USER MANUAL

Q-MIX MIXER

Q-MIX 4FX / Q-MIX 6FX

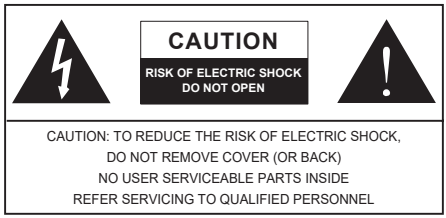
Important Safety Instructions

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. The MAINS plug is used as the disconnect device, the disconnect device shall remain readily operable.

Warning: the user shall not place this apparatus in the confined area during the operation so that the mains switch can be easily accessible.

1. Read these instructions before operating this apparatus.
2. Keep these instructions for future reference.
3. Heed all warnings to ensure safe operation.
4. Follow all instructions provided in this document.
5. Do not use this apparatus near water or in locations where condensation may occur.
6. Clean only with dry cloth. Do not use aerosol or liquid cleaners. Unplug this apparatus before cleaning.
7. Do not block any of the 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 is 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 plug, Convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a 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 lighting 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.



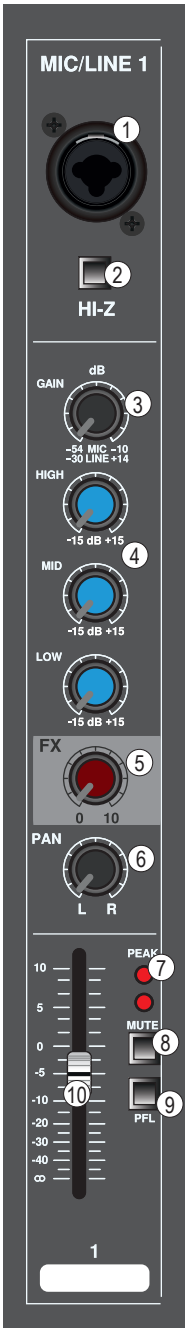
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

WARNING: To deduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.

Single-channel Panel Function Description



1. MIC/LINE jack

(1).MIC socket can connect 3-pole XLR input to receive balanced or unbalanced signals.XLR male connector can be connected to professional condenser, dynamic or ribbon microphones. With ultra-low noise preamplifier, it can output crisp and clear sound quality.

(2).LINE jack connects balanced 1/4" TRS and unbalanced TS inputs for balanced and unbalanced signals. A range of high level devices can be connected, such as electric piano, electric guitar, drum emulators and many other electronic instruments.

Note: Use of a condenser microphone requires phantom power to be activated at the same time, but unbalanced microphones and other musical instruments should not be plugged into the microphone jack when phantom power is turned on.

2. High impedance switch

This switch is used to switch the input impedance for use. For example, high impedance output guitars, basses, etc. need to be pressed when plugged directly into that channel. Musical instruments connected to the mixer socket need to use an unbalanced line, if you use a balanced line mixer can not work properly.

3. Gain Control for Microphone/Line input.

The gain knob is to adjust the sensitivity of the microphone/line input signal. Gain control range (MIC: -6dB to -50dB / LINE: -20dB to +20dB), it is recommended to adjust the gain to the appropriate position to ensure the sound quality. The peak indicator will flash when the gain adjustment is too much.

4. Equalizer.

HIGH: ±15 dB boost or attenuation adjustment for 12KHz high frequencies, used to adjust audio to increase the force of the sound, such as guitars, cymbals, music synthesizers, etc.

MID: Adjusts the midrange at 2.5KHz with ±15dB boost or attenuation. It's not easy to adjust the midrange when mixing professional audio, and people often want to attenuate rather than boost the midrange to soften harsh vocals and instrument sounds.

LOW: ±15dB boost or attenuation for low frequencies of 80Hz, which can be used to warm up the sound and add strength to guitars, drums and electronics.

5. Auxiliary control (EFX)

This knob can be used to adjust the output signal of the EFX.

