behringer XENYX CONTROL2USB Studio Control with USB Audio Interface User Guide

Contents

behringer XENYX CONTROL2USB Studio Control with USB Audio Interface

Specifications

- Product Name: XENYX CONTROL2USB
- Type: Studio Control and Communication Center
- Features: VCA Control, USB Audio Interface
- Version: 3.0

Product Usage Instructions

Safety Instructions
It is crucial to follow the safety instructions provided with the XENYX CONTROL2USB to ensure safe operation of the device. Some key safety instructions include:

- Avoid exposing the device to rain or moisture.
- Do not remove the top cover as there are no user-serviceable parts inside.
- Keep the device away from heat sources and water.

Setup
Before using the XENYX CONTROL2USB, ensure that you have all the necessary components and cables. Follow these steps for setup:

1. Place the device on a stable surface away from heat sources and liquids.
2. Connect the USB cable to your computer or recording device.
3. Connect your audio sources to the appropriate inputs on the device.

FAQ:
Q: What should I do if the device stops working suddenly?
A: If the XENYX CONTROL2USB stops working abruptly, unplug it from power and refer to qualified service personnel for assistance.

XENYX CONTROL2USB

High-End Studio Control and Communication Center with
VCA Control and USB Audio Interface

Important Safety Instruction

- 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

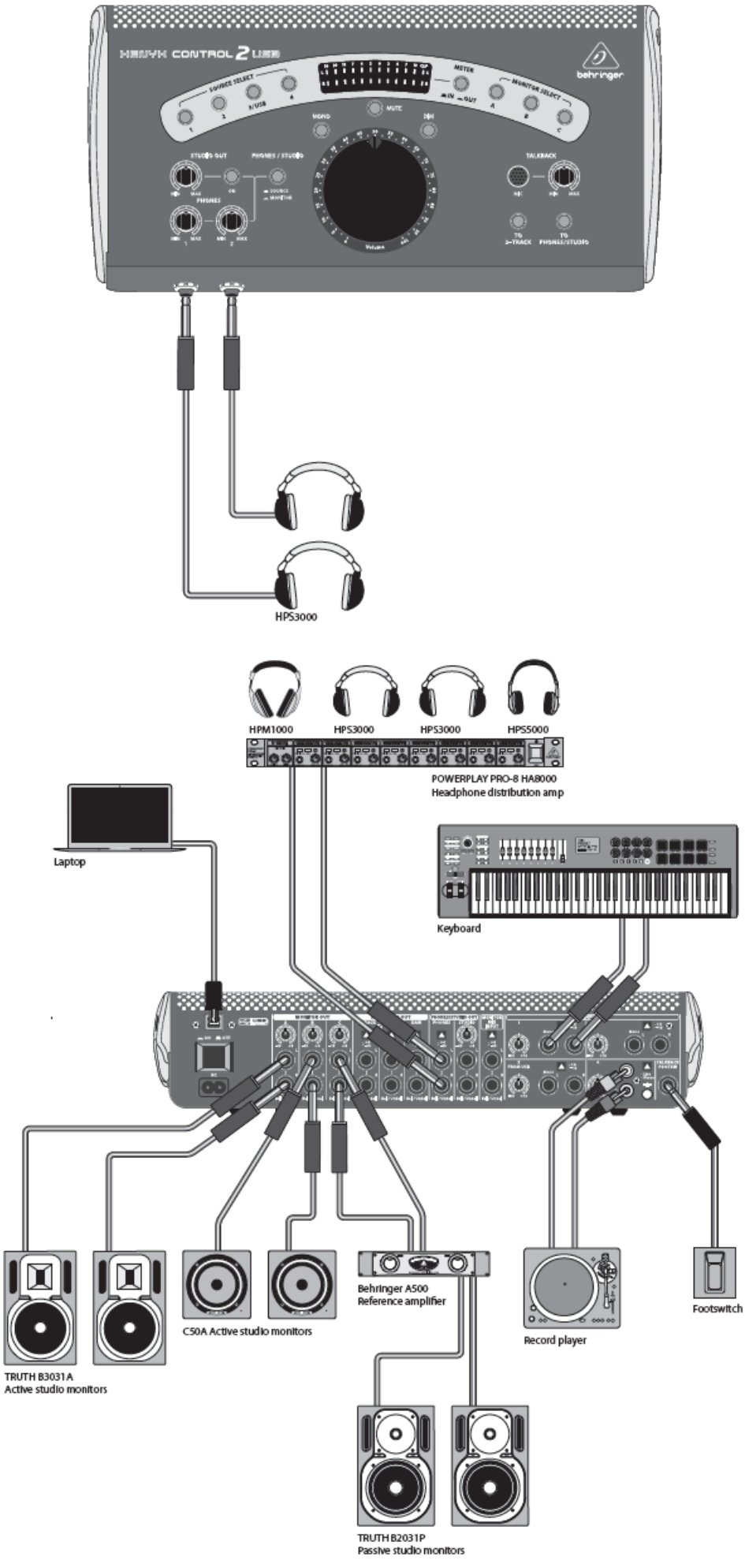
point where they exit from the apparatus.

