
## Set-up

### Step 1: Hook-Up

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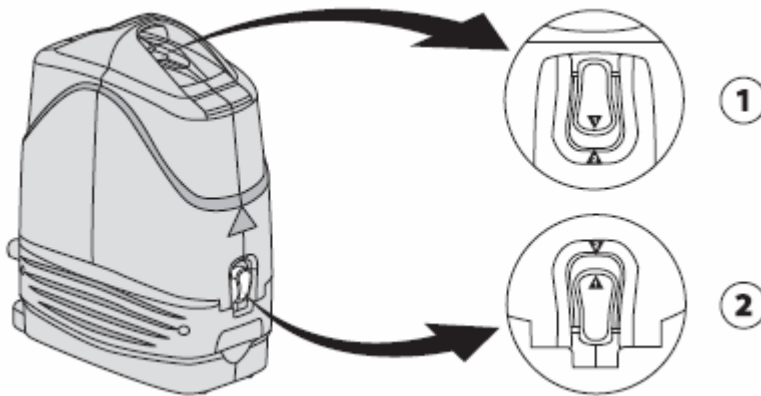




*Speaker hookup*  
*Configuración para altavoces*  
*Connexion des enceintes*  
*Verkabelung von Lautsprechern*  
*Instalação da caixa de som*

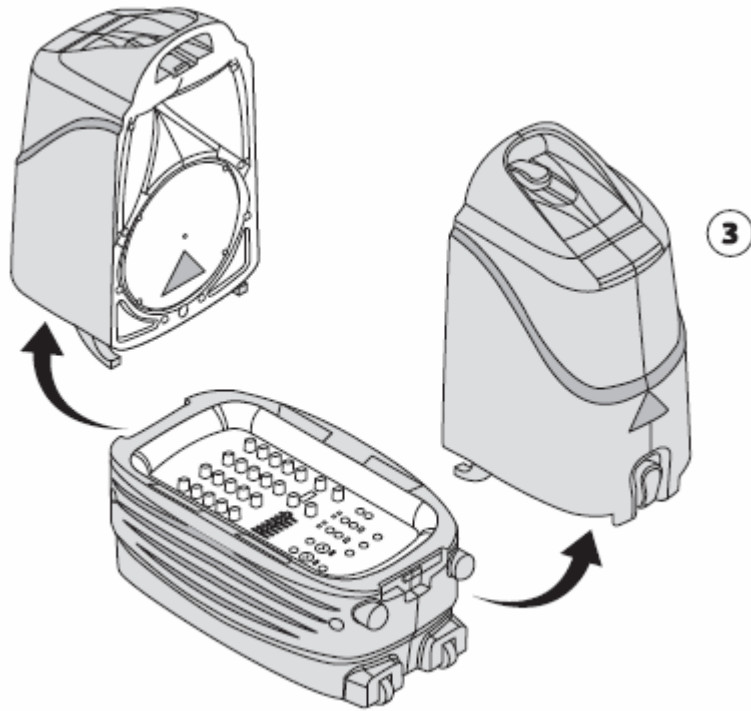
## Step 2: Set-up

1, Release the top latch beneath the carrying handle

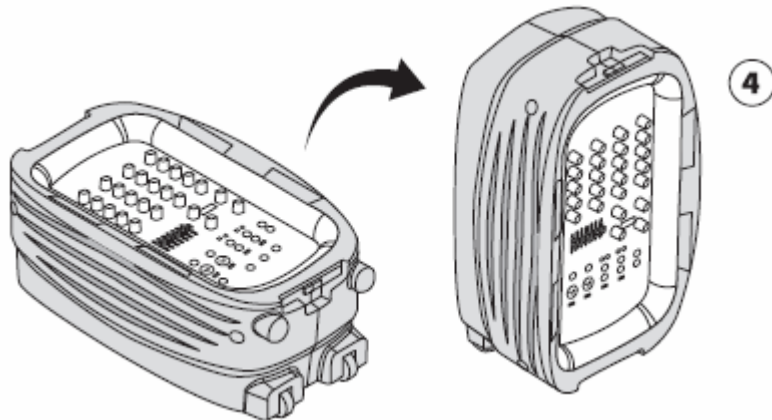


2, Release the side latches by pressing and then lifting them.

3, Remove the speakers and place them in appropriate locations.



4,Stand the mixer upright.(Make sure the include speaker cables can reach both speakers)

