



# Behringer Mic Preamps Compressors Processor USB Audio Interface Instruction Manual

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## Instruction Manual





## Behringer Mic Preamps Compressors Processor USB Audio Interface

### **XENYX**

#### **X1204USB**

Premium 12-Input 2/2-Bus Mixer with XENYX Mic Preamps & Compressors, British EQs, 24-Bit Multi-FX Processor and USB/Audio Interface

#### **1204USB**

Premium 12-Input 2/2-Bus Mixer with XENYX Mic Preamps & Compressors, British EQs and USB/Audio Interface

## Important Safety Instructions



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.



17.  Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.
21. This apparatus may be used in tropical and moderate climates up to 45°C.

## LEGAL DISCLAIMER

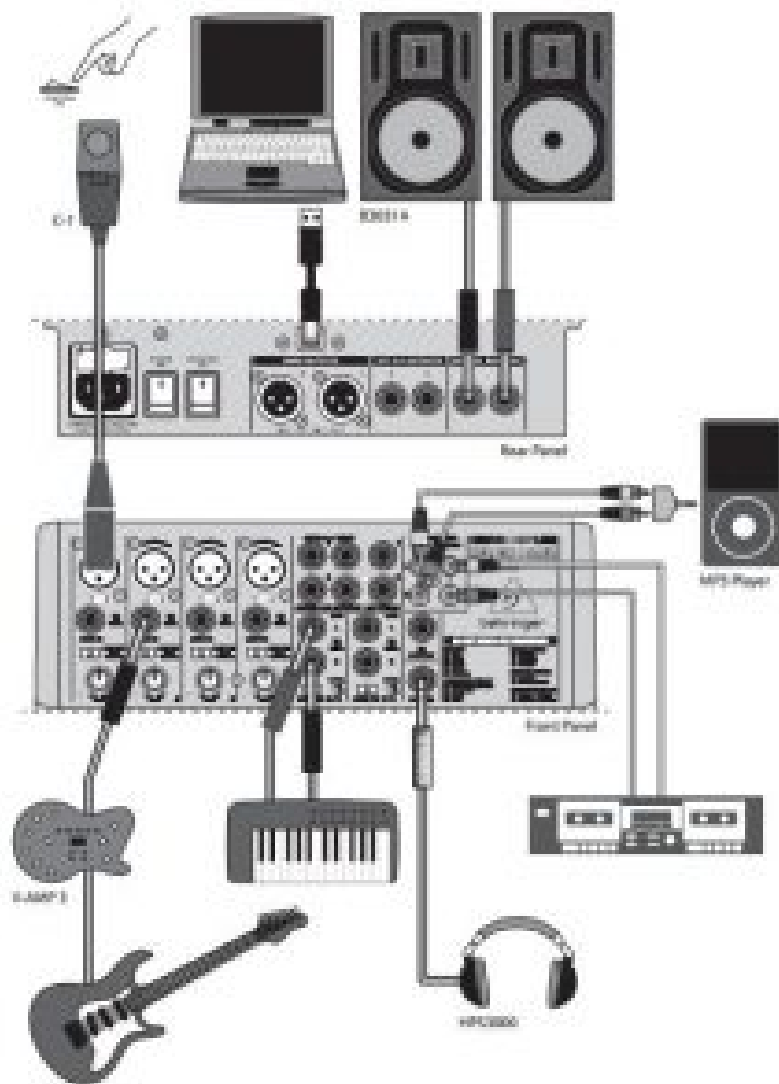
Music Tribe accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph, or statement contained herein. Technical specifications, appearances and other information are subject to change without notice. All trademarks are the property of their respective owners. Midas, Klark Teknik, Lab Gruppen, Lake, Tannoy, Turbosound, TC Electronic, TC Helicon, Behringer, Bugera, Auratone and Coolaudio are trademarks or registered trademarks of Music Tribe Global Brands Ltd. © Music Tribe Global Brands Ltd. 2020 All rights reserved.

## LIMITED WARRANTY

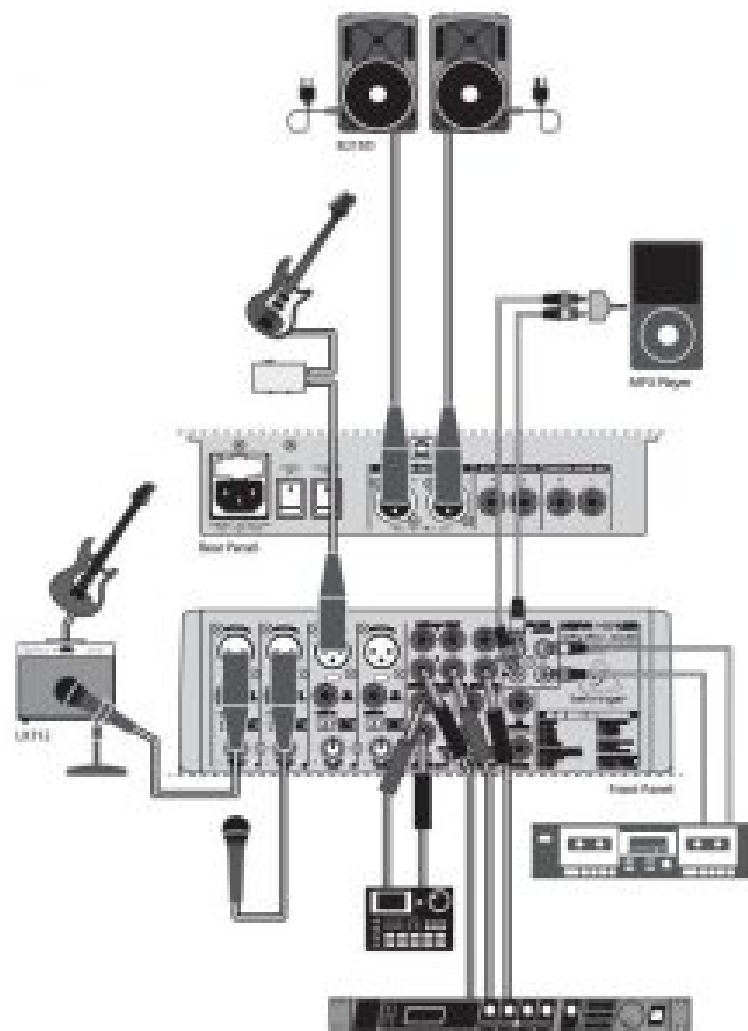
For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at [musictribe.com/warranty](https://musictribe.com/warranty).

