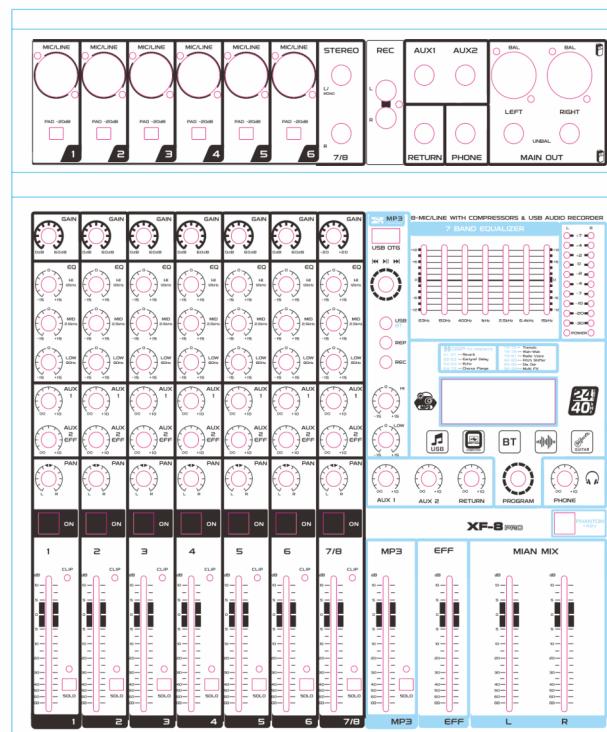


# PROFESSIONAL MIXER SERIES

## User Manual

## PROFESSIONAL MIXER SERIES MX SERIES



## MX SERIES

INSTRUCTION MANUAL FOR PROFESSIONAL MIXER  
**OPERATING INSTRUCTIONS**

## MATTERS NEEDING ATTENTION

### - Safety Operation Instructions -



#### Install

- \* This AC power adapter can only be plugged into an AC power socket of the specifications specified in this user manual or shown on this adapter. Failure to do so may result in fire or electric shock.
- \* Do not allow water to enter the device or make it damp. Failure to do so may result in fire or electric shock.
- \* Do not place containers containing liquids or small metal objects on this device. Otherwise, liquid or small metal objects falling into the device may cause fire or electric shock.
- \* Do not press heavy objects (including this device) on the power cord. Otherwise, the power cord may be damaged, which may lead to fire or electric shock. In particular, do not put heavy objects on the power cord covered by the carpet.

#### Controls

- \* Do not scratch, bend, twist, stretch or heat the power cord. Otherwise, the power cord may be damaged, which may lead to fire or electric shock.
- \* Do not open the cover of the device. Failure to do so may result in electric shock. If you think the interior needs repair, maintenance or repair, please contact the distributor.
- \* Please do not modify the device without authorization. Failure to do so may result in fire or electric shock.
- \* If lightning strikes, please turn off the power switch of the device as soon as possible and pull out the power plug.
- \* When lightning occurs, do not touch the power plug while plugged. Failure to do so may result in electric shock.



#### Install

- \* Please avoid using this device in the following situations:
  - Exposure to splashing oil and steam, such as near kitchen stoves, humidifiers, etc.
  - Unstable surfaces, such as wobbly tables or bevels.
  - Exposure to excessive heat, such as inside a car with Windows closed or in direct sunlight.
  - Places that are exposed to high humidity or dust accumulation.
- \* Hold the plug part when removing the power plug from the AC power outlet. Do not pull the cable directly. Otherwise, the power cord may be damaged, which may lead to fire or electric shock.
- \* Do not touch the power plug with wet hands. Failure to do so may result in electric shock.
- \* To move the device, first unplug the power from the AC power outlet and unplug all connecting cables. Otherwise, the cable may be damaged, which can lead to fire or electric shock.