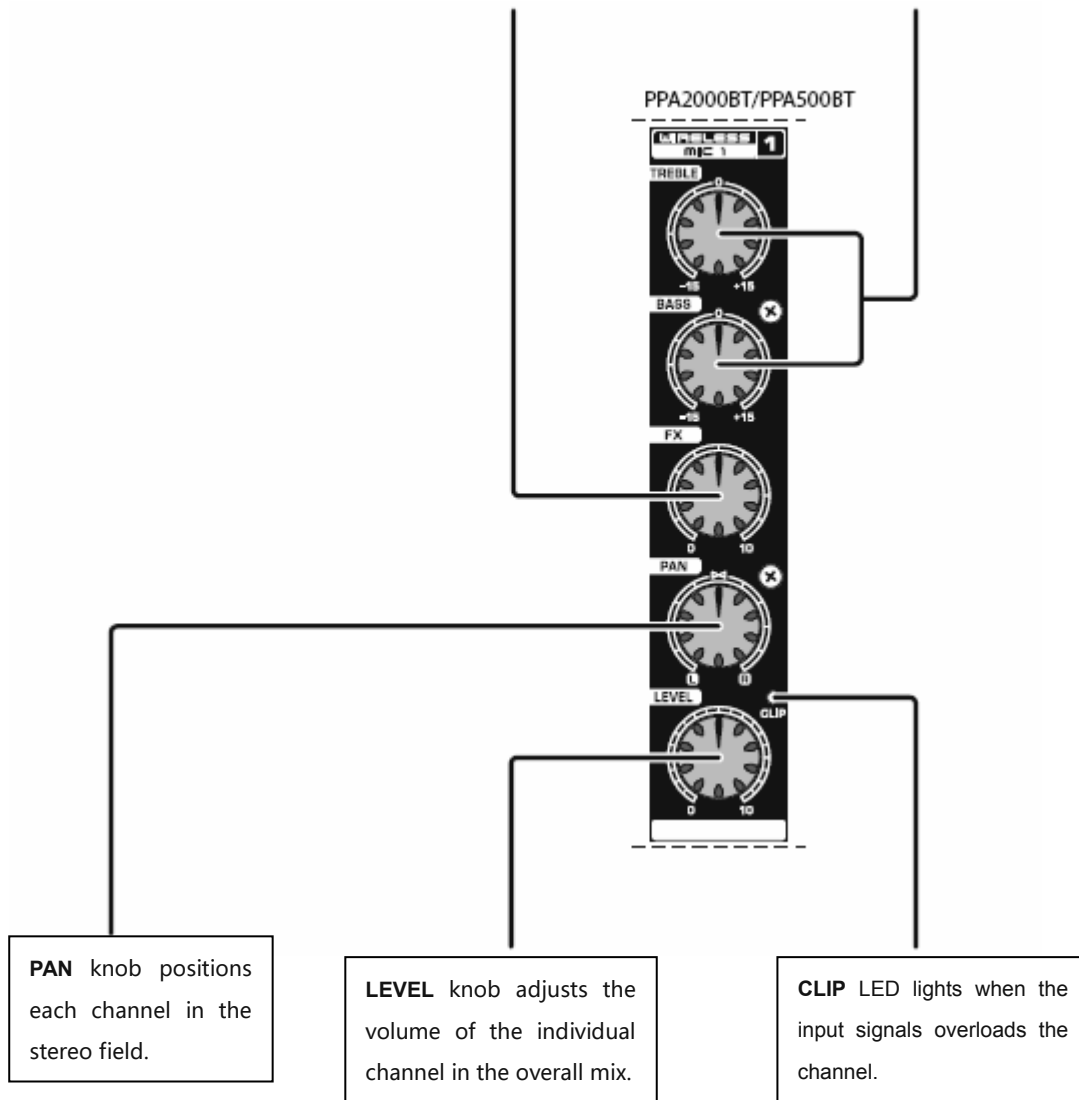




## Step 3: Controls.

**FX** knob determines how much of each channel's signal goes to the DIGITAL EFFECTS PROCESSOR.

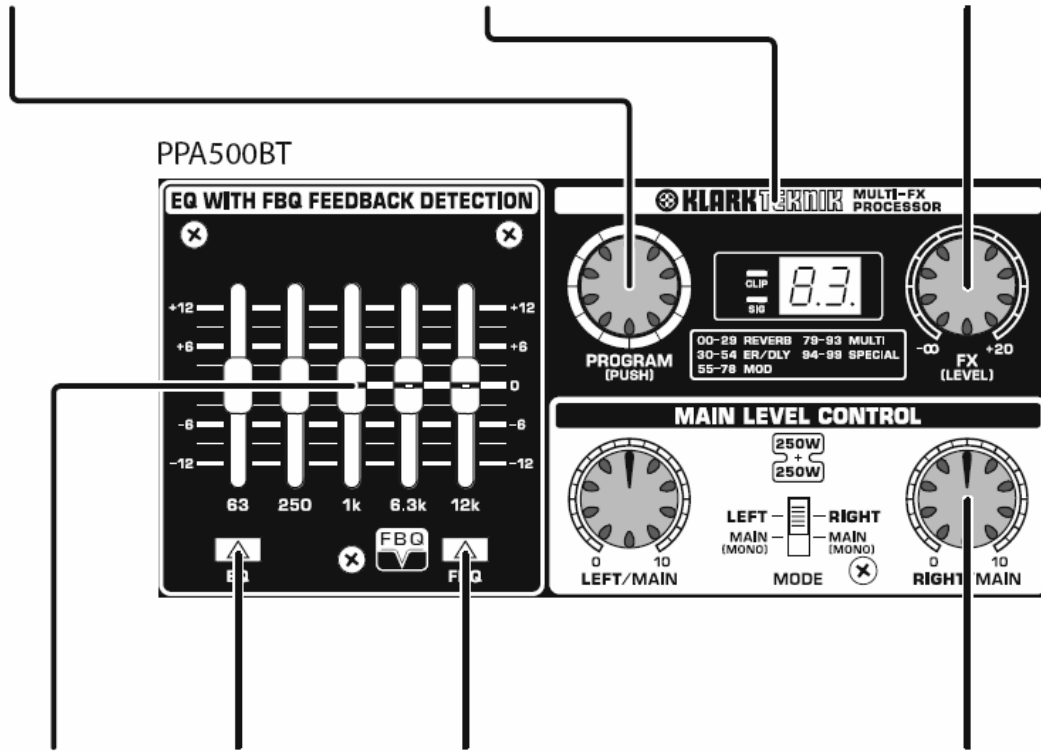
**EQ** KNOBS adjust the high and low frequencies for each channel.



