

behringer QX2222USB XENYX Mixer with USB and Effects User Guide

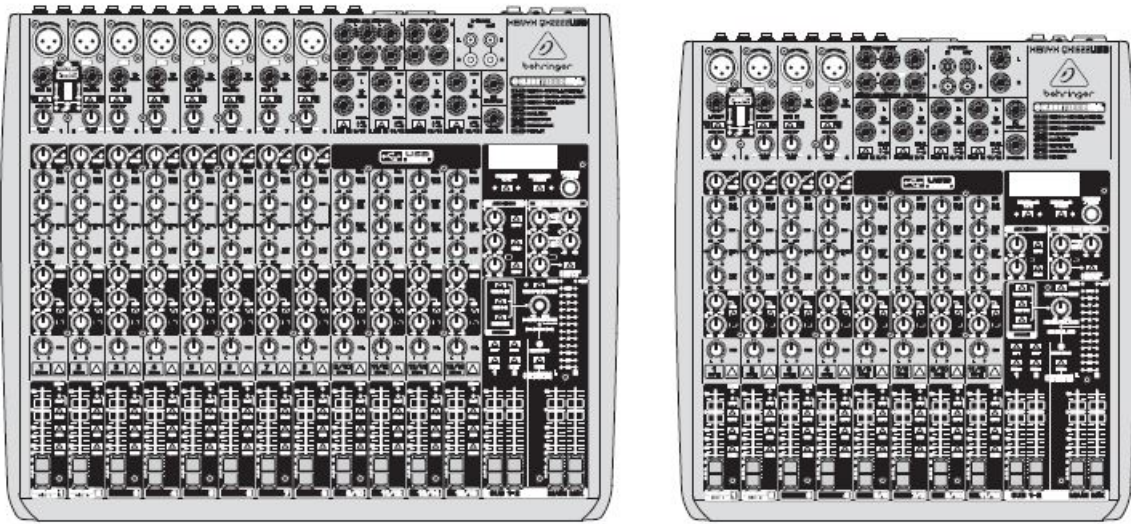
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Behringer QX2222USB XENYX Mixer with USB and Effects



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 1/4" 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
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.