6. PAN control.

This knob is a sound and image control potentiometer, adjust it to control the volume of the left and right channels. Adjust it to the left to control the right audio signal weakening, adjust it to the right to control the left audio signal weakening, adjust it to the middle for balanced signal output.

7. Peak indicator.

This is used to check the input signal clipping, peak indicator lights red when the gain potentiometer adjusted too much, to warn the output sound will be distorted.

8. Mute switch

No signal output from the channel when the switch is pressed.

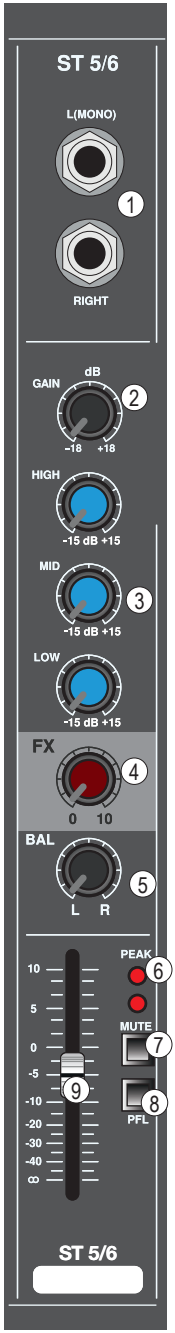
9. Monitor switch

Pressing this switch sends the signal to the headset as a priority.

10. 45mm fader

When the fader is pushed up, the Main L/R will output signal and the MASTER light will have the corresponding level indication. When the mixer is not in use, push the fader to the minimum to prevent unnecessary noise.

Stereo Channel Panel Function Description



1. Stereo line input socket.

Two jacks (L/MONO and LINE) for connecting balanced 1/4" TRS and unbalanced TS input signals, as well as for connecting high level devices such as electronic organs, electric guitars, drum emulators and other electronic instruments.

2. Gain Control for Line input.

The gain knob is to adjust the sensitivity of the line input signal. Gain control range(LINE +18dB---18dB), it is recommended to adjust the gain to the appropriate position to use to ensure the sound quality. When the gain adjustment is too large when the peak indicator will flash, resulting in the output signal is too large to cause sound distortion.

3. Equalizer.

HIGH: ±15 dB boost or attenuation adjustment for 12KHz high frequencies, used to adjust audio to increase the force of the sound, such as guitars, cymbals, music synthesizers, etc.

MID: Adjusts the midrange at 2.5KHz with ±15dB boost or attenuation. It's not easy to adjust the midrange when mixing professional audio, and people often want to attenuate rather than boost the midrange to soften harsh vocals and instrument sounds.

LOW: ±15dB boost or attenuation for low frequencies of 80Hz, which can be used to warm up the sound and add strength to guitars, drums and electronics.

4. Auxiliary control (EFX)

This knob can be used to adjust the output signal of the EFX.

5. BAL control.

This knob is a sound and image control potentiometer, adjust it to control the volume of the left and right channels. Adjust it to the left to control the right audio signal weakening, adjust it to the right to control the left audio signal weakening, adjust it to the middle for balanced signal output.

6. Peak indicator.

This is used to check the input signal clipping, peak indicator lights red when the gain potentiometer adjusted too much, to warn the output sound will be distorted.

7. Mute switch

No signal output from the channel when the switch is pressed.