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 16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
16. 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.

17. Do not install in a confined space, such as a book case or similar unit.
18. Do not place naked flame sources, such as lighted candles, on the apparatus.
19. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed of at a battery collection point.
20. This apparatus may be used in tropical and moderate climates up to 45°C.

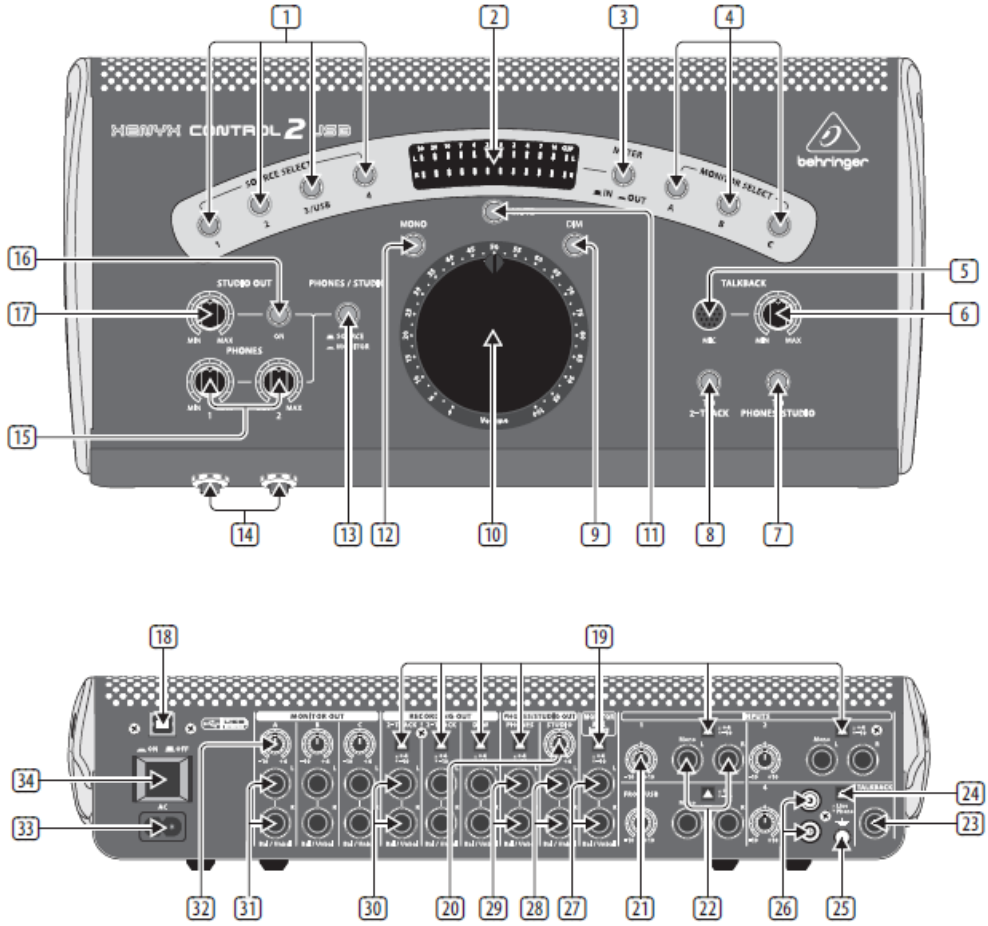
XENYX CONTROL2USB Hook-up

1. Step 1: Hook-Up



2. Step 2: Controls

1.