**PROGRAM[PUSH]** knob controls the effects settings. Rotate this knob to scroll through the effect patches, and push to select a patch.

**MULTI-FX PROCESSOR** unit adds a selected sound effect to any channels which have their EFFECTS knob turned up. Effects include reverb, chorus, delay, and pitch shifter.

**FX[LEVEL]** knob controls the amount of effects added to the main mix.



**GRAPHIC EQ**  
adjusts specific frequencies in the sound spectrum.

**EQ** button activates the GRAPHIC EQ.

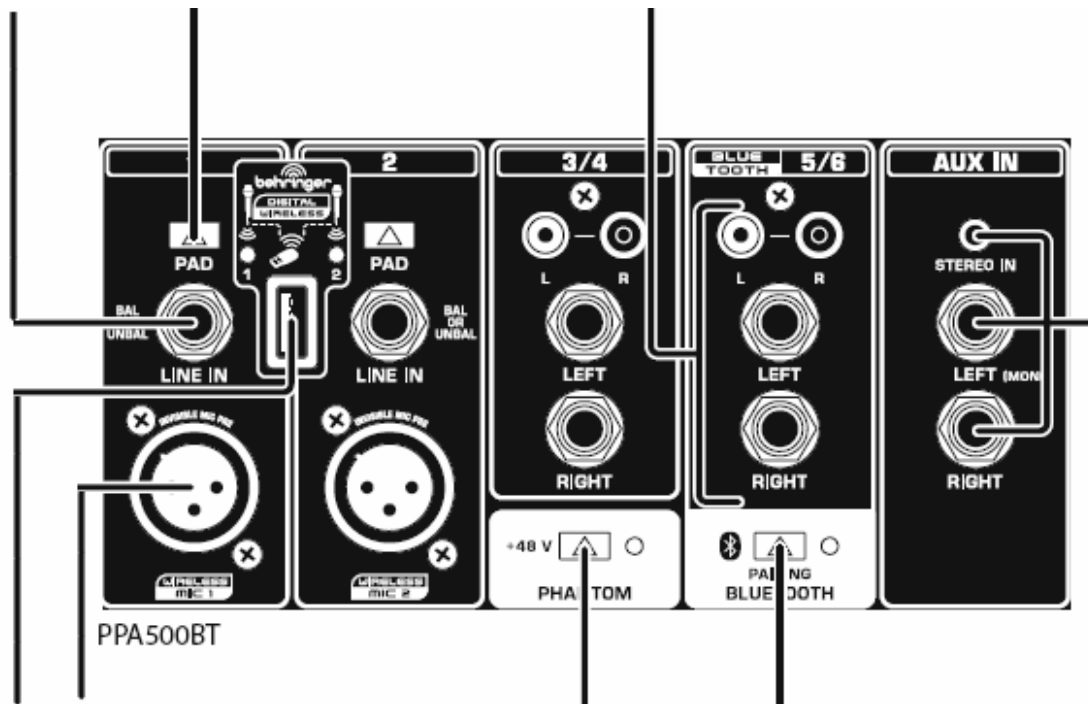
**FBQ** button activates the FBQ detection system. The EQ IN button must also be activated for this feature to work.

**MAIN LEVEL CONTROL**  
adjusts the overall volume of the main mix. The MODE switch selects stereo or mono operation.

**LINE IN** jack connects, CD players, sub-mixers, or other line-level source using cables with 1/4" plugs. These jacks accept both balanced and

**PAD** function reduces the channel input signal by 20dB. Engage this button if the CLIP LED lights up on a channel.

**STEREO CHANNELS** accept and right sends from a single sound source using either RCA cables or 1/4" TS plugs.



**AUX IN** inputs route stereo signals directly into the main mix through either a single 1/8" TRS stereo plug or left and right 1/4" plugs.