## XENYX X1204USB/1204USB Hook-up

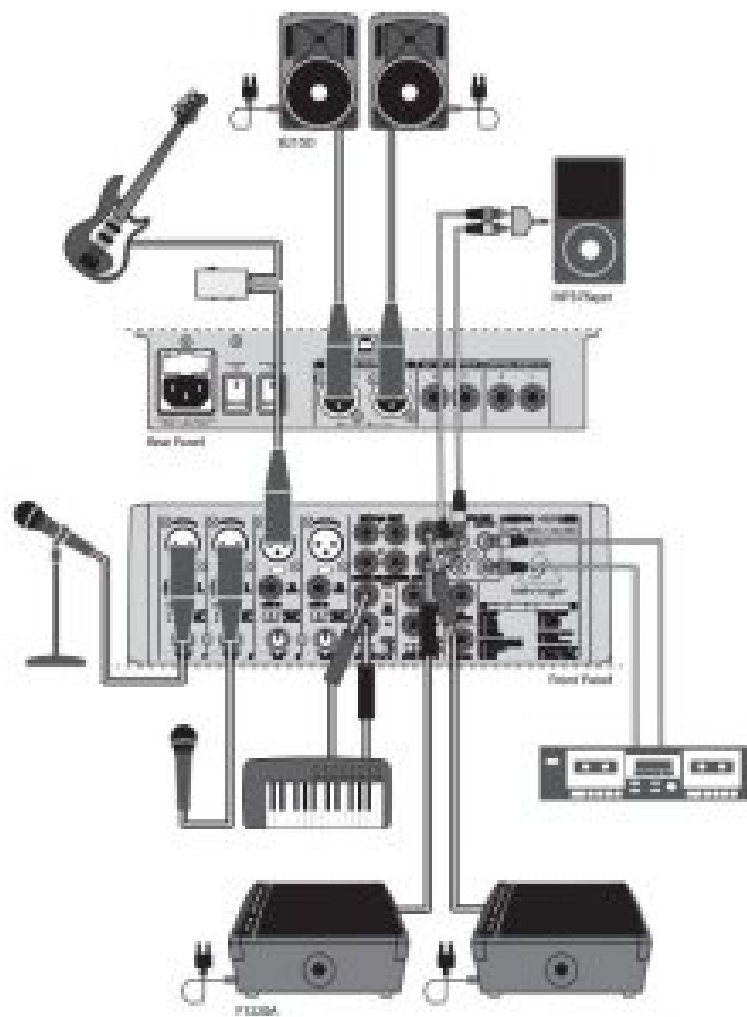
### Step 1: Hook-Up



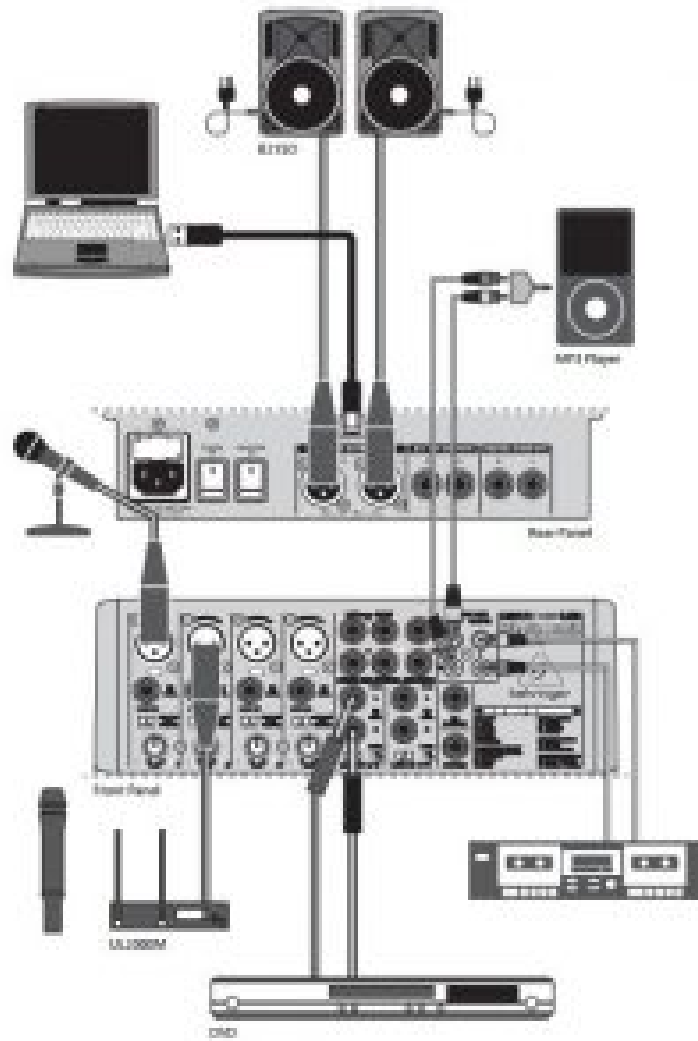
Project studio



**Band or small church with effects**



**Band or small church with stage monitors**



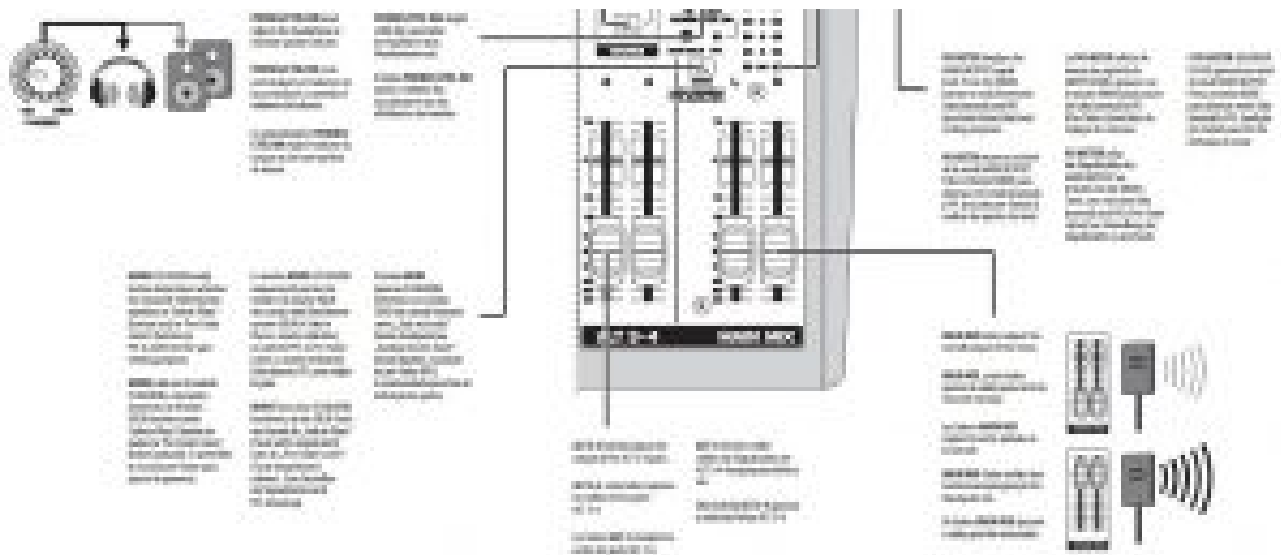
**Business/ multimedia presentation**

## **XENYX X1204USB/1204USB Controls**

### **Step 2: Controls**

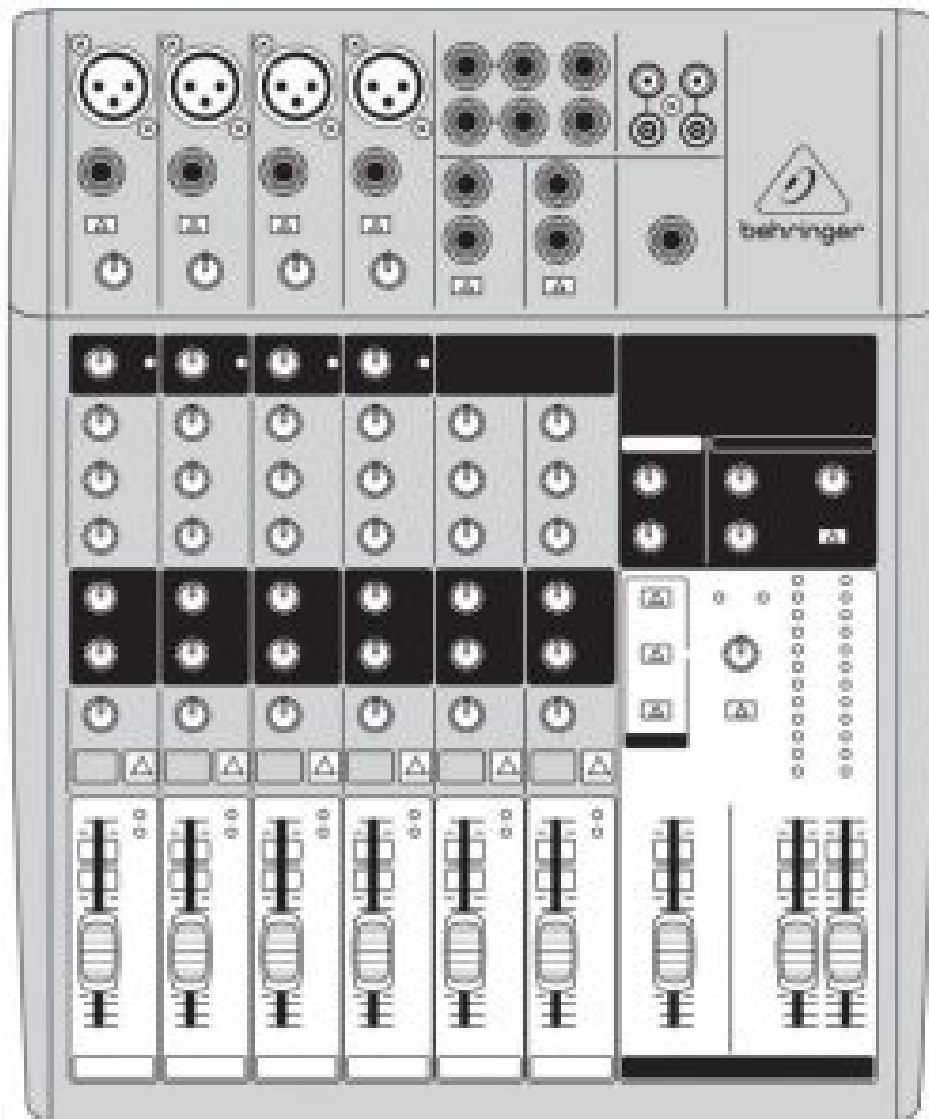






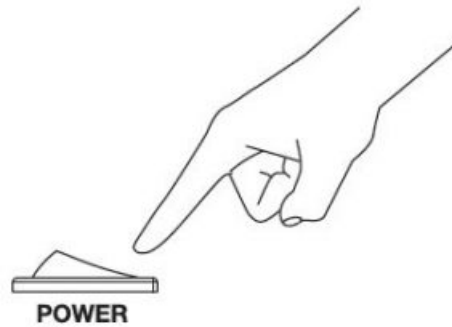