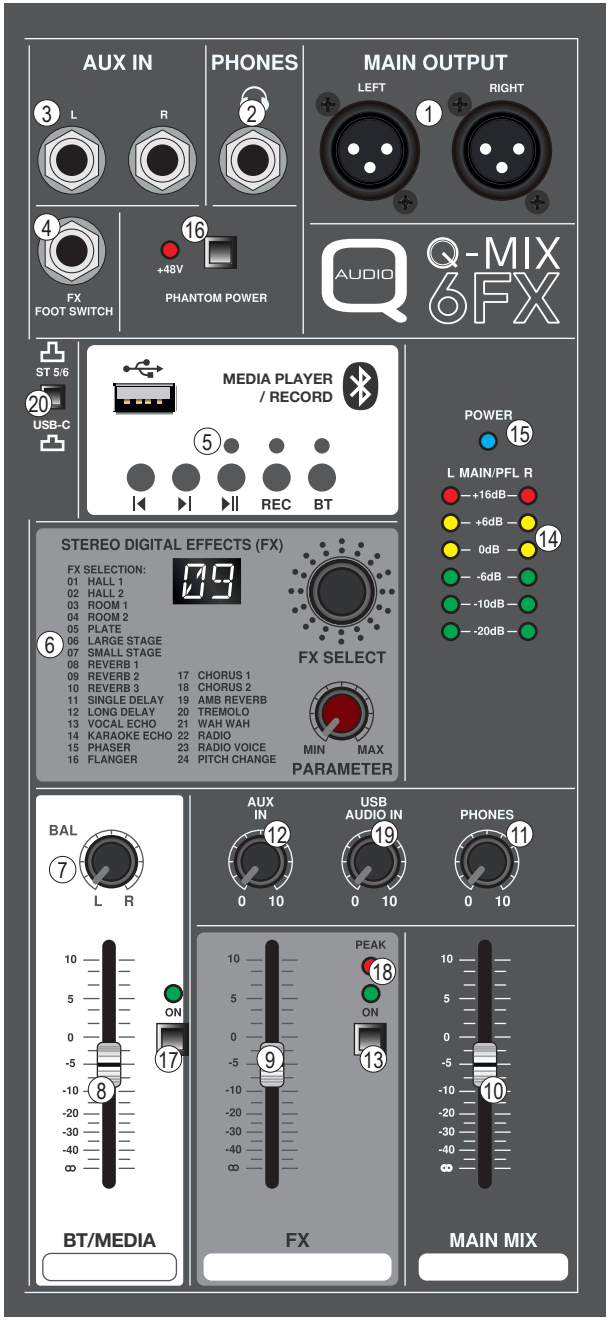
8. Monitor switch

Pressing this switch sends the signal to the headset as a priority.

9. 45mm fader

When the fader is pushed up, the Main L/R will output signal and the MASTER light will have the corresponding level indication. When the mixer is not in use, push the fader to the minimum to prevent unnecessary noise.

Main panel function description



1. Main L and R output sockets.

These two Main Mix sockets send balanced level signals to external devices such as power amplifiers (then to a pair of speakers) and other peripheral devices (equalizers, crossovers, active speakers, etc.).

2. Headphone output socket.

This socket can be plugged into stereo headphones to listen to the sound, adjust the Phones knob to control the volume of headphones.

3. AUX in socket.

Use these two 1/4" TS inputs return the external signal or processor-processed signal to the mixer.

4. FX FOOT switch.

This socket is for connecting an external footswitch.

5. MP3 Module

With Bluetooth/USB playback function and USB recording function.

6. DSP EFFECTS.

24 effects, adjust the PROGRAM to select different effects, the sound of each effect can be adjusted by the level control.

FX LOGIC:					
1	HALL 1	9	REVERB 2	17	CHORUS 1
2	HALL 2	10	REVERB 3	18	CHORUS 2
3	ROOM 1	11	SINGLE DELAY	19	AMB REVERB
4	ROOM 2	12	LONG DELAY	20	TREMOLO
5	PLATE	13	VOCAL ECHO	21	WAH WAH
6	LARGE STAGE	14	KARAOKE ECHO	22	RADIO
7	SMALL STAGE	15	PHASER	23	RADIO VOICE
8	REVERB 1	16	FLANGER	24	PITCH CHANGE

7. BAL knob

This is the balance knob for BT and MP3 sources. Turn it left to adjust the R output level, and turn it right to adjust the L output level.

8. BT/MEDIA fader

This fader controls the volume of BT/USB output.

9. FX Fader.

With the ON switch pressed, this fader is controlling the volume level of the FX, and the PEAK light will light on when the effect signal is too strong.

10. MAIN MIX faders.

Master volume faders, push up to increase volume, push down to decrease volume.