SOURCE SELECT buttons determine which input source will be routed to outputs on the back panel.

2. LEVEL METERS shows the input or output signal strength of the active connected stereo source.
3. METER switch determines whether the input or output signal will be shown on the LEVEL METERS.
4. MONITOR SELECT activates or deactivates the speakers connected to A, B or C outputs.
5. TALKBACK microphone allows a microphone signal to be sent to the PHONES/STUDIO OUT outputs or the RECORDING OUT outputs.
6. TALKBACK level knob adjusts the gain of the TALKBACK MIC.
7. TO PHONES/STUDIO button sends the TALKBACK MIC signal to the PHONES and STUDIO outputs.
8. TO 2-TRACK button sends the TALKBACK MIC signal to the 2-TRACK A, B and DAW outputs.
9. DIM switch reduces the signal going to MONITOR A, B and C by 20 dB.
10. VOLUME knob adjusts the volume of signals going to the Monitor A, B and C outputs. It does not affect the volume of the signal going to the RECORDING OUT, PHONES, or STUDIO OUT jacks.
11. MUTE switch silences the signal going to the MONITOR A, B, and C outputs.
12. MONO switch turns the stereo input signal into a monophonic signal out of the MONITOR A, B and C outputs.
13. PHONES/STUDIO switch changes the signal being fed to the PHONES and STUDIO outputs between the input sources and the MONITOR MIX INPUT.
14. HEADPHONE jacks.
15. PHONES volume adjustment knobs.
16. ON button turns the signal to the STUDIO OUT jacks.
17. STUDIO OUT volume knob adjusts the volume of the speakers connected to the STUDIO OUT jacks.
18. USB jack for connecting your CONTROL2USB to the computer, working as a 2-in/2-out soundcard.

19. 2-TRACK A +4/-10 level switch changes between the balanced +4 dB professional equipment standard and the unbalanced – 10 dB consumer equipment standard (same for 2-TRACK B, DAW outputs, PHONES, MONITOR MIX inputs and INPUTS 1, 2 and 3).
20. STUDIO OUT trim knob adjusts the signal sent via the STUDIO OUT jacks.
21. TRIM control knob adjusts the input sensitivity of the incoming signal by +/-10 dB (same for INPUTS 2, 3 and 4).
22. INPUT 1 jacks for connecting a balanced or unbalanced stereo signal. If a mono signal is plugged into the L input, it is automatically routed to the left and right inputs
    (same for INPUTS 2 and 3).
23. TALKBACK FOOTSW input jack for connecting remote TALKBACK mic switch. When the switch is activated, the talkback circuit opens for the PHONES/STUDIO OUT outputs, both PHONES outputs and the three RECORDING OUT outputs (2-TRACK A, B and DAW).
24. LINE/PHONO switch changes the input source from (unbalanced) line to phono level.
25. Grounding Screw (GND) for connecting the grounding wire from the attached phonograph.
26. INPUT 4 stereo RCA inputs for connecting a phonograph or other stereo line signal.
27. MONITOR MIX INPUT allows the connection of an alternate stereo mix from the DAW.
28. STUDIO OUT jacks for connecting speakers in a recording space for monitoring and talkback.
29. PHONES output jacks for connecting a headphone distribution amplifier.
30. 2-TRACK A output jacks for sending a balanced or unbalanced stereo signal to an external recorder (same for 2-TRACK B and DAW outputs).
31. MONITOR OUT A output jacks for connecting powered speakers or an amplifier for passive speakers (same for B and C).
32. MONITOR A trim knob adjusts the MONITOR A output signal between the professional +4 dB standard to the -10 dB consumer standard.
    It allows the balancing of signal between the three monitor outputs (same for B and C).
33. Connect the included IEC connector to this AC socket and a suitable power source.
34. POWER switch turns the unit on and off. When in the off (standby) position, the circuits are still live. To remove power altogether, remove the power cord from the AC mains supply.