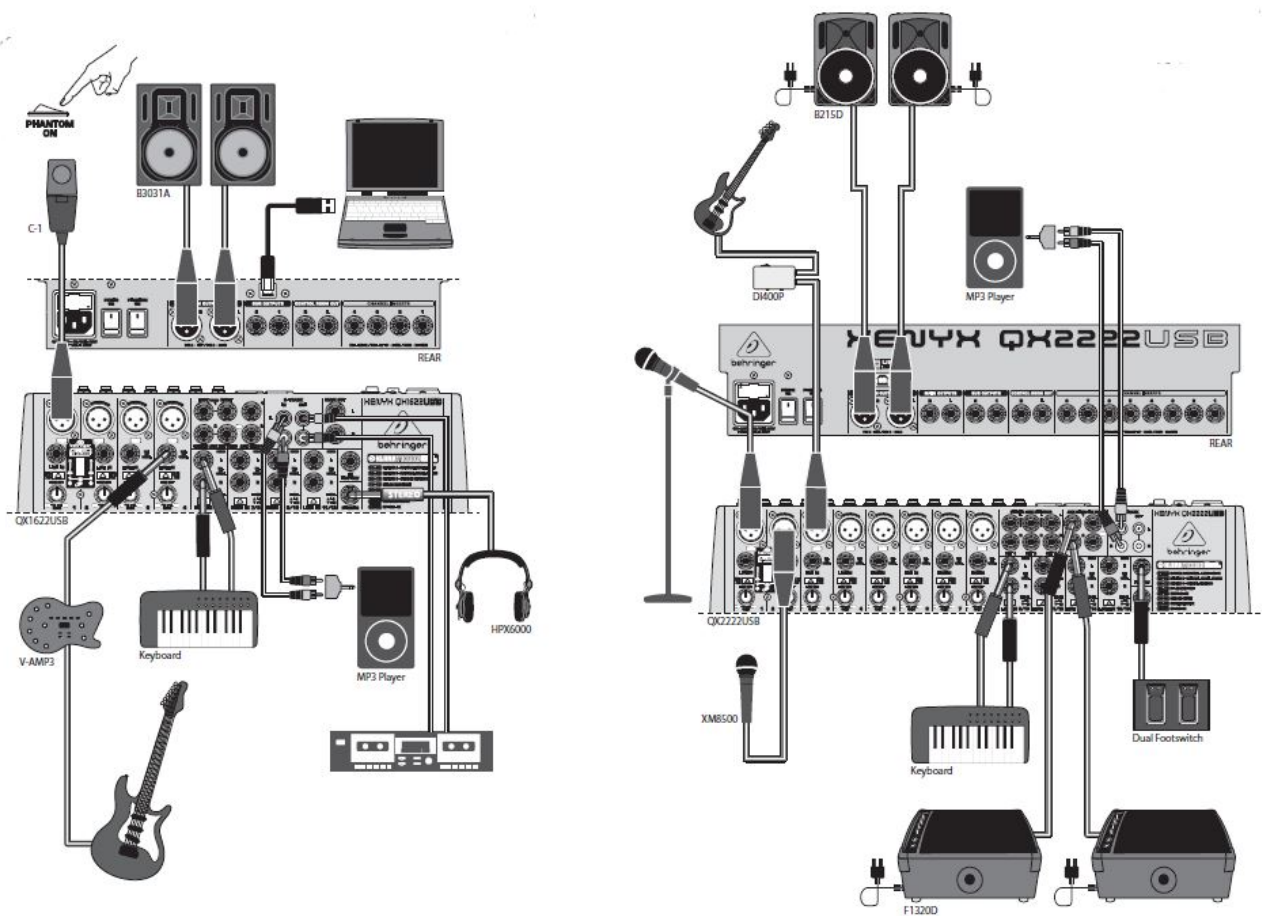
LEGAL DISCLAIMER

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, Oberheim, Auratone and Coolaudio are trademarks or registered trademarks of Music Tribe Global Brands Ltd. © Music Tribe Global Brands Ltd. 2021 All rights reserved.

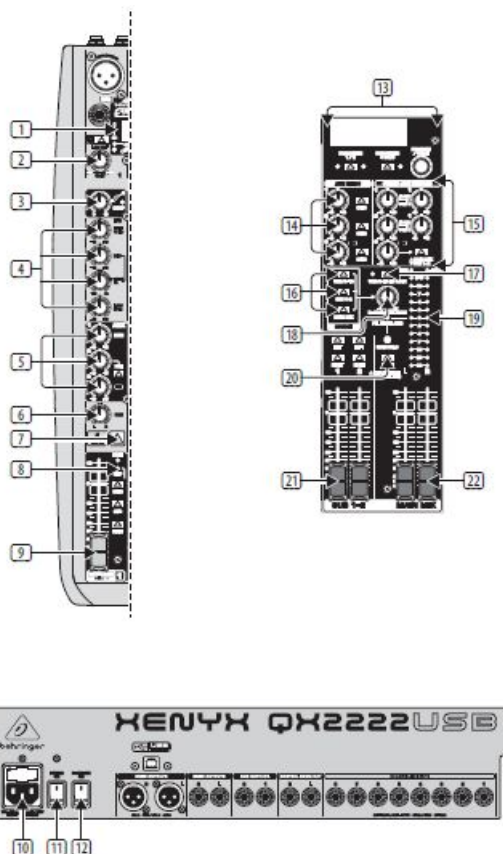
LIMITED WARRANTY

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.

Hook-Up

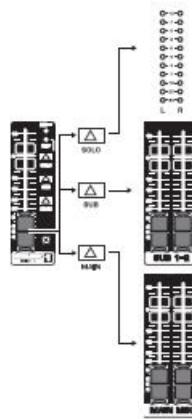


Controls



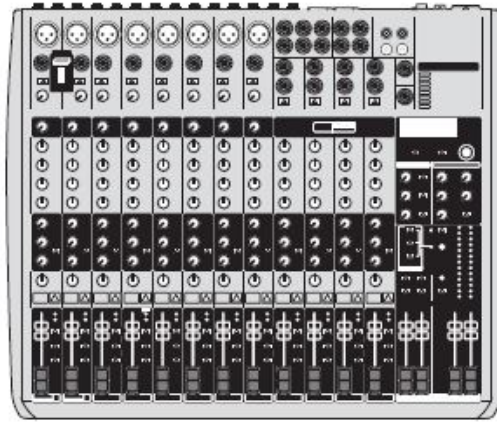
1. USB wireless input accepts a USB receiver for use with BehringerULM wireless microphones.