11. PHONES.

Stereo headphones volume control knob.

12. AUX IN

AUX Input Level Control Knob

Turn the knob counterclockwise to decrease the volume and clockwise to increase the volume. When the switch is pressed, the input signal is routed to the MAIN MIX.

13. FX Switch

The green indicator light illuminates and the FX signal is enabled when the switch is pressed.

14. MAIN and PFL Level Indicators.

These level meters provide accurate indication of the Main L/R output signal level and the PFL monitor signal level.

15. Power indicator

The blue lamp will light up when the power switch is ON.

16. PHANTOM POWER switch.

The +48V phantom power switch must be turned on when using condenser microphones, and the switch needs to be turned off when connecting a dynamic microphone.

Note: The phantom power should be shared with the condenser microphone. If the condenser microphone is not used, the phantom power should be turned off to avoid damaging the mixer's circuitry.

17. BT/MEDIA Switch

The green LED lights up when this switch is pressed to enable the BT/MEDIA signal.

18. FX PEAK Indicator

This indicator monitors the clipping status of the FX input signal. If the gain potentiometer is turned up excessively, the red peak indicator will light up to warn that audio distortion may occur at the output.

19. USB AUDIO IN

USB AUDIO IN Volume Control Knob: turn counterclockwise to lower the volume and clockwise to raise the volume.

20. Stereo / USB-C Toggle Switch

Released position: Stereo mode，

Pressed position: USB-C mode.

Rear panel function description

1. TYPE-C input socket

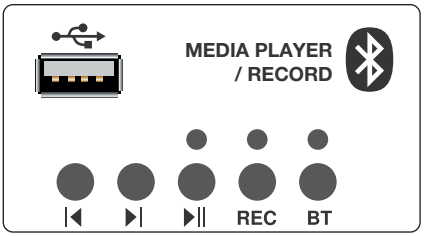
Input DC 5V/3A.

2.Power switch.

3. USB-C AUDIO Port

This port can be connected to a computer or mobile phone via a USB cable for audio transmission and audio recording, and it supports charging mobile phones. It cannot be used to charge other devices.

Bluetooth, USB playback and recording operating instructions



1.USB playback operation:

Plug in the USB disk and then press the play button to start playing, the button operation has the previous song, the next song, play pause, record button and other functions.

2.Bluetooth playback operation:

Open the phone into the Bluetooth state, and then press the mixer's BT switch for pairing and connection, when the blue light is on, it means that the Bluetooth connection is successful, and the phone will be able to play the audio wirelessly after it is connected.

3. USB flash drive/recording operation:

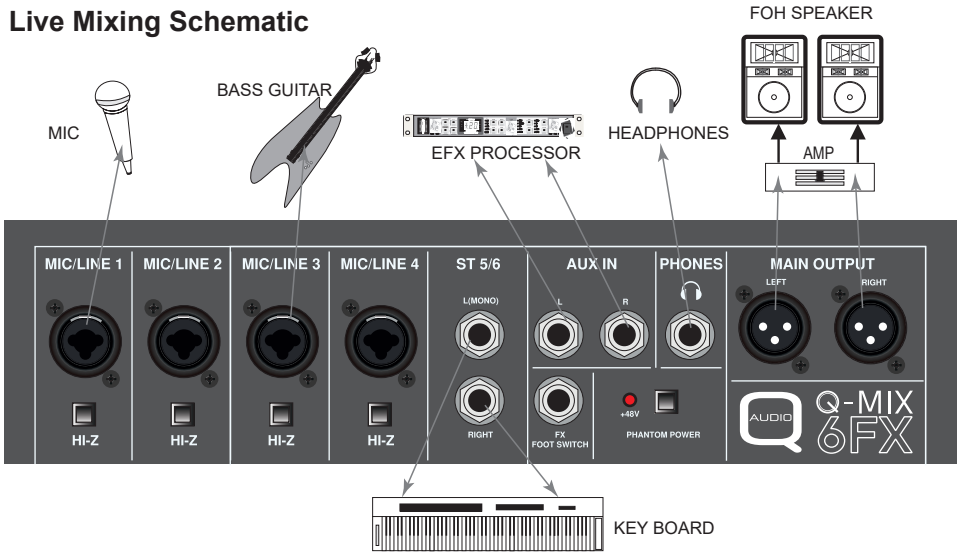
First plug in the USB flash drive, use your cell phone to connect to Bluetooth to play music, and then push the mixer MP3 volume control fader to the right position, finally press the REC button to start recording, the recording red light keep solid, press the REC button again to stop when the recording is completed.