**DIGITAL WEIRELESS USB** input accepts the optional BEHRINGER wireless microphone receiver. The LEDs indicate wireless microphone signal input, connecting the wireless microphone system disables the MIC 1 and MIC 2

**MIC INPUT** jacks accept dynamic(hand held)or condenser microphones using XLR cables.

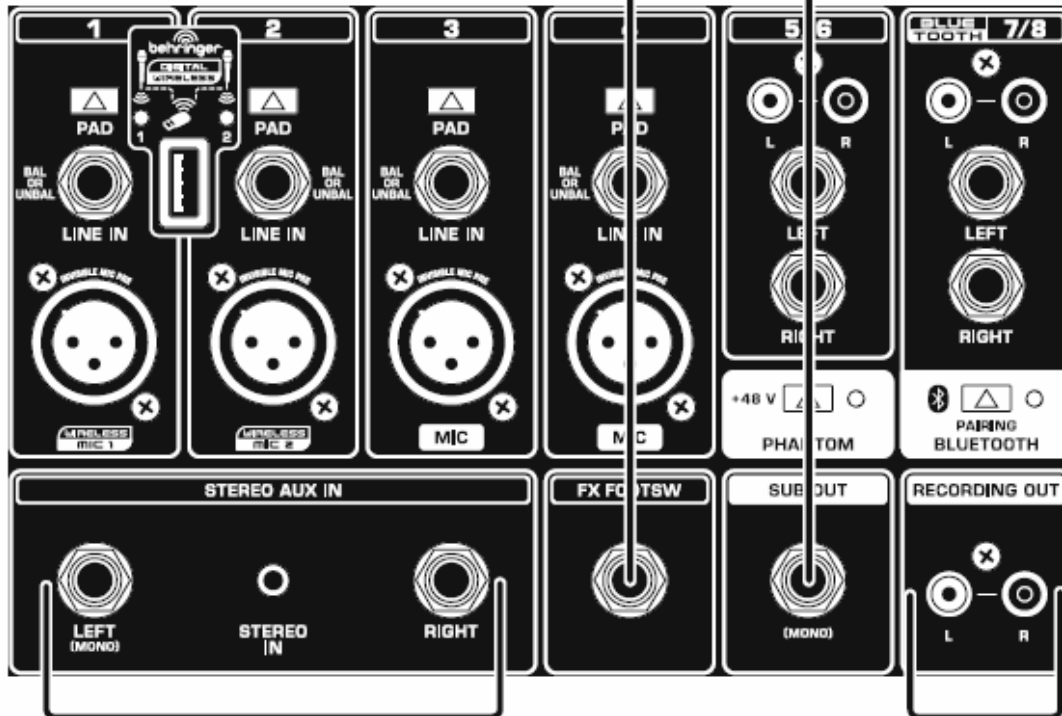
**PHANTOM** button sends 48V of phantom power to power condenser microphones.

**BLUETOOTH PATRING** button and indicator connect your Bluetooth device.

**FX FOOTSW** jack connects an optional footswitch using a 1/4" TRS plug.

**SUB OUT** jack sends the low frequencies of the main mono signal to an active subwoofer or

## PPA2000BT



### STEREO AUX IN

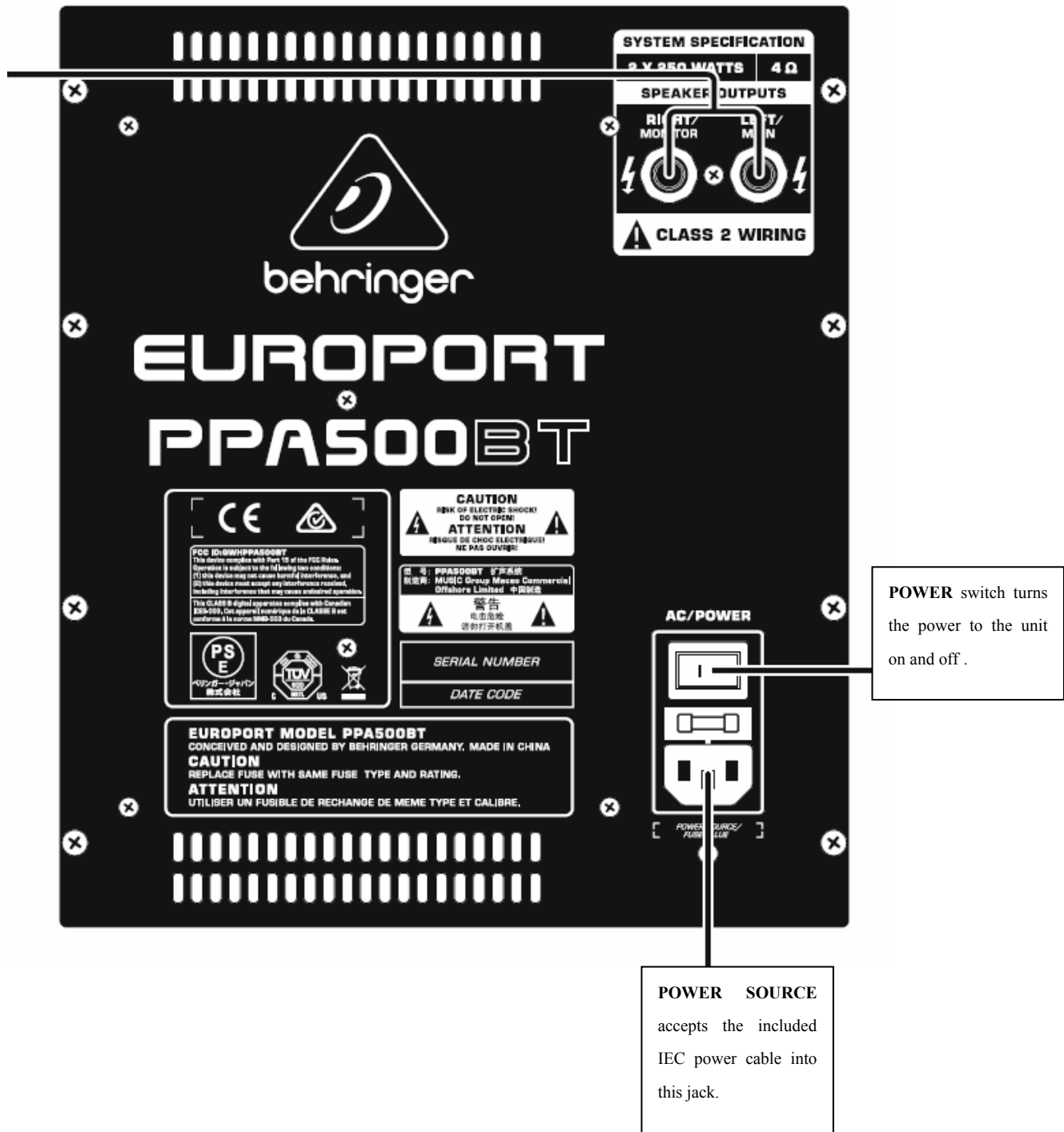
inputs route stereo signals directly into the main mix through either a signal's 1/8" TRS stereo plug or left and right 1/4" plugs.