2. GAIN knob adjusts the sensitivity of the MIC and/or LINE inputs.
3. COMP knob adjusts the amount of compression effect on the channel.
4. EQ knobs adjust the high, mid and low frequencies of the channel. Adjust the FREQ knob to select the specific frequency adjusted by the MID knob.
5. AUX knobs adjust how much of the channel's signal routes to the AUX SEND jacks. Press the PRE button when routing the signal to a stage monitor. Use the FX knob to send the channel's signal to the internal multi-FX processor.
6. PAN/BAL knob positions the channel in the stereo field.
7. MUTE button mutes the channel.
8. CLIP LED lights when the channel (19) VU METER displays the MAIN OUTPUT signal overloads.
9. CHANNEL FADER adjusts the channel volume.

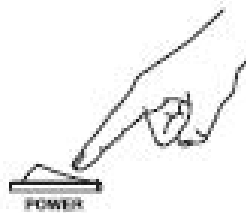


10. MULTI-FX PROCESSOR adds a selected sound effect to any channels whose FX knob is turned up. See the Multi-FX Processor section for details.
11. AUX SENDS adjust the amount of signal sent to a monitor speaker or external effects processor via the AUX SEND jacks.
12. AUX RETURNS adjust the amount of signal returning from an external effects processor that is included in the main mix. Use the TO AUX SEND knob(s) to include the effects signal in your monitor mix as well.
13. SOURCE buttons route the USB/2-TR, SUB, and MAIN MIX to the PHONES and CONTROL ROOM jacks.
14. USB/2-TR TO MAIN button routes the USB and 2-TRACK signal to the MAIN MIX.
15. PHONES/CTRL ROOM knob adjusts the headphone or studio monitor volume.
16. MODE button determines whether the channel's SOLO button operates as 'Solo in Place' (button out) or 'Pre-Fader Listen' (button in). PFL is preferred for gain setting purposes.
17. SUB faders adjust the output of the SUB OUTPUT jacks. Use the LEFT/RIGHT buttons to assign the SUB signal to the left and/or right MAIN MIX.
18. MAIN MIX faders adjust the overall output of the mixer.
19. AC IN accepts the included power cable for connection to a mains outlet.
20. POWER ON switch turns the mixer on and off.
21. PHANTOM ON switch sends 48 V to the XLR inputs for use with condenser microphones.

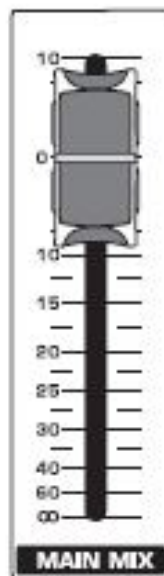
Getting started



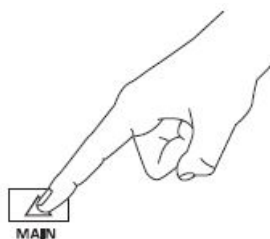
Make sure the power to all devices is turned off



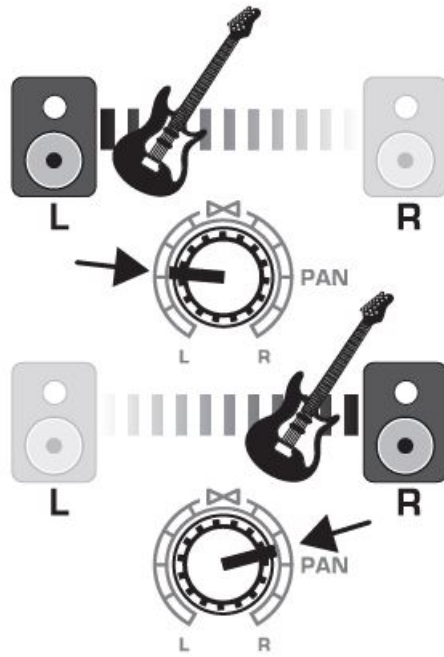
Set the GAIN for each channel. See the Gain Setting section for details.