If you need to record the signal of the MIC channel, plug in the microphone to talk to adjust the gain and fader to the appropriate position, press the REC button to start recording, press the REC button again to stop when the recording is completed.

Specification

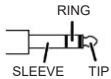
Model	Q-MIX 4FX	Q-MIX 6FX
Mic Input	2	4
Line Input	2	4
Stereo Input	1	1
Frequency Response	20Hz-20KHz， +1/-1dB	20Hz-20KHz， +1/-1dB
Distortion	0.005%	0.005%
SNR	>80dBu	>80dBu
Noise	>-92dBu	>-92dBu
Equivalent Noise	-128dBu	-128dBu
Crosstalk	>70dBu	>70dBu
Phantom Power	+46V	+46V
Mic Input Impedance	2.2KΩ	2.2KΩ
Line Input Impedance	10KΩ	10KΩ
Output Impedance	100Ω	100Ω
Main out(balanced output)	+26dBU	+26dBU
FX OUT(unbalanced output)	+20dBU	20dBU
Phones Out	200mW(200Ω)	200mW(200Ω)
High EQ(12KHz)	+/-15dBU	+/-15dBU
Mid EQ(2.5KHz)	+/-15dBU	+/-15dBU
Low EQ(80Hz)	+/-15dBU	+/-15dBU
USB2.0 Input & Output	2-in, 2-out	2-in, 2-out
USB2.0 Depth	24bit	24bit
USB2.0 Sample Rate	48Khz	48Khz
DSP	with display/24 kinds of effects/depth of each effect can be adjusted	with display/24 kinds of effects/depth of each effect can be adjusted
MP3	Bluetooth/USB playback, U disk recording	Bluetooth/USB playback, U disk recording
Fit 19" Rack	NO	NO
DC:5V INPUT	YES	YES
Dimension(L*W*H)	310*255*65mm	310*320*65mm

Live Mixing Schematic



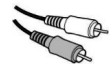
General Wiring Diagram

List Of Sockets And Plugs

SOCKETS AND PLUGS	SOCKETS AND PLUGS	SOCKETS AND PLUGS
MIC/LINE, MIC, STEREO OUT	PIN1: GROUND PIN2: HOT(+) PIN3: COLD(-)	 XLR JACK
MIC/LINE*, AUX SEND, GROUP OUT, MONITOR OUT, STEREO OUT	TIP: HOT(+) RING: COLD(-) SLEEVE: GROUND	 TRS HEADPHONE CONNECTION PLUG
PHONES	TIP: L RING: R SLEEVE: GROUND	
LINE(STEREO INPUT CHANNEL)	TIP: HOT(+) SLEEVE: GROUND	

*These jacks can also be connected to TS PHONE plugs. When using a TS PHONE type plug, the connection is an unbalanced connection

Plug Types

XLR The 3-pin plug is resistant to externally generated noise and is mainly used for balanced connections. XLR connectors are standard accessories for microphone connections and most professional audio equipment.	
PHONE PHONE plugs can be connected to TRS and TS types. TRS type is used for stereo headphone jacks, INSERT jacks, and can also transmit balanced signals in a variety of situations. TS type is used to transmit unbalanced models - such as electric guitar cables.	
RCA Pin Type This type of unbalanced plug is more commonly used in home audio and video equipment. RCA-type pin jacks are usually in color: white for the left audio channel and red for the right audio channel.	

Block Diagram