### RECORDING OUT

jacks send the main mix signal out to an external recording device or another mixer.

### SPEAKER OUTPUTS

connect to the speakers using speaker cables with 1/4" plugs. DO NOT USE INSTRUMENT CABLES AND ONLY USE THE INCLUDED SPEAKERS.



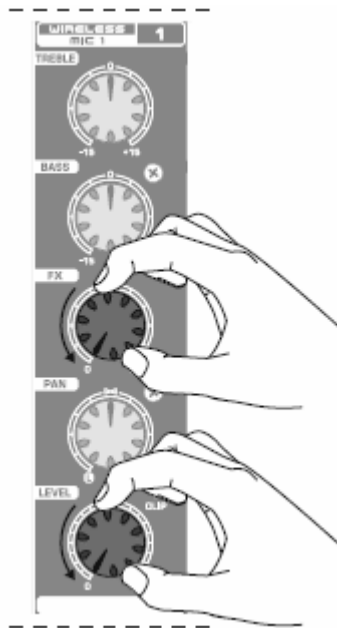
## Step 4: Getting started

1, Connect the included speaker cables to the speakers and to the rear SPEAKER

OUTPUTS on the mixer.

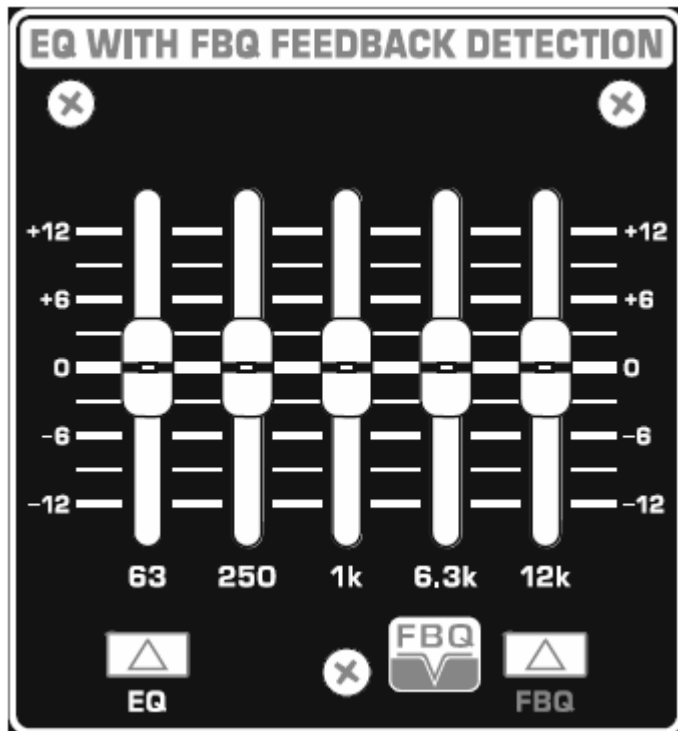
2, Make all the appropriate audio connections to the mixer. Power down all external devices.

3, Set all the channel controls as shown (TREBLE, BASS, and BAL centered; EFFECTS

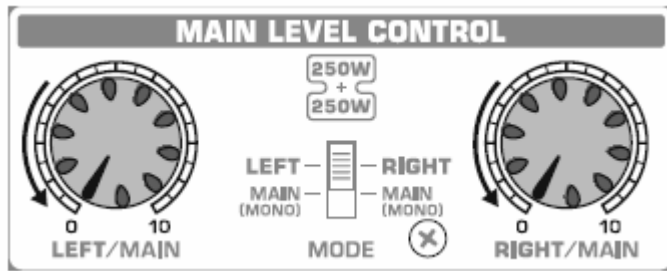


and LEVEL down/off).