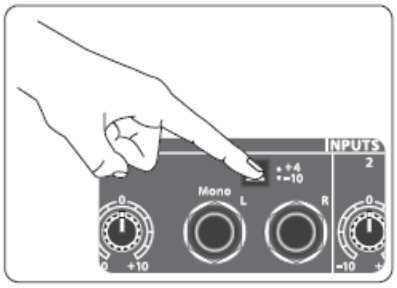
3. Step 3: Getting started
    1. Push the Power button on the rear panel to the OFF position (pushed out).
    2. Turn the volume and all level knobs (topÂ and rear panel) to the far left position.
    3. Push all SOURCE SELECT, MONITORÂ SELECT, and routing switches to the out position.
    4. Connect the included power cable to the input on the back panel.
    5. Connect the audio outputs from your DAW (Digital Audio Workstation) audioÂ interface to the MONITOR
    6. Connect active monitors or passive monitors via powered amp to the MONITOR OUT jacks A, B, and C.
    7. If you have a studio space separate from your work station, you can connect a pair of powered speakers or passive speakers via separate amplifier to the STUDIO OUT jacks.
    8. Connect a headphone distribution amplifier to the rear PHONES output jacks.
    9. Connect the 2-TRACK A and B outputs to external recording devices to record the signal coming out of your INPUTS 1-4.
    10. Connect the DAW output jacks to the inputs on your recording interface to record the signal from your INPUTS 1-4.
    11. INPUTS 1, 2 and 4 can be recorded individually or mixed together (depending on the position of the

SOURCE SELECT switches) via the internal USB audio interface as a stereo signal to your computer. The signal from INPUT 3 cannot be recorded via USB, but if you press SOURCE SELECT 3, you can listen to the stereo playback signal coming back from your computer. By this logic it is possible to "rec-while-play" to your computer without the danger of producing a feedback loop. If you press SOURCE SELECT 3 along with 1, 2 or 4 while audio signals are coming in via the rear line inputs, these signals will be mixed together. The USB audio interface is class-compliant, and can be used with ASIO drivers for extra low latency (such as ASIO4ALL – link available on **behringer.com**

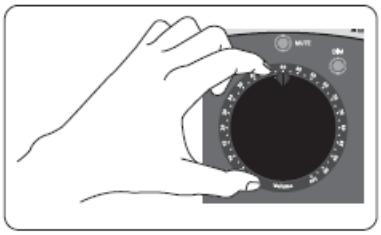
Feedback Loop
A feedback loop will cause a doubling of your recorded DAW signal. If you hear this doubling effect, go to your DAW and switch off the recorded signal's monitoring output.

Setting the levels:

1. With all external sources turned down or off, push the POWER button to the ON position.
2. Turn on external powered speakers, passive speaker amplifiers, and headphone amplifiers.
3. Select which monitor source you wish to hear by pushing in the A, B or C button on the top panel.
4. Play a song from your DAW to test and adjust monitor levels. Adjust the monitor out trim level knob on the back panel if necessary.
5. Adjust the gain on the input channel you selected using its trim knob on the back panel. Gauge the amount of gain necessary by observing the level meter on the top panel.
6. Depending on the type of output from your sound card (-10 dBV for consumer or +4 dBu for professional) you might need to push the input level switch in or out.

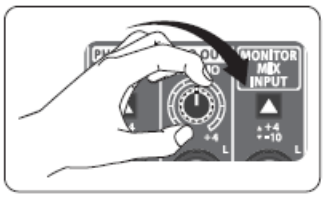


7. Turn the VOLUME knob up slowly. If the volume is lower than expected, adjust the trim knob for the monitor option you selected (A, B or C).

