



## Professional Dual USB Mixer

### User Manual for: **MX-2**



[www.qfxusa.com](http://www.qfxusa.com)

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## **WARNING!**

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER OF THIS UNIT. THERE ARE NOUSER—SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO A QUALIFIED TECHNICIAN.**



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence Of “dangerous” voltage within the product’s enclosure that may be of sufficient magnitude to constitute a risk of Electric shock to humans. Users should exhibit extra safety when this symbol appears in this instruction manual and Follow all precautions as they are stated.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important Operating and maintenance (servicing) instructions in this manual.

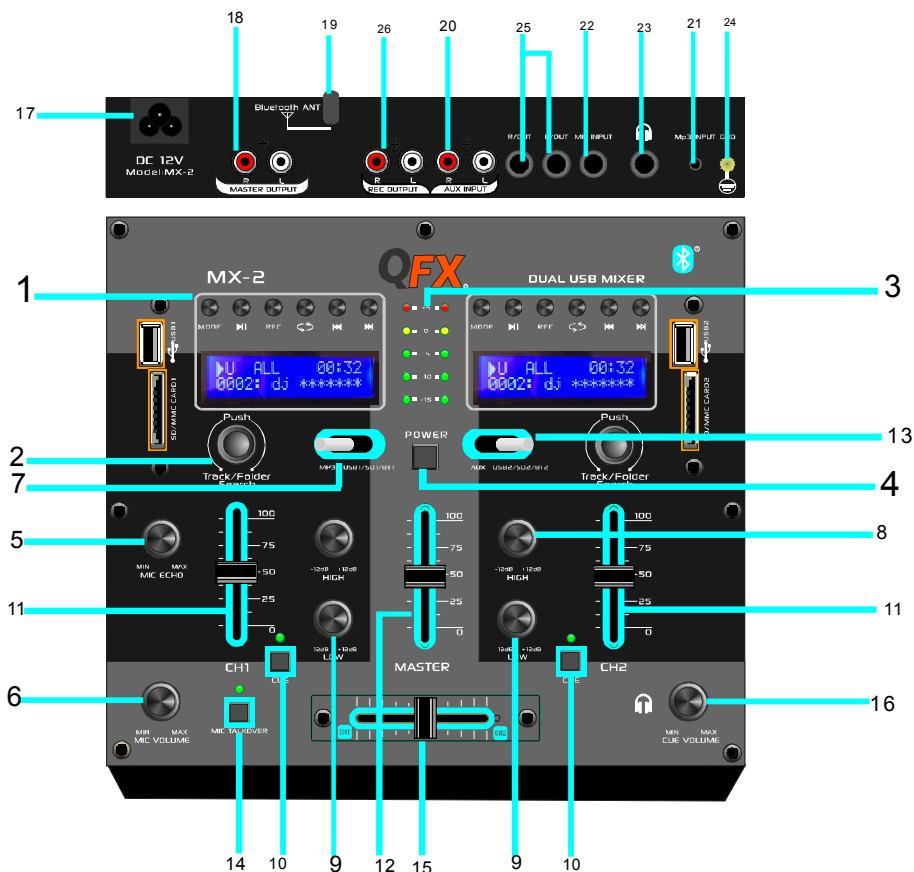
- 1- Read these instructions thoroughly before using this item.
- 2- Keep these instructions for future reference.
- 3- Heed all warnings.
- 4- Follow all instructions.
- 5- **WARNING:** To prevent fire or electric shock, do not expose this equipment to rain or moisture. Do not store or operate this product near any liquids.
- 6- Clean only with a dry cloth.
- 7- Do not store or operate this product near any heat sources such as radiators, heat registers, stoves, or other apparatuses (including amplifiers) that produce heat.
- 8- 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 plug has two blades and a round grounding prong. The wide blade or third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for the replacement of the obsolete outlet.
- 9- Protect the all wires connected to this unit from being walked on or pinched, particularly plugs and the point where they exit from the unit. When removing the cord from the power outlet, remove it by holding the plug not by pulling the cord.
- 10- Unplug the unit during lightning storms or when unused for long periods of time.
- 11- When wiring this unit and all other equipment used in connection to this unit make sure that all of your equipment is turned OFF.
- 12- Once installation and wiring is complete power on all your equipment with the volume and level controls turned DOWN. Once All the equipment is ON slowly raise the volume or level controls to their proper positions.
- 13- When grounding this unit, be sure to do so correctly, so as not to defeat the built-in grounding in this unit.
- 14- Before placing, installing, rigging, or suspending any product, inspect all hardware, suspension, cabinets, transducers, brackets and associated equipment for damage. Any missing, corroded, deformed, or non-load rated component could significantly reduce the strength of the installation, placement or array. Any such condition severely reduces the safety of the installation and should be immediately corrected. Use only hardware which is rated for the loading conditions of the installation and any possible short-term, unexpected overloading. Never exceed the rating of the hardware or equipment.
- 15- Consult a licensed, professional engineer regarding physical equipment installation. Ensure that all local, state and national Regulations regarding the safety and operation of equipment are understood and adhered to.
- 16- 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.