#### Controls

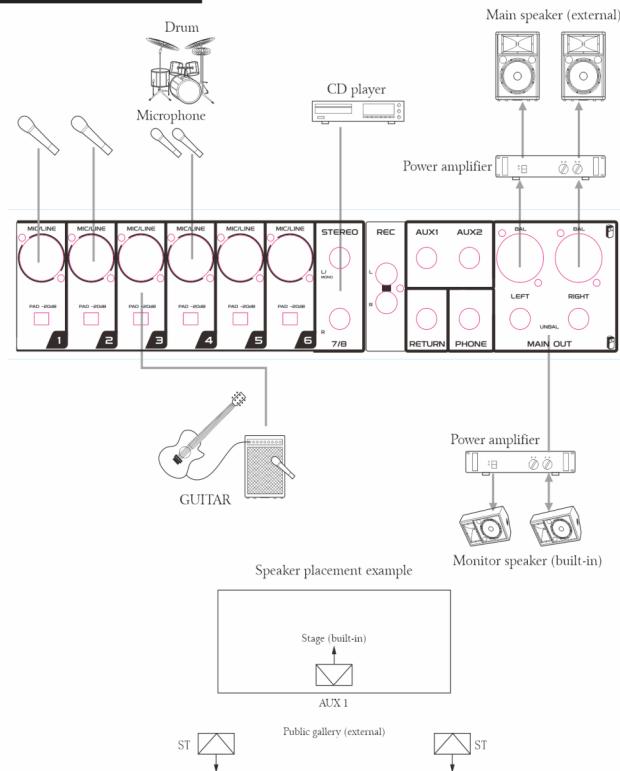
- \* Do not cover or wrap the AC power adapter with a cloth or blanket. Otherwise, heat can build up in the cloth or blanket, melting the adapter housing or causing a fire. Only use in a well-ventilated environment.
- \* If you are not going to use the device for a long time, such as going on vacation, please remove the power plug from the AC power socket. Otherwise it could lead to a fire.



- \* When the mixer is not in use or lightning is occurring in the area, be sure to remove the power plug from the power socket.
- \* To avoid unnecessary noise, keep enough distance between the power amplifier and the mixer.

## CONNECTION AND INSTALLATION

### Connection and installation



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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

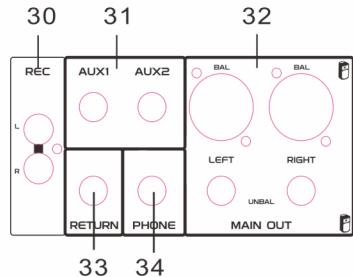
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

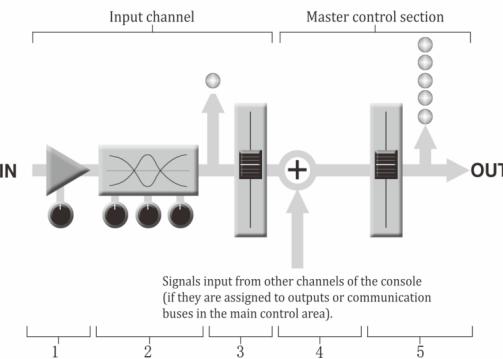
## INPUT/OUTPUT PART

### Input/output part



## GET THE BEST OUT OF THE MIXER

### Simplified mixing console block diagram



When the signal enters the box after the direction

### ■ Input channel

#### 1. Preamplifier

The first stage of any mixer workflow usually has significant "gain" or "amplification" features only at that stage. The preamplifier has a "gain" control function to adjust the input sensitivity of the mixer to match the signal source level. Weak signals (such as microphone signals) are amplified and larger signals are weakened.

#### 2. Equalizer

The equalizer may simply be a low or high frequency controller, or a fully formed four-band parametric equalizer. When enhanced, the EQ stage also has a gain function. The actual input channel can be overloaded by applying excessive EQ enhancement. A weakening is usually more effective than an enhancement.

#### 3. channel peak indicator and attenuator

The channel peak indicator is the most useful tool when setting the input gain control to get the best results. Note that it comes after the preamp and EQ.

#### 4. Adding amplifier

This is where the mixer really works. All the signals entered from the various input channels of the mixer are "added" (mixed) here.

#### 5. Main attenuator and level meter

A stereo, mono channel, or communication bus master attenuator and mixer master output level meter. Several main attenuators may be configured depending on the specific design of the mixer, such as depending on the communication bus or number of outputs provided.

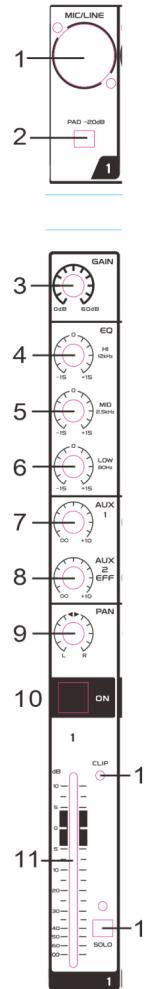
### Steps for level setting for best results

1. First set all level controls to the minimum: main attenuator, group attenuator (if any), channel attenuator and input gain control. It is also confirmed that no EQ (enhancement or weakening) is performed, and all effectors and dynamic processors in the system are turned off or bypassed.
2. Load one source signal into one channel at a time: audition, play and play at the desired maximum level. Gradually increase the input gain as the signal is loaded into the appropriate channel until the peak indicator begins to blink, then dial back a little to the point where the peak indicator flashes only occasionally. Repeat the preceding steps for channels that are not open.
3. Raise the main attenuator and group attenuator (if any) to the nominal level (i.e. the "0" mark on the attenuator scale).
4. Now, load all signal sources simultaneously, turn up the channel attenuator, and set the initial mixing level.