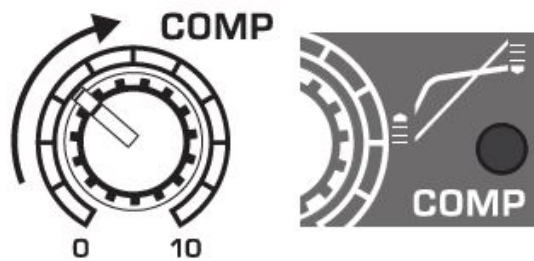
Press the MAIN button on each channel to assign the channel to the MAIN MIX.



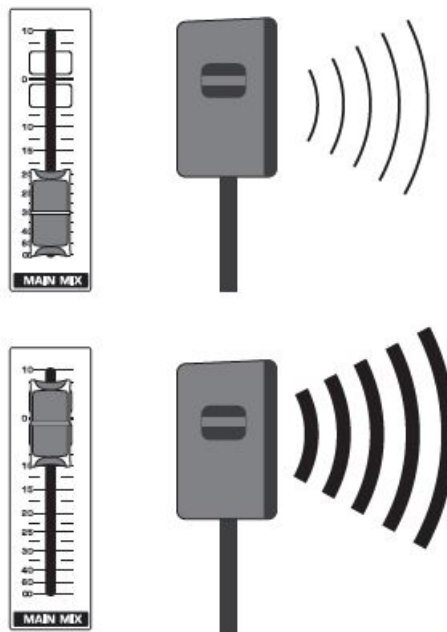
Adjust the left-right position of a channel in the stereo field if necessary by turning the channel's PAN or BAL knob.



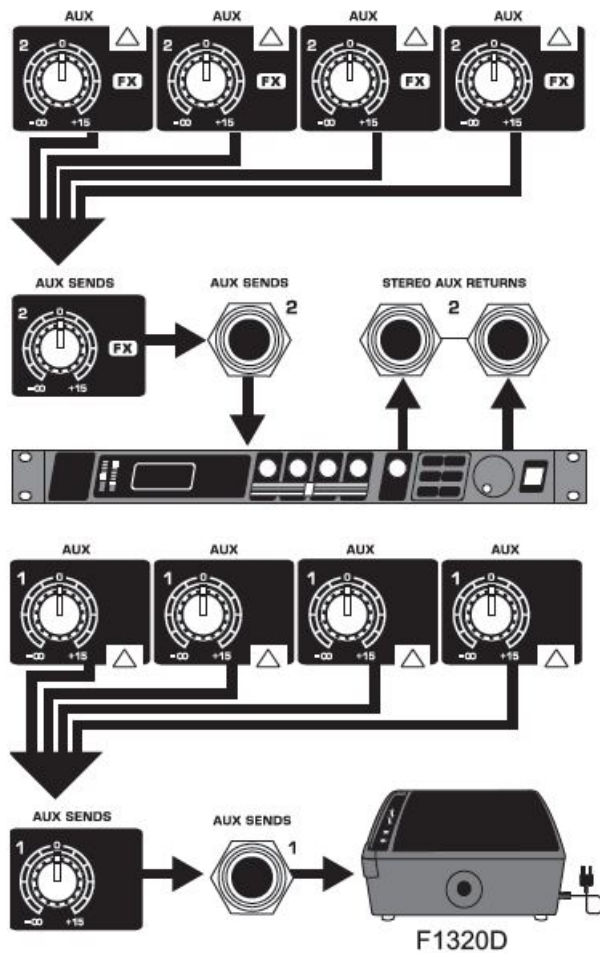
Adjust the COMP knob to add compression to an input if necessary.



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.

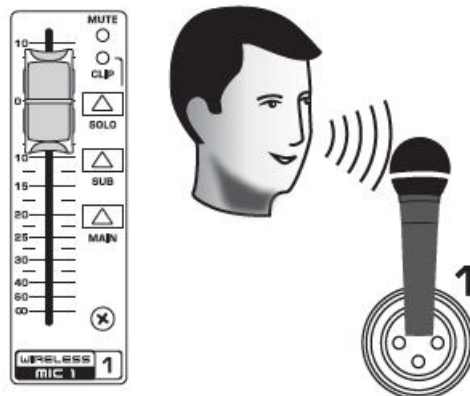


Use the channel AUX knobs and master AUX SEND knobs to send the channel signals to an effects processor or stage monitor connected to the AUX SEND jacks. If used for effects, route the signal back from the processor to the AUX RETURN jacks.