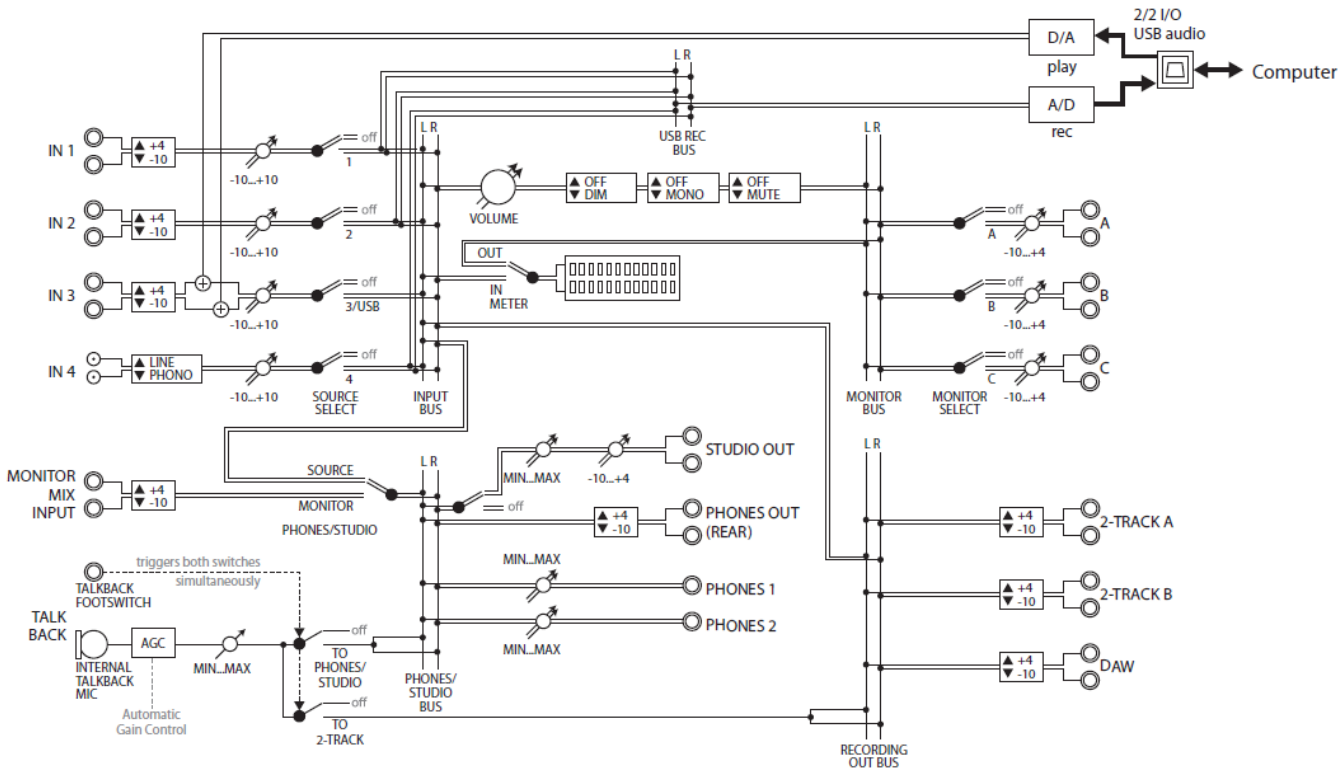


8. If you have a headphone amplifier connected to the rear PHONES output jacks, set the input level appropriate for your sound card via the input level switch. Gradually turn up the volume on your headphone amplifier to an appropriate level.
9. Each of the PHONES jacks on the front of the unit has its own volume control. Connect a pair of headphones to either of the phones input jacks and adjust volume to preference. To set the level for recording back to your DAW or external recording device, select the input source you wish to sendon the top panel (deselect any other input sources to avoid potential feedback loop). Connect the RECORDING OUT on the back panel to your DAW audio interface or external recording device and set the output level with the +4/-10 switch.

10. To set the level of the phonograph input, push 4 from the SOURCE SELECT section on the top panel. Make sure the rear LINE/PHONO switch is set to PHONO.
11. Begin playback on your phonograph and adjust the trim level on input 4 (back panel). Make final adjustments with the VOLUME knob.
12. The built-in TALKBACK microphone signal can be routed to the RECORDING OUT outputs (2-TRACK A, B and DAW) or to the PHONES/STUDIO OUT outputs (including both front panel headphones outputs). Push the button of the destination you wish to address then speak into the MIC. Make any adjustments to the signal by adjusting the TALKBACK knob.
13. To adjust the volume of the speakers connected to the STUDIO OUT jacks, turn the STUDIO OUT knob on the top panel clockwise. If the speakers require stronger signal output, adjust the STUDIO trim knob on the back panel.