## XENYX X1204USB/1204USB Getting started

### Step 3: Getting started

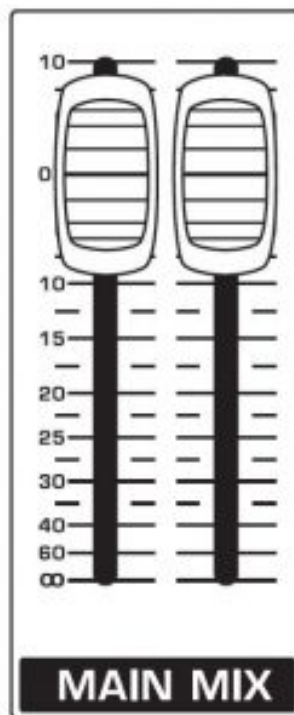


1. Make sure the power to all devices is turned off! Connect all the appropriate power, audio and USB cables to the mixer.

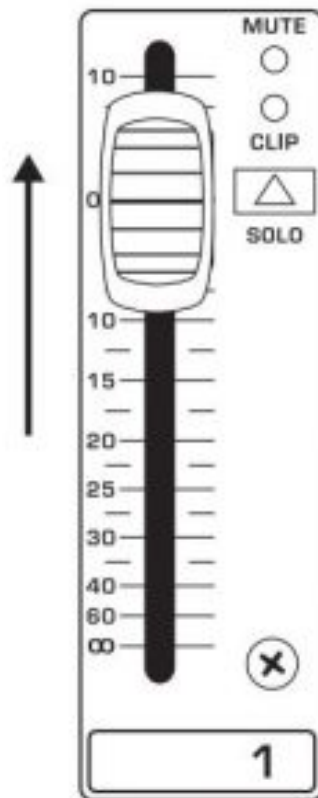
2. Turn the mixer on.



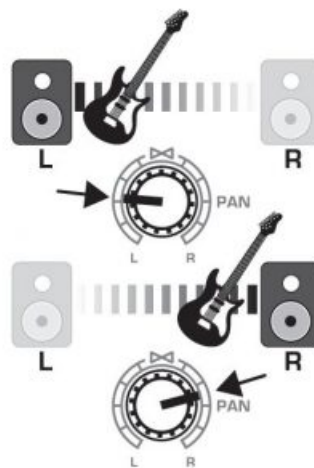
3. Set all controls as shown above (EQ and PAN/BAL centered, all others down/off).
4. Set the GAIN for each channel. See the Gain Setting section for details.
5. With the MAIN MIX faders and PHONES/CTRL RM knob all the way down, turn your power amp or powered speakers on.
6. Slowly raise the MAIN MIX faders or PHONES/CTRL RM knob to 0 or to desired level.



7. Adjust the relative level of various microphones and instruments by raising each CHANNEL FADER.



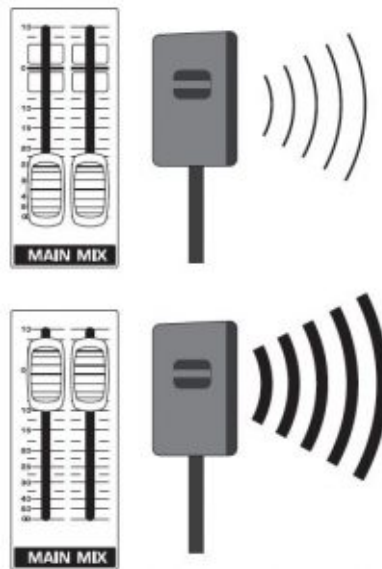
8. Adjust the left-right position of a channel in the stereo field if necessary by turning the channel's PAN or BAL knob.