The above are all basic operations. When setting the mix, the eye must look at the main output level meter to avoid staying in the peak area. If the output level meter stays at the peak, the channel attenuator must be lowered until the overall playback track falls within a good range, depending on the specific track material being played.

## CHANNEL CONTROL SECTION

### Channel control section



#### 1. MIC input interface

Balanced XLR input interfaces provide high-quality voice playback  
A 48V phantom power supply is also available via button using a capacitive microphone  
Be sure to turn off the volume fader before activating the phantom power

#### 2. Channel signal attenuation button

When the channel peak light shines, the input signal should be attenuated by pressing the attenuating button

#### 3. Channel gain control knob

Used to control the microphone line input level  
Channel +10 to 60DB gain can be achieved

#### 4. Channel high frequency adjustment knob

Control the +15DB increase or decrease of the channel equalizer high band on 12KHZ

#### 5. Intermediate frequency adjustment knob

Control the +15DB increase or decrease of the frequency band on 1.2KHZ in the channel equalizer

#### 6. Channel bass adjustment knob

Control channel equalizer high band +15DB increase or decrease at 80HZ

#### 7. AUX send knob

Controls the level of the signal sent to the auxiliary output bus

#### 8. Effect sending knob

Controls the level of the signal sent to the built-in effect

#### 9. PAN sound balance knob

Control left and right channel sound and image balance in stereo

#### 10. Channel mute button

Press this key to mute the channel

#### 11. The channel volume decreases

Adjust the volume of the bus bar that accesses the sound mixing console

#### 12. Channel monitoring switch

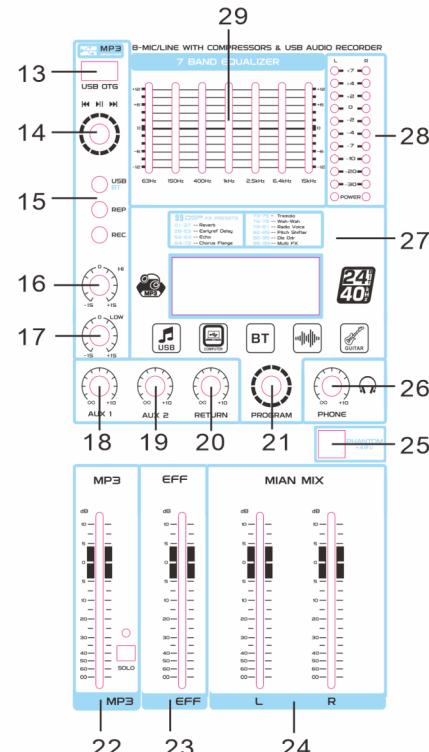
Press this switch and the monitoring indicator lights up  
The channel's sound is assigned to the listening channel

#### 13. Channel peak indicator

When the input signal of the channel is too large, the indicator light will shine, and the input volume of the channel should be reduced

## MASTER CONTROL SECTION

### Master control section



#### 13. USB port

This interface is used to connect the USB flash drive to the computer

#### 14. Player control knob

(clockwise rotation) Next  
(counterclockwise rotation) last  
Press (play, pause) function

#### 15. Player operation button

USB/BT key: Long press this key to switch between Mp3 playback and Bluetooth playback  
REP key: In the MP3 playing state, press to switch the track playing mode  
REC key: Long press this key to automatically enter the recording when the USB flash drive is inserted  
After recording, press and hold to exit. Press to play the recording file automatically

#### 16. Player treble adjustment

Control the +15DB increase or decrease of the channel equalizer high band on 12KHZ

#### 17. Player bass adjustment

Control channel equalizer high band on 100HZ -15DB increase or decrease

#### 18. Auxiliary output level adjustment

Controls the auxiliary AUX1 volume to the total volume of the auxiliary output interface

#### 19. Auxiliary output level adjustment

Controls the auxiliary AUX2 volume to the total volume of the auxiliary output interface

#### 20. RET mono input level regulation

This knob adjusts the stereo lotus input volume

#### 21. Effect mode selection knob

Turn the Mode selection knob to select an effect number  
The blinking number on the monitor shows the preset program that has just been selected  
To confirm the selected preset program, press the knob to stop blinking at this point

#### 22. USB channel volume fader

Adjust the volume of the USB media player

#### 23. Effect volume fader

Adjust the effect mixer master volume

#### 24. MAIN Main output volume fader

Adjust the fader to bring the main output level to an ideal state