4, Center the GRAPHIC EQ faders.

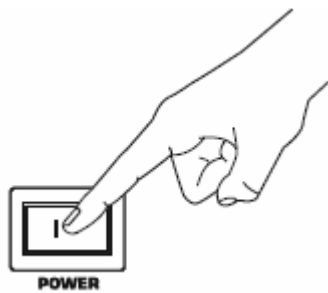


5, Set the MAIN LEVEL CONTROL knobs all the way down.



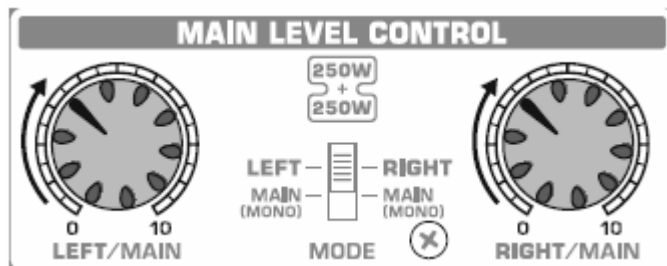
6, Power up all external devices.

7, Power up the PPA2000BT/PPA500BT by pressing the POWER button.



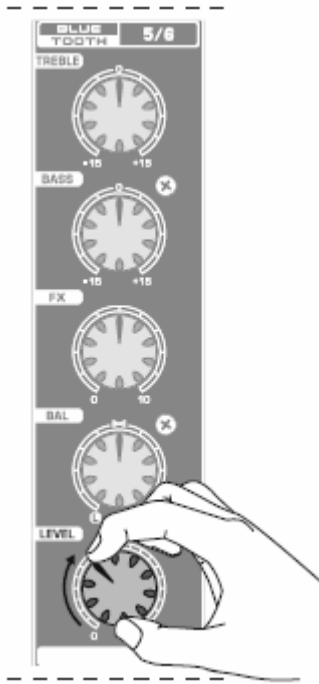
8, If you are using BEHRINGER wireless microphones, plug the wireless dongle into the DIGITAL WIRELESS USB input, The DIGITAL WIRELESS LEDs will light up when the wireless microphones become active.

9, Slowly turn the MAIN LEVEL CONTROL knobs up 1/3 of the way.