### **Introduction**

Congratulations and thank you for your purchase of this **QFX** Pro professional dual USB mixer, the **MX-2** . To get the most from our **MX-2** , it is recommended that you review all of the information provided in the instruction manual before operating the equipment.

If you’ve spent any time at all in professional audio, you know the name Technical Pro and what it stands for- incredible performance & sound, and the ultimate in reliability under harsh conditions. And now, Technical Pro offers the same technology in a series of mixers Bringing more of what sets Technical Pro apart from all others.

### MX-2 FRONT & BACK PANEL



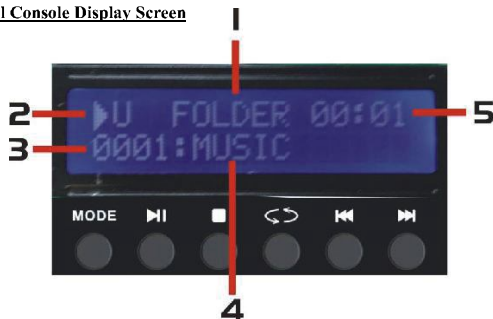
1. USB / SD Card / Bluetooth Control Console: There are two USB / SD Card Control Consoles, Channel 1 and Channel 2. After inserting a USB flash drive / SD Card into the input terminal press the mode button to choose between audio from the USB or SD Card input or Bluetooth. If you want to use the bluetooth in USB , you can press the MODE button under the ID3 screen and enter into BLUETOOTH mode. The screen shows “BLUETOOTH CONNECTED” when it paired. Bluetooth function is available on **USB1 and USB2**

Use the other controls, play/pause, stop, repeat (Current track / All tracks), previous track & next track to play audio from the USB flash drive / SD Card.

**NOTE: The USB input is ONLY meant to connect to a USB flash drive (thumb drive). Connecting a MP3 player or computer directly to the USB flash drive input will result in the unit failing to play the audio from those devices.**

**There is a 1/8" input on the rear of the unit designed to connect to a MP3 player or computer.**

#### USB / SD Card Control Console Display Screen



- (1) Search mode: When the word FOLDER is flashing on the screen, the unit is in FOLDER SEARCHING mode. Turn the FOLDER/TRACK knob to search through the folder. Press the FOLDER / TRACK knob to choose a track.  
Upon exiting the folder mode, the word ALL will appear on the screen. This indicates that the unit will play all the tracks from the USB flash drive / SD Card.  
When the REPEAT button is pressed, there will be 6 different displays depending on the setting you choose:  
ALL / NORMAL / SINGLE / FOLDER / RANDOM / BROWSE.
- (2) Input Source: The display will show U when set to USB mode and S when set to SD card mode. Press the mode button to switch from one input to the other.
- (3) Track Number: The track number (for all tracks on the entire flash drive) will appear here. In the picture above the unit is playing track number 1.
- (4) Track or Folder Information: The name of the folder will appear here. In the picture above the folder being played is named MUSIC.
- (5) Elapsed Time: The elapsed time of the current track will display here.

**2. Track / Folder Searching Knob:**

\* **Turn** this knob clockwise to search through all of the tracks inside the USB flash drive / SD Card. Each track will appear by the name of the track. It will show the tracks or folders chronologically (from when the files were loaded onto the USB flash drive / SD Card. Press the knob to begin playing the desired track.