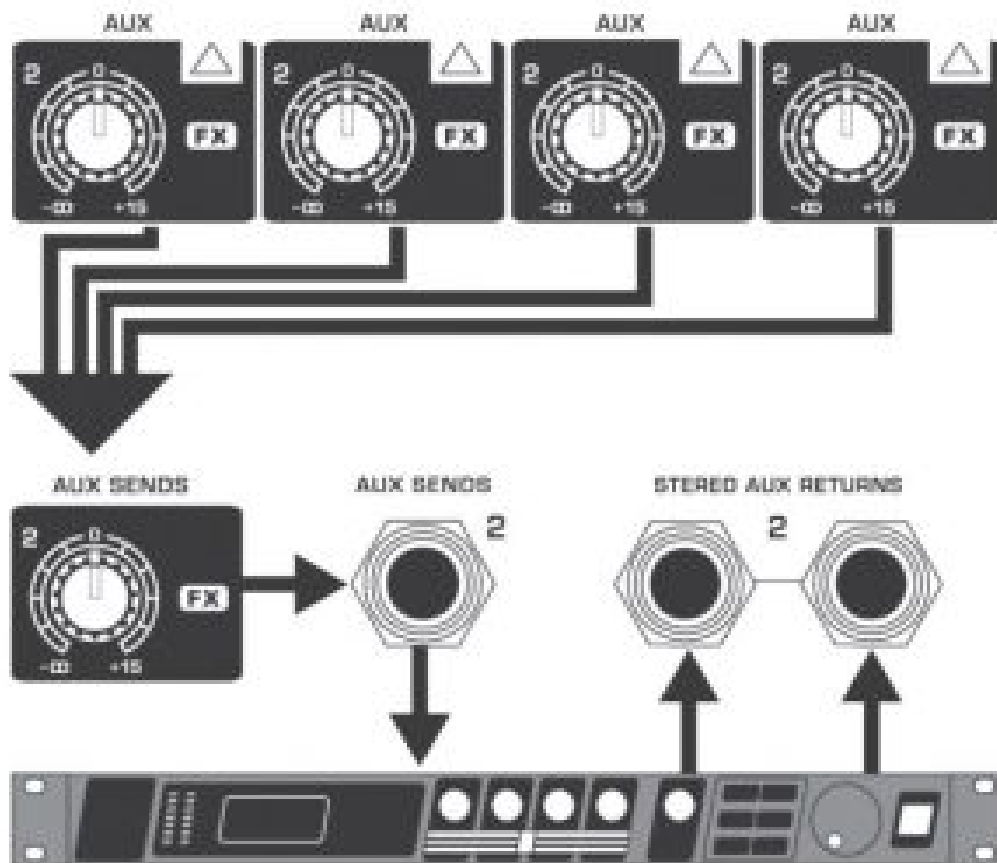
9. To add compression to an input, adjust the COMP knob until the adjacent LED lights up. This reduces the dynamics and increases the perceived loudness of the channel.

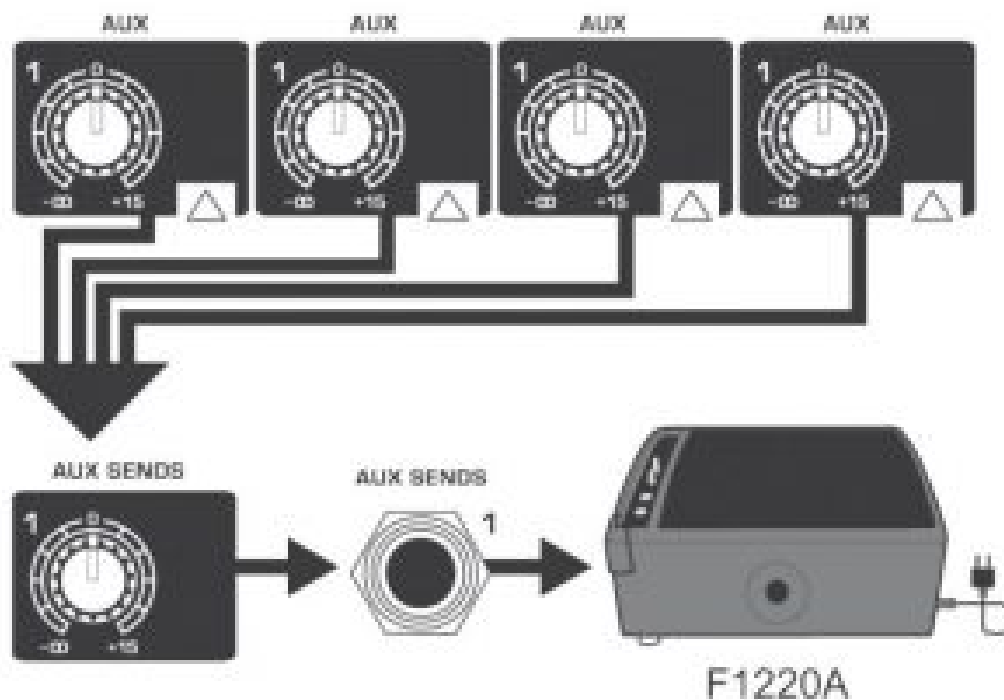


10. For live applications, adjust the overall output from the mixer to the power amp or powered speakers by raising the MAIN MIX faders. If the red CLIP LEDs on the VU METER light, lower the MAIN MIX faders.



11. Use the channel AUX knobs and master AUX SEND knobs to send the channel's signal to an effects processor or monitor speaker connected to the AUX SEND jacks. If used for effects, this signal should be returned to one of the AUX RETURN jacks.