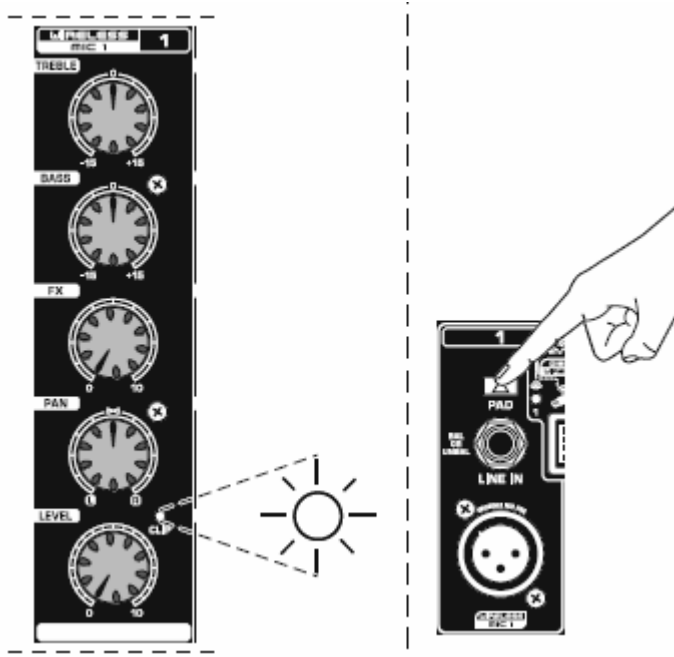


10, Adjust the relative levels of microphones

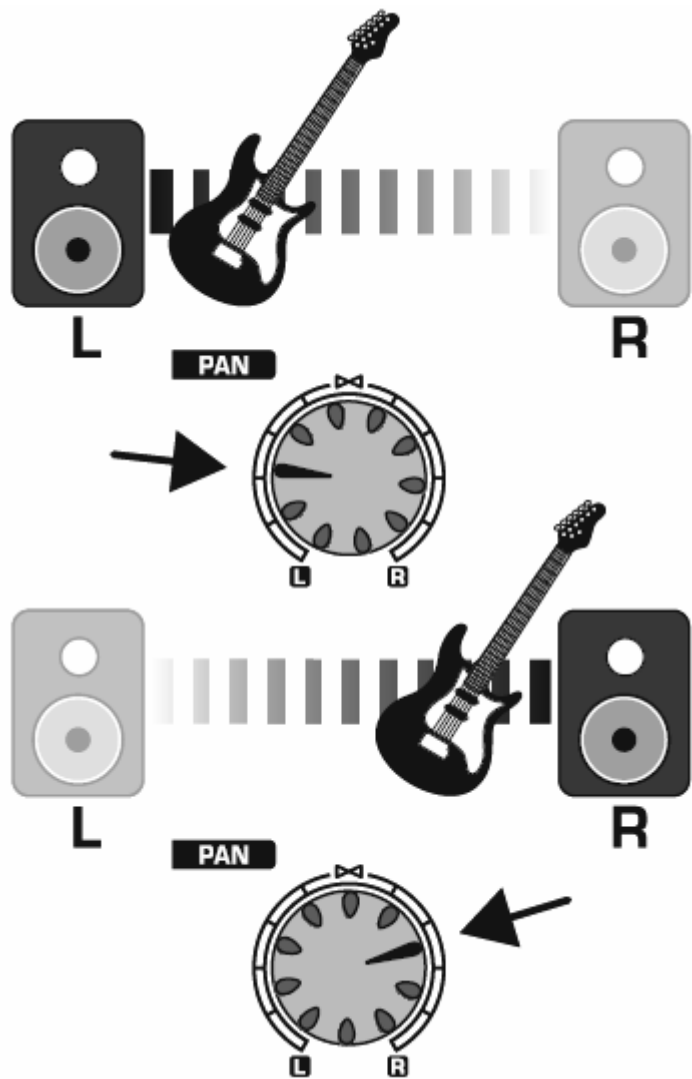




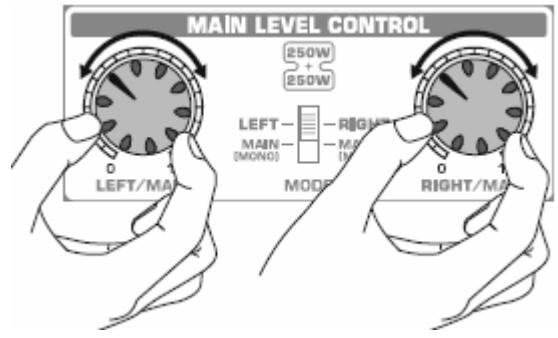
11, If a channel' s CLIP LED lights, press the PAD button. If the PAD button is already engaged, turn the LEVEL knob down. Always use the pad button with line level inputs.



12, Adjust the left-right position of a channel in the stereo field by turning the channel' s PAN knob.



13, Make final volume adjustments using the MAIN LEVEL CONTROL knobs.



## Step 5: Adding Effects

1, Set the FX [LEVEL] knob on the DIGITAL EFFECTS PROCESSOR to approximately a 75% setting.

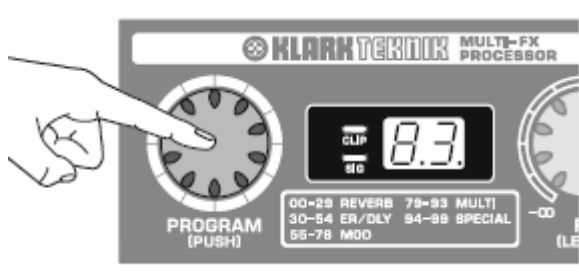


2, Scroll through the available effects by turning the PROGRAM [PUSH] knob.

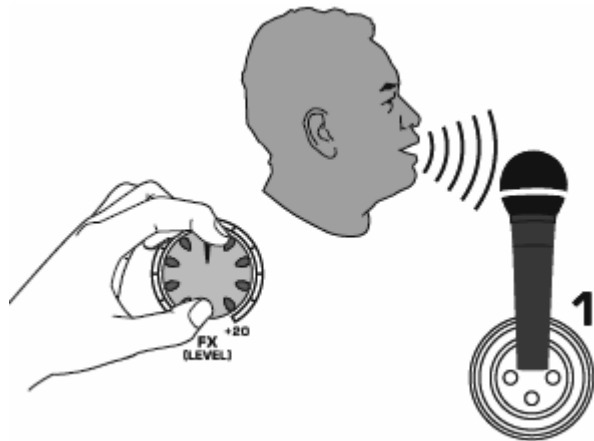
The number in the display will flash.



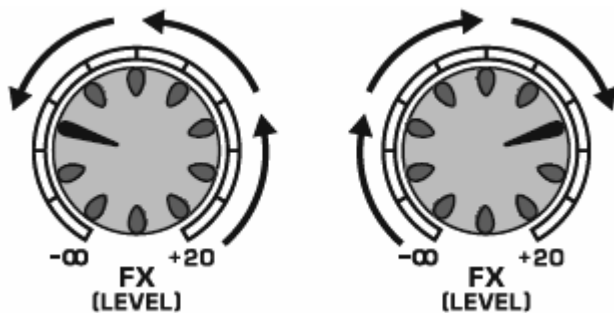
3, Press the PROGRAM [PUSH] knob to select the effect. The number will stop flashing.



4, While speaking, singing, or playing, turn the channel FX knob up to the desired level on each channel to which you wish to add effects.



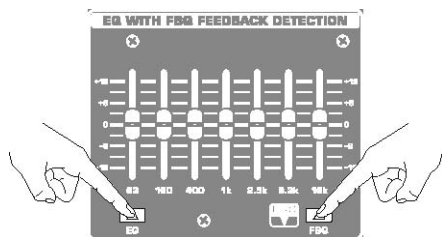
5, Adjust the FX [LEVEL] knob on the DIGITAL EFFECTS PROCESSOR up or down from the initial 75% setting to achieve your desired overall effects level in the main mix.