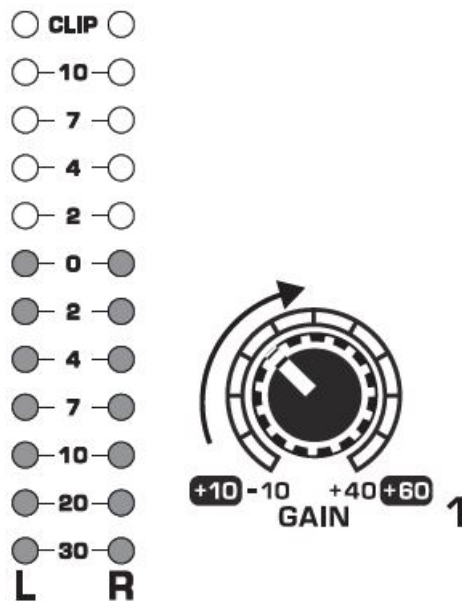


Setting the channel gain for the QX2222USB/QX1622USB:

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.

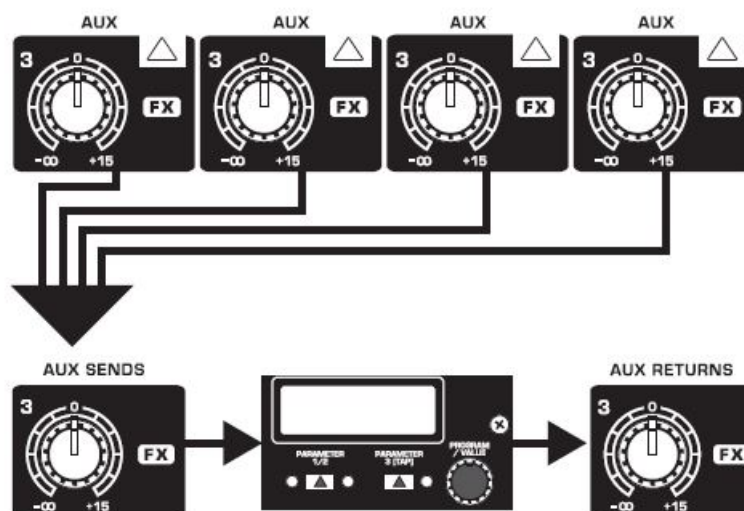


While singing or playing, turn Channel 1's GAIN control. The VU METER will display the signal level. Set the GAIN control so that the loudest peaks reach 0 on the VU METER. Press the Channel 1 SOLO button again.



Repeat steps 1-3 for any other channels that will be used.

Your mixer has a built-in processor. Follow these steps to add an effect to one or more channels.



1. Turn the FX knob up half way on each channel to which you would like to add an effect.
2. Turn the FX AUX SEND and FX AUX RETURN knobs to 0. You may adjust them later.
3. Scroll through the effects by turning the PROGRAM knob. The preset name will flash in the display. Press the PROGRAM knob to select the effect.
4. Adjust parameter 1 and 2:
 1. After you have selected a preset (step 3), press the PARAM 1/2 button to enter Edit Mode. The LED on the left side of the PARAM 1/2 button will light to indicate parameter 1 is active.
 2. Turn the PROGRAM knob to adjust the parameter.
 3. After 4 seconds of inactivity, the mixer exits Edit Mode. You can also press the PROGRAM knob to manually exit Edit Mode.
 4. Repeat the steps, using PARAM 1/2 button to select parameter 2 for editing.
5. Readjust each channel's FX knob to make sure the right amount of effect is added. If the OL (overload) meter segment lights in the display, turn the FX AUX SEND knob down.
6. The FX FOOTSW(itch) jack accepts a one-button footswitch for FX bypass, and dual footswitch for bypass and

PARAM 3/TAP adjustment (A/B select or tap tempo).