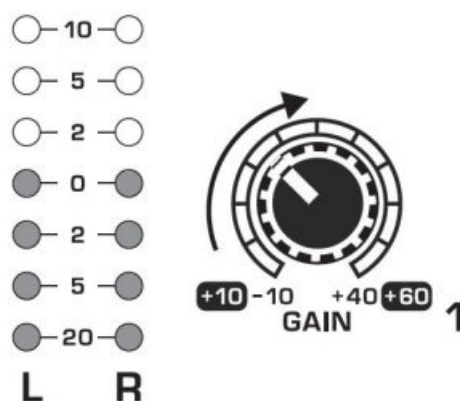




## XENYX X1204USB/1204USB Gain Setting

### Setting the channel gain for the X1204USB:

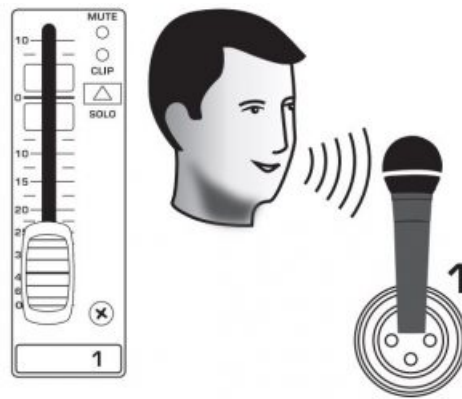
1. Press the Channel 1 SOLO button. Press the MODE button next to the VU METER to allow the METER to operate in PFL (pre-fader listen) mode.
2. Sing, speak or play at a normal level through the microphone or instrument connected to Channel 1.
3. While singing or playing, turn Channel 1's GAIN control. The VU METER will display the signal level. Set the GAIN control so that the loudest peaks reach 0 on the VU METER. Press the Channel 1 SOLO button again.



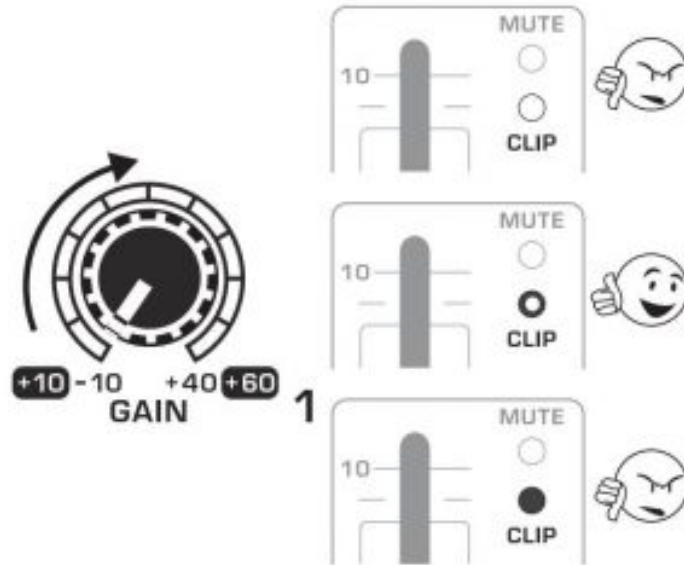
4. Repeat steps 1-3 for any other channels that will be used. For channels 5/6 and 7/8, start with the +4/-10 button out. If the signal is too low to register on the VU meters, press the button in to boost the gain.

### Setting the channel gain for the 1204USB:

1. Raise Channel 1's fader to 0. Sing, speak or play at a normal level through the microphone or instrument connected to Channel 1.