First the tracks on the root file will be displayed and then the tracks that are in folders.

\* **Press** this knob to activate the folder searching function. Once pressed the word "FOLDER" will begin flashing on the display screen. Then, turn this knob clockwise to search the folders inside the USB flash drive / SD Card. Press the knob to begin playing the tracks from that folder.

3. Level Meter: The VU-meter (with LED indicators) will display the strength of the output signal.
4. Power Button: Press this button to power the unit on and off.
5. Microphone Echo Volume Control Knob: Turn this knob to adjust the microphone echo volume level.
6. Microphone Volume Control Knob: Turn this knob to adjust the volume of microphone
7. Channel 1 Input Selector: Use the selector to choose the desired inputs source. Channel 1 has three different input sources, AUX1 (Red and White RCA inputs on the rear of the unit), MP3 (1/8" input on the rear of the unit) and USB1 & SD1 (USB flash drive / SD Card inputs for Channel 1).
8. Treble Control: Turn this knob to adjust the high frequencies of Channel 1 & Channel 2.
9. Bass Control: Turn this knob to adjust the low frequencies of Channel 1 & Channel 2.
10. Cue Selector: Press this button to monitor the audio via the headphone connector.
11. Channel Fader: Move the fader up and down to adjust the volume of each channel.
12. Master Volume Fader- Move the fader up and down to adjust the master volume.
13. Channel 2 Input Selector: Use the selector to choose the desired inputs source. Channel 2 has two different input sources, AUX2 (Red and White RCA inputs on the rear of the unit) and USB2 / SD2 (USB flash drive / SD Card inputs for Channel 2) & Bluetooth. To switch between USB, SD and Bluetooth press the mode button on the CH 2 control console.
14. Microphone Talkover: When this button is pressed, all signal sources except the microphone will be reduced to 20dB. The Microphone Talkover is ideal for making announcements without stopping the music.
15. CH1 / CH2 Crossfader: Slide the crossfader to determine the balance between Channel 1 and Channel 2. To only play the audio from Channel 1 push the crossfader slider all the way to the left. To only play the audio from Channel 2 push the crossfader all the way to the right. To have an even balance of audio from Channel 1 and Channel 2 set the crossfader to the center position.
16. Headphones Volume Control Knob: Turn this knob to set the volume of the headphone output.
17. Power Supply: Connect the DC12V adaptor here
18. RCA Audio Output Terminals: Connect this output to the input on your equalizer, preamplifier or amplifier.
19. **Bluetooth ANTENNA**
20. RCA Audio Input Terminals for AUX1: Connect the audio output from your signal source (DVD player, MP3 player, etc.) to this audio input for Channel 2.
21. 1/8" (MP3) Input Terminal: Connect the audio output from a MP3 player/ computer to this audio input for Channel 1.
22. 1/4" Microphone Input: Connect the microphone to this input terminal.
23. Headphone Input: connect the headphone to this output terminal.
24. Grounding Connector
25. REC output:connect this output, the mixer signal can be Recode to other unit.
26. 6.5 R/L output:connect this jack to the input on your amplifier, equalizer, or preamp.

## Operating Instructions:

### Power Connection

#### *AC Power cord Connection*

To connect the power cord to your unit simply plug female side of the power cord into the power cord input which is on the rear of the unit. Then plug the male side of the power cord to an electric outlet. The AC power cord supplied purposefully has polarized 2 blades with one wider than the other. If your outlet is not equipped to handle this type of plug, do not attempt to forcefully plug this AC power cord into the outlet, and do not alter the plug so that it can fit in the outlet. The only course of action you can take is to find another outlet which is properly equipped to handle a grounded plug or have an electrician upgrade your electrical outlet. Be sure that the plug is well connected so that it does not fall out while you are in the middle of usage. If at any point in time the supplied AC power cord is punctured or damaged replace it with a new power cord from a local electrician.

#### *Power Switch*

After the power cord is connected the unit will still not be powered on until the power switch is pushed into the “On” position.