Multi-FX Processor Preset Chart

REVERB A – NATURAL LARGE HALLS

01	CHURCH	Decay Time	1.00 to 10.00	Room Shape	1 to 50	Damping	DARK (off) / BRIGHT (on)
02	CONCERT HALL 1	Decay Time	0.50 to 5.00	Chorus	1 to 30	Damping	DARK (off) / BRIGHT (on)
03	CONCERT HALL 2	Decay Time	1.00 to 5.00	Early Refl. Level	-12 to +12	Damping	DARK (off) / BRIGHT (on)
04	THEATER	Decay Time	0.40 to 3.00	Depth	0 to 9	Damping	DARK (off) / BRIGHT (on)

REVERB B – NATURAL SMALL ROOMS

05	ROOM 1	Decay Time	0.50 to 5.00	Density	0 to 100	Damping	DARK (off) / BRIGHT (on)
06	ROOM 2	Decay Time	0.30 to 2.50	Pre Delay	0 to 50	Damping	DARK (off) / BRIGHT (on)
07	ROOM 3	Decay Time	0.20 to 10.00	Pre Delay	0 to 200	Position	FRONT (off) / REAR (on)
08	CHAMBER	Decay Time	0.10 to 3.00	Room Size	1 to 30	Damping	DARK (off) / BRIGHT (on)

REVERB C – SPECIAL REVERBS

09	VINTAGE DIGITAL REVERB	Decay Time	0.40 to 4.50	High Freq. Damping	X 0.25, 0.33 , 0.50, Max	Out Select	REAR (off) / FRONT (on)
10	PLATE REVERB 1	Decay Time	0.50 to 3.00	Pre Delay	0 to 40	Damping	DARK (off) / BRIGHT (on)
11	PLATE REVERB 2	Decay Time	0.30 to 4.00	Pre Delay	0 to 40	Damping	DARK (off) / BRIGHT (on)
12	SPRING REVERB	Decay Time	1.00 to 4.00	Pre Delay	0 to 150	Type	VINTAGE (off) / MODERN (on)
13	GATED REVERB 1	Decay Time	1 to 12	Pre Delay	0 to 400	Type	ALIVE (off) / GATED (on)
14	GATED REVERB 2	Decay Time	1 to 20	Pre Delay	0 to 30	Damping	DARK (off) / BRIGHT (on)
15	REVERSED REVERB	Decay Time	1 to 20	Pre Delay	0 to 30	Damping	DARK (off) / BRIGHT (on)

DELAY / AMBIENCE

16	DELAY	Feedback	0 to 100	Mode	Mono, Ping pong, Spread	Delay Tempo	72 to 500 (blink @ tempo)
17	ECHO	Feedback	0 to 100	Damping	1 to 50	Echo Tempo	72 to 500 (blink @ tempo)
18	AMBIENCE	Room Size	1 to 30	Tail Gain	0 to 100	Damping	DARK (off) / BRIGHT (on)
19	EARLY REFLECTIONS	Room Size	1 to 30	Diffusion	1 to 20	Damping	DARK (off) / BRIGHT (on)

20 – 23 MODULATION

20	CHORUS	Depth	-20 to +20	LFO Speed	0.05 to 5.00	LFO Waveform	TRIANGLE (off), SINE (on)
21	FLANGER	Depth	-20 to +20	Resonance	-100 to +100	Mod Tempo	5 to 400 (blink @ tempo)
22	PHASER	Depth	-20 to +20	Resonance	1 to 50	Mod Tempo	5 to 400 (blink @ tempo)
23	AUTO-PAN / TREMOLO	Depth	-100 to +100	LFO Waveform	Triangle, Ramp, Square	Mod Tempo	5 to 400 (blink @ tempo)

24 – 26 DETUNE / PITCH

24	DETUNE	Detune	-99 to +99	PreDelay	0 to 300	Damping	DARK (off) / BRIGHT (on)
25	PITCH SHIFTER 1	Note Shift	-12 to +12	PreDelay	0 to 300	Detune	0 (off) / 20 (on)
26	PITCH SHIFTER 2 (DUAL)	Note Shift A	-12 to +12	Note Shift B	-12 to +12	Stereo Spread	NARROW (off) / WIDE (on)

27 – 29 COMBI-FX

27	DELAY + CHORUS	Delay<>Chorus Balance	-50 to +50	Chorus Depth	-20 to +20	Delay Tempo	75 to 500 (blink @ tempo)
28	DELAY + REVERB	Delay<>Reverb Balance	-50 to +50	Reverb Decay	1.00 to 5.00	Delay Tempo	114 to 500 (blink @ tempo)
29	CHORUS + REVERB	Chorus<>Reverb Balance	-50 to +50	Reverb Decay	1.00 to 5.00	Chorus Depth	SOFT (off) / DEEP (on)