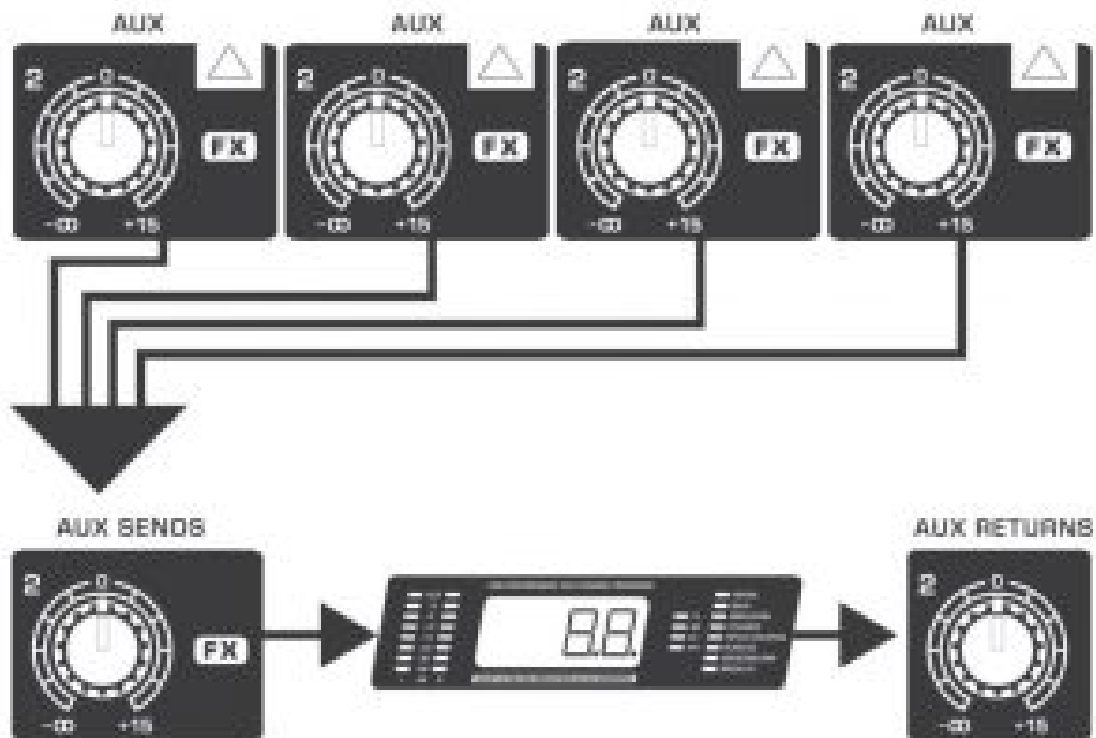


2. While singing or playing, turn Channel 1's GAIN control until the Channel 1 CLIP LED flashes occasionally, but not constantly.



3. Repeat steps 1 and 2 for devices connected to Channels 2-4. For devices connected to Channels 5/6 and 7/8, start with the +4/-10 button pushed in. If the Channel CLIP LED lights up, push the +4/-10 button again to reduce the input signal.

## X1204USB Multi-FX Processor



The X1204USB has a built-in effects processor. Follow these steps to add an effect to one or more channels.

1. Turn the AUX 2 knob up half way on each channel to which you would like to add an effect.
2. Turn the AUX SEND 2 and AUX RETURN 2 knobs up half way to start. You may adjust them later.
3. Scroll through the effects by turning the PROGRAM knob. The preset number will flash in the display. Press the PROGRAM knob to select the effect.
4. Adjust the effect's first parameter:
  - After you have selected a preset (step 3), press the PROGRAM knob to enter Edit Mode. The right LED inside the display will start blinking.
  - Turn the PROGRAM knob to adjust the parameter. After 5 seconds of inactivity, the mixer exits Edit Mode and the LED goes out.
5. Adjust the effect's second parameter:
  - If the effect's second parameter is an on/off or toggled value, press the TAP button to select between settings. 2 LEDs inside the display will start blinking.
  - If the effect's second parameter is speedbased, press the TAP button in rhythm with the desired tempo. The TAP LED will flash to the current tempo.
  - After 5 seconds of inactivity, the mixer exits Edit Mode and the LEDs go out.
6. Readjust each channel's AUX 2 knob to make sure the right amount of effect is added.

## Multi-FX Processor Preset Chart



No.	Event	PROGRAM	Min. value	Max. value	Default	TAP	Min. value	Max. value	Default	TAP LCD
<b>Scene</b>										
01	ALL	Scene time	01 (approx. 1.0 sec.)	10 (approx. 8.0 sec.)	03	Brightness	off	on	on	off/on lighting
02	ROOM	Scene time	01 (approx. 0.5 sec.)	10 (approx. 8.0 sec.)	04	Brightness	off	on	off	off/on lighting
03	FLAT	Scene time	01 (approx. 0.1 sec.)	10 (approx. 8.0 sec.)	03	Brightness	off	on	on	off/on lighting
04	GATE	Scene time	01 (approx. 0.1 sec.)	10 (approx. 8.0 sec.)	02	Brightness	off	on	off	off/on lighting
05	REVERSE	Scene time	01 (approx. 0.1 sec.)	10 (approx. 8.0 sec.)	05	Brightness	off	on	off	off/on lighting
<b>Brightness / Delay</b>										
06	EARLY REFLECTION	Room size	01 (small)	10 (extra large)	05	Brightness	off	on	off	off/on lighting
07	AMBIENCE	Area size	01 (small)	10 (extra large)	05	Brightness	off	on	on	off/on lighting
08	DELAY	No. of repetitions	01 (min. feedback)	20 (max. feedback)	04	Time Interval (BPM)	02 (72 BPM)	60 (600 BPM)	12 (120 BPM)	blinks BPM Tempo
09	SOLO	No. of repetitions	01 (min. feedback)	60 (max. feedback)	20	Time Interval (BPM)	02 (72 BPM)	60 (600 BPM)	10 (100 BPM)	blinks BPM Tempo
<b>Modulation</b>										
10	CHORUS	Intensity (Depth)	01 (1%)	99 (99%)	50	Tempo (LFO-Speed)	02 (24 BPM)	40 (400 BPM)	04 (60 BPM)	blinks mod speed
11	FLANGER	Intensity (Depth)	01 (1%)	99 (99%)	40	Tempo (LFO-Speed)	02 (24 BPM)	40 (400 BPM)	05 (70 BPM)	blinks mod speed
12	PHASER	Intensity (Depth)	01 (1%)	99 (99%)	40	Tempo (LFO-Speed)	02 (24 BPM)	40 (400 BPM)	03 (30 BPM)	blinks mod speed
<b>Detune / Pitch</b>										
13	DETUNE	Detune- Spreading	01 (1 cent)	99 (99 cent)	25	2nd voice delay	05 (short, 1 ms)	50 (long, 50 ms)	05 (1 ms)	off/on lighting
14	PITCH BEND	Sensitvity Steps	-12 (1 octave down)	12 (1 octave up)	05 (5 tone 1/2)	Octave	off (0 1 cent)	on (+25 cent)	off (0 1 cent)	off/on lighting
<b>Combinations II</b>										
15	DELAY + REV	Ratio	-9 (00% DEL, 10% REV)	9 (10% DEL, 90% REV)	0 (00% / 100%)	BLP Time (BPM)	11 (104 BPM)	60 (600 BPM)	12 (120 BPM)	blinks BPM Tempo
16	CHORUS + REV	Ratio	-9 (00% CH, 10% REV)	9 (00% CH, 90% REV)	0 (00% / 100%)	Reverb time	12 (short, 1.2 s)	20 (long, 2.0 s)	12 (short, 1.2 s)	off/on lighting