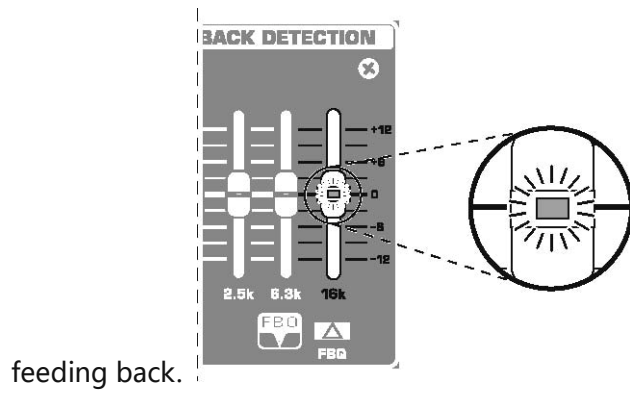
## Step 6: Feedback Detection

"Feedback" is the undesirable high-pitched sound created by sound waves looping between the speakers and the microphones.

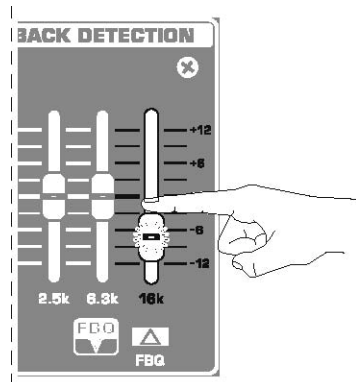
1, If feedback occurs, press the EQ and FBQ ON buttons.



2, An LED will light on the EQ slider that corresponds with the specific sound frequency



3, Lower the lit EQ slider until feedback stops.



# Specifications

## INPUTS 1-4

Type	4xXLR,electronically balanced
	4x1/4"TRS jack, electronically balanced
Impedance	Approx2.2 kohm, balanced
	Approx 1.1 kohm, unbalanced
Input	-21 dBu @PAD/OFF
Max.gain	+30dB to +10dB
Phantom power supply	+48V
Signal-to-noise ratio	-90dB, A-weighted
Channel separation	70dB

## INPUTS 5-8

Type	4x1/4"TS jack, unbalanced
	4xRCA jack, unbalanced
Impedance	Approx,20ohm, unbalanced
Input sensitivity	-15dBu
Max.gain	+20dB
Signal-to-noise ratio	-85dB,A-weighted

## STEREO AUXIN

Type	1x1/4"TS jack, unbalanced
	1x stereo minijack, unbalanced
Impedance	100Kohm, unbalanced
Input sensitivity	-8dBu
Signal-to-noise ratio	-90dB,A-weighted

## TAPE OUT

Type	2x RCA , unbalanced
Impedance	Approx 1Kohm
Max.output level	+17dB, unbalanced
Channel separation	>70 dB

## SUB OUT

Type	1x1/4 mono jack, unbalanced
Impedance	Approx 1Kohm
Max.output level	+21dBu, unbalanced

## CHANNEL EQ

BASS	$\pm 15\text{dB @}80\text{Hz}$
TREBLE	$\pm 15\text{dB @}12\text{kHz}$

#### EFFECTS

Converter	24-bit delta-sigma
Sampling frequency	40kHz
Display	2-digit, 7-segment

#### EQ

Type	7-band
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#### LOUDSPEAKER OUTPUTS

Type	2x1/4" TS jack
Load impedance	8ohm

#### OUTPUT POWER

##### PPA500BT

RMS(@8ohm)	2x60 Watts
RMS(@4ohm)	2x100 Watts
PEAK power(@8ohm)	2x125 Watts
PEAK power(@4ohm)	2x250 Watts

##### PPA2000BT

RMS(@8ohm)	2x160 Watts
RMS(@4ohm)	2x500 Watts
PEAK power(@8ohm)	2x250 Watts
PEAK power(@4ohm)	2x1000 Watts

#### SYSTEM SPECIFICATIONS

Frequency response	50Hz to 20kHz, $\pm 3\text{dB}$
Distortion	0.32%@1W

#### POWER SUPPLY

Power consumption	500W for PPA500BT 2000W for PPA2000BT
Fuse	T 10A H250V(100-120V~,50/60Hz)

	T 5A H250V(220-240V~,50/60Hz)
Power input	AC 100-120V,50/60Hz AC 220-240V,50/60Hz

#### **DIMENSIONS/WEIGHT**

Dimensions(HxWxD)	Approx.26.0x13.9x34.8''
	Approx.660x354x883mm
Weight	Approx.68.34 lbs/approx.31 kg

#### **WIRELESS SYSTEM**

Connector	USB
Frequency response	20Hz-15kHz,+0/-3dB
Weight	Approx.68.34 lbs/approx.31 kg
Range	Max 120m

#### **BLUETOOTH**

Frequency Range	2402~2480 MHz
Channel Number	79
Version	Bluetooth spec V2.1+EDR compliant
Output power	4dBm
Modulation Type	GFSK , $\pi/4$ - DQPSK, 8DPSK
Date Rate	3 Mb/s