30 – 32 SPECIAL FX

30	LFO LOW-PASS FILTER	Depth	-20 to +20	Resonance	1 to 30	LFO Tempo	5 to 400 (blink @ tempo)
31	TALKBOX	Vowel 1	A, E, I, O, U	Vowel 2	A, E, I, O, U	LFO Tempo	5 to 400 (blink @ tempo)
32	CLIPPER DISTORTION	Distortion	1 to 100	Low Cut Filter	50.0 to 500.0	Damping	DARK (off) / BRIGHT (on)

Specifications

@ 0 Ω source resistance	-134 dB / -136 dB A-weighted	
@ 50 Ω source resistance	-131 dB / -133 dB A-weighted	
@ 150 Ω source resistance	-129 dB / -131 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 k Ω balanced	
Signal-to-noise ratio	106 dB / 108 dB A-weighted (0 dBu In @ +22 dB gain)	107 dB / 110 dB A-weighted (0 dBu In @ +22 dB gain)
Distortion (THD+N)	0.005% / 0.004% A-weighted	
Phantom power	Switchable, +48 V	

Line Input

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

Stereo Inputs

Type	4 x 1/4" TRS connector, balanced
Impedance	20 k Ω balanced, 10 k Ω unbalanced
Gain range	-20 dB to +20 dB
Max. input level	+22 dBu

Equalizer 4-Band Fixed

Low	80 Hz / ± 15 dB
Low mid	500 Hz / ± 15 dB
High mid	3 kHz / ± 15 dB
High	12 kHz / ± 15 dB

Channel Inserts

Type	1/4" TRS connector, unbalanced
Max. input level	+22 dBu

AUX Sends

Type	3 x 1/4" TRS connector, balanced	2 x 1/4" TRS connector, balanced
Impedance	120 Ω	
Max. output level	+22 dBu	

AUX Returns

Type	3 x 1/4" TRS connector, balanced	2 x 1/4" TRS connector, balanced
Impedance	20 k Ω balanced, 10 k Ω unbalanced	
Max. input level	+22 dBu	

Main Outputs

Type	XLR, balanced
Impedance	240 Ω balanced, 120 Ω unbalanced
Max. output level	+28 dBu

Phones Output

Type	1/4" TRS connector, unbalanced
Impedance	25 Ω
Max. output level	+21 dBu / 150 Ω (+25 dBm)

DSP

Type	KLARK TEKNIK
Converter	24-bit Sigma-Delta
	64/128-times oversampling
Sampling rate	40 kHz

Main Mix System Data (Noise)

Main mix @ $-\infty$, channel fader @ $-\infty$	-100 dB / -103 dB A-weighted	-100 dB / -102 dB A-weighted
Main mix @ 0 dB, channel fader @ $-\infty$	-85 dB / -88 dB A-weighted	-88 dB / -91 dB A-weighted
Main mix @ 0 dB, channel fader @ 0 dB	-78 dB / -80 dB A-weighted	-82 dB / -85 dB A-weighted

Power Supply

Mains voltage	100 – 240 V~, 50/60 Hz
Power consumption	50 W
Fuse (100 – 240 V~, 50/60 Hz)	T 1.6 A H 250 V
Mains connector	Standard IEC receptacle

USB

Connector	Type B
Audio	Stereo in/out
Converter	16-bit
Sample rate	48 kHz

Physical/Weight

Dimensions (W x D x H)	16.9 x 14.6 x 3.5"	12.8 x 13.7 x 3.5"
	430 x 370 x 90 mm	325 x 348 x 90 mm
Weight	10.6 lbs / 4.8 kg	7.7 lbs / 3.5 kg

Important information

Register online. Please register your new Music Tribe equipment right after you purchase it by visiting 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.

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. 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. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.

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

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.

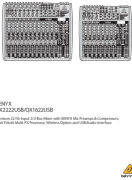
This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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>behringer QX2222USB XENYX Mixer with USB and Effects [pdf] User Guide QX1622USB, QX2222USB, XENYX Mixer with USB and Effects, QX2222USB XENYX Mixer with USB and Effects</p>
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References

-  [Music Tribe](#)
-  [Music Tribe](#)