## Specifications

## Mono Inputs

### Microphone Inputs (XENYX Mic Preamp)

Type	XLR connector, electronically balanced, discrete input circuit
Mic E.I.N.1 (20 Hz - 20 kHz)	
@ 0 $\Omega$ source resistance	-134 dB 135.7 dB A-weighted
@ 50 $\Omega$ source resistance	-131 dB 133.3 dB A-weighted
@ 150 $\Omega$ source resistance	-129 dB 130.5 dB A-weighted
Frequency response (-1 dB)	<10 Hz - 150 kHz (-1 dB)
Frequency response (-3 dB)	<10 Hz - 200 kHz (-3 dB)
Gain range	+10 dB to +60 dB
Max. input level	+12 dBu @ +10 dB GAIN
Impedance	2.6 k Ohms balanced
Signal-to-noise ratio	110 dB A-weighted (0 dBu In @ +22 dB GAIN)
Distortion (THD + N)	0.005% / 0.004% A-weighted

### Line Input

Type	1/4" TRS jack, electronically balanced
Impedance	20 k Ohms balanced, 10 k Ohms unbalanced
Gain range	-10 dB to +40 dB
Max. input level	30 dBu

**Frequency Response (Mic In - Main Out)**

<10 Hz - 90 kHz	+0 dB / -1 dB
<10 Hz - 160 kHz	+0 dB / -3 dB

**Stereo Inputs**

Type	2 x ¼" TRS jack, balanced
Impedance	20 k Ohms balanced, 10 k Ohms unbalanced
Gain range	-20 dB to +20 dB
Max. input level	+22 dBu

**CD/Tape In**

Type	RCA connector
Impedance	10 k Ohms
Max. input level	+22 dBu

**Equalizer**

LOW	80 Hz / ±15 dB
MID	2.5 kHz / ±15 dB
HIGH	12 kHz / ±15 dB

**AUX Sends**

Type	¼" mono jack, unbalanced
Impedance	120 Ohms
Max. output level	+22 dBu

X1204USB		1204USB
AUX Returns		
Type	¼" TRS connector, balanced	
Impedance	20 k Ohms balanced, 10 k Ohms unbalanced	
Max. input level	+22 dBu	
Main Outputs		
Type	XLR, electronically balanced	
Impedance	240 Ohms balanced, 120 Ohms balanced	
Max. output level	+28 dBu	
Control Room Output		
Type	¼" TS connector, unbalanced	
Impedance	120 Ohms	
Max. output level	+22 dBu	
Phones Output		
Type	¼" TRS jack, unbalanced	
Max. output level	+19 dBu / 150 Ohms (+25 dBm)	
CD/Tape Out		
Type	RCA connector	
Impedance	1 k Ohms	
Max. output level	+22 dBu	
DSP (X1204USB Only)		
Converter	24-bit Delta-Sigma 64/128-times oversampling	—

Sampling Rate	40 kHz	—
Main Mix System Data (Noise)		
Main mix @ $-\infty$ , channel fader @ $-\infty$	-105 dB / -108 dB A weighted	
Main mix @ 0 dB, channel fader @ $-\infty$	-95 dB / -97 dB A weighted	
Main mix @ 0 dB, channel fader @ 0 dB	-82.5 dB / -85 dB A weighted	
Power Supply		
Mains voltage	100 – 240 V~, 50/60 Hz	
Power consumption	40 W	
Fuse (100 - 230 V~, 50/60 Hz)	T 1.6 A H 250 V	
Mains connector	Standard IEC receptacle	
USB		
Connector	Type B	
Converter	16-bit	
Sample Rate	48 kHz	
Physical/Weight		
Dimensions (H x W x D)	3.8 x 10.6 x 12.9" / 97 x 270 x 328 mm	
Weight	8.4 lbs / 3.8 kgs	

## Other important information

1. Register online. Please register your new Music Tribe equipment right after you purchase it by visiting [musictribe.com](https://musictribe.com). Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
2. Malfunction. Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under "Support" at [musictribe.com](https://musictribe.com). Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at [musictribe.com](https://musictribe.com). Alternatively, please submit an online warranty claim at [musictribe.com](https://musictribe.com) BEFORE returning the product.
3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

## FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

### Behringer

XENYX X1204USB/1204USB

**Responsible Party Name:** Music Tribe Commercial NV Inc.

**Address:** 901 Grier Drive

Las Vegas, NV 89118

USA

**Phone Number:** +1 747 237 5033

#### XENYX X1204USB/1204USB

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.

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

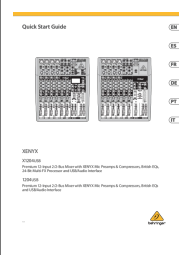
- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Important information:

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.



#### Documents / Resources

	<p><a href="#">Behringer Mic Preamps Compressors Processor USB Audio Interface</a> [pdf] Instruction Manual</p> <p>Mic Preamps Compressors Processor USB Audio Interface, XENYX, X1204USB</p>
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References

-  [Music Tribe](#)