XENYX CONTROL2USB Block Diagram



Specifications

Frequency Response	
Line-level inputs and outputs	
¼" jack, balanced or unbalanced	10 Hz to 40 kHz (+0 dB / -1 dB)
Phono input	20 Hz to 20 kHz (±1 dB)
Distortion (THD & IMD)	
Line-level inputs to line-level outputs (unity gain)	<0.02 %, 20 Hz to 20 kHz @ +4 dBu
Phono input	<0.10 %, 20 Hz to 20 kHz @ +4 dBu
Noise Floor	
Unity gain with Input 1, 2 and 3 assigned	-86 dBu, 20 Hz to 20 kHz
Monitor A, B and C outputs, studio output, DAW, 2-track A & B outputs	-90 dBu, 20 Hz to 20 kHz
Phono input	-75 dBu, 20 Hz to 20 kHz
Equivalent input noise (E.I.N.)	-119 dBu, 20 Hz to 20 kHz
Dynamic Range	
Line inputs	107 dB
Phono input	88 dB
Crosstalk	
Adjacent inputs	95 dB @ 1 kHz
Left to right / right to left	85 dB @ 1 kHz
Muted / level off	95 dB @ 1 kHz
Control Range	
Input level	±10 dB
Output level	-12 dB to 0 dB
Dim switch	0 dB / -20 dB
Rated Input Voltage	
Line inputs (+4 dB level setting)	+4 dBu / +30 dBu (nominal / maximum)
Line inputs (-10 dB level setting)	-10 dBu / +15 dBu (nominal / maximum)
Phono input @ 1 kHz, nominal gain	5 mV / 90 mV (nominal / maximum)
Rated Output Voltage	
All line-level outputs (+4 dB level setting)	+4 dBu / +21 dBu (nominal / maximum)
All line-level outputs (-10 dB level setting)	-10 dBu / +8 dBu (nominal / maximum)
Maximum Voltage Gain	
Input 1, 2 and 3 to:	
Monitor A, B and C outputs	+32 dB
DAW, 2-track A & B, and phones (rear) outputs	+22 dB
Studio output	32 dB
Phones 1 & 2 outputs	32 dB (output loaded @ 100 kΩ)
Monitor mix input to:	
Phones (rear) outputs	12 dB
Studio output	22 dB
Phones 1 & 2 outputs	22 dB (output loaded @ 100 kΩ)
Phono input @ 1 kHz to:	
Monitor A, B and C outputs	65 dB
DAW, 2-track A & B, and phones (rear) outputs	55 dB
Studio output	66 dB
Phones 1 & 2 outputs	66 dB (output loaded @ 100 kΩ)
Input Impedance	
Line input	20 kΩ balanced / 14 kΩ unbalanced
Phono input	40 kΩ
Output Impedance	
Line output	200 Ω balanced / 100 Ω unbalanced
Headphone output	50 Ω

Input/Output VU Meters	
12-segment LED	CLIP, +10, +7, +4, +2, 0, -2, -4, -7, -10, -20, -30 dB
Talkback Section	
Automatic gain control (AGC)	Yes
Nominal output level	+4 dBu (+4 dB output level setting)
Output level range	-∞ to +10 dB
Power Supply / Voltage (Fuses)	
Mains voltage	100-240 V~, 50/60 Hz
Fuse	T 1AH 250 V
Power consumption	15 W
Mains connection	Standard IEC receptacle
USB	
Audio	Stereo in / out
Connector	Type B
Sample rate	44.1 / 48 kHz
Dimensions/Weight	
Dimensions (H x W x D)	87 x 389 x 198 mm (3.4 x 15.3 x 7.8")
Weight	2.4 kg (5.3 lbs)

Other important information

1. 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.
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**. 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.
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
TUBE ULTRA GAIN MIC300

- Responsible Party Name: Music Tribe Commercial NV Inc.
- Address: 122 E. 42nd St.1,
- 8th Floor NY, NY 10168,
- United States
- Email Address: **legal@musictribe.com**

TUBE ULTRAGAIN MIC300
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:

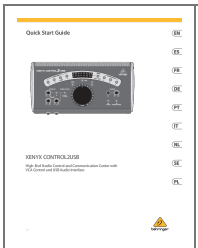
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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

- Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.
- Full text of EU DoC is available at **https://community.musictribe.com/**
- EU Representative: Music Tribe Brands DK A/S
- Address: Gammel Strand 44, DK-1202 København K, Denmark
- UK Representative: Music Tribe Brands UK Ltd.
- Address: 8th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom

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.

Documents / Resources

	**behringer XENYX CONTROL2USB Studio Control with USB Audio Interface** [pdf] User Guide XENYX CONTROL2USB Studio Control with USB Audio Interface, XENYX CONTROL2USB, Studio Control with USB Audio Interface, Control with USB Audio Interface, with USB Audio Interface, USB Audio Interface, Audio Interface, Interface

References