NOTE: ONLY PLUG IN THE AC POWER CORD WHILE THE UNIT'S POWER SWITCH IS IN THE OFF POSITION AND THE VOLUME IS TURNED DOWN. TURNING ON THE UNIT WITH THE VOLUME TURNED UP MAY DAMAGE THE AMPLIFIER / SPEAKER. ALWAYS TURN DOWN THE VOLUME PRIOR TO TURNING OFF THE UNIT. WHEN POWERING ON THE MIXER, FIRST POWER ON THE SIGNAL SOURCE, THEN POWER ON THE UNIT. ONCE THE MIXER IS POWERED ON, SLOWLY TURN THE VOLUME UP. WHEN POWERING OFF THE MIXER, FIRST LOWER THE VOLUME, THEN POWER OFF THE MIXER, AND THEN POWER OFF THE SIGNAL SOURCE.

### Input / Output Connections

#### *Connecting Audio Source(s) to the **MX-2** Mixer*

*Channel 1 has RCA, 1/8" ,USB and SD Card **Bluetooth**.input*

*Channel 2 has RCA, USB, SD Card & Bluetooth inputs.*

#### *USB & SD Card Inputs*

There are input jacks for a USB flash drive or SD card on the top panel of the DJ2USBT allowing you enjoy your music in just a matter of seconds. The USB flash drive & SD Card should not be larger than 32GB. The **MX-2** will only play .mp3 and .wma files from the USB flash drive or SD Card storage devices. Do not attempt to play any other file types as this will cause the unit to cease playback.

After connecting your USB flash drive / SD Card you can adjust the volume using the Channel fader and the master volume control.

When connecting a USB flash drive or SD Card to the **MX-2**, first load the device with all the songs you want to play. Then simply plug the device into the USB or SD Card input on the top panel of the unit and press play on the USB / SD controls panel. Use the USB / SD Card controls to play / pause the audio or go to the next / previous track.



#### *AUX & MP3 Input (RCA & 1/8")*

The AUX IN can be used to connect a MP3 player using the 1/8" input on the top panel or a stereo signal device such as a CD / DVD player using the RCA inputs (on Channel 1) on the rear panel. After connecting your device to the AUX IN, set the Channel 1 input selector to AUX. You can adjust the volume using the Channel 1 volume control & the master volume control.

#### *Bluetooth Input (1/8" & RCA)*

The Bluetooth input will allow you to connect a Bluetooth compatible device to channel 1 / 2 of the **MX-2**. First set the Channel 1 / 2 input selector (13)/(2) to **USB/SD/BT**. Then press the mode button to set the input to Bluetooth. Finally open your Bluetooth device and search for Bluetooth connections. Locate the **MX-2** and pair with it.

#### *Master Output (RCA)*

Once your audio sources are connected to the inputs on the **MX-2**, connect the master outputs on the **MX-2** to the audio inputs on the device next in the signal's path (pre-amplifier, equalizer and amplifier).

#### Connecting Microphones to the **MX-2** Mixer

There is one 1/4" microphone input on the rear panel of the **MX-2**. It is important to note that these inputs are to be used solely for a microphone. Do not attempt to use these inputs for any other use. To use, simply plug a microphone into the 1/4" input while the **MX-2** and microphone is in the OFF position and the microphone volume is turned down. Once plugged in power-on the **MX-2**, then power-on the microphone, then slowly increase the microphone volume knob (6).

#### Using the Crossfader

The crossfader will allow you to mix the audio from channels 1 & 2 and play that audio through the master output. Set the crossfader to the left to hear channel 1 only. Set the crossfader to the right to hear channel 2 only. Set the crossfader to the middle to hear both channel 1 & 2.

#### Using the Cue Selector

Use the cue knob to select which channel(s) will be played through the headphone output. Select the Cue for CH1 to hear Channel 1 through the headphones (etc..). Be sure to have the headphone volume knob (21) turned down, until you are ready to use the headphones and then slowly turn up the volume.



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 UNDESIRE OPERATION.

**Federal Communications Commission Requirements**

The equipment has been tested and found to comply with the limits for 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 instruction, may cause harmful interference to radio communication. 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.

THE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

**FCC Radiation Exposure Statement**

The equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. The equipment has very low levels of RF energy that it is deemed to comply without testing of specific absorption ratio (SAR).

The Bluetooth word mark and logos are registered trademarks owned by SIG, Inc. and any use of such marks by Technical Pro is under license. Other trademarks and trade name are those of their respective owners.

**Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

**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.**