

# MAG6808

## Network Mixing Console



### Description

The MAG6808 Network Audio Mixing Console is a professional all-in-one paging and audio control console designed for IP-based public address systems. Featuring a built-in 7-inch touchscreen, intuitive graphical interface, and stable embedded processor, it delivers smooth and reliable operation for daily broadcasting, zone paging, and audio management. Multiple audio inputs, independent channel controls, and programmable one-touch paging keys provide flexible operation, while built-in Bluetooth and advanced monitoring functions make it an ideal solution for schools, offices, transport hubs, factories, and commercial facilities.

### Features

- Come with a 7-inch touch screen, easy to operate, with graphic menu and humanized man-machine interface.
- Adopt high-speed industrial-grade chip and embedded processor, stable and reliable.
- With 8 programmable buttons. Each button can be preset with a zone on the host to realize the function of broadcasting local or network notices to any terminal in the public address system with one button, which is convenient and quick.
- With four groups of mono balanced input interfaces and two groups of stereo input interfaces. Each input channel has a mute button and an independent gain adjustment knob. At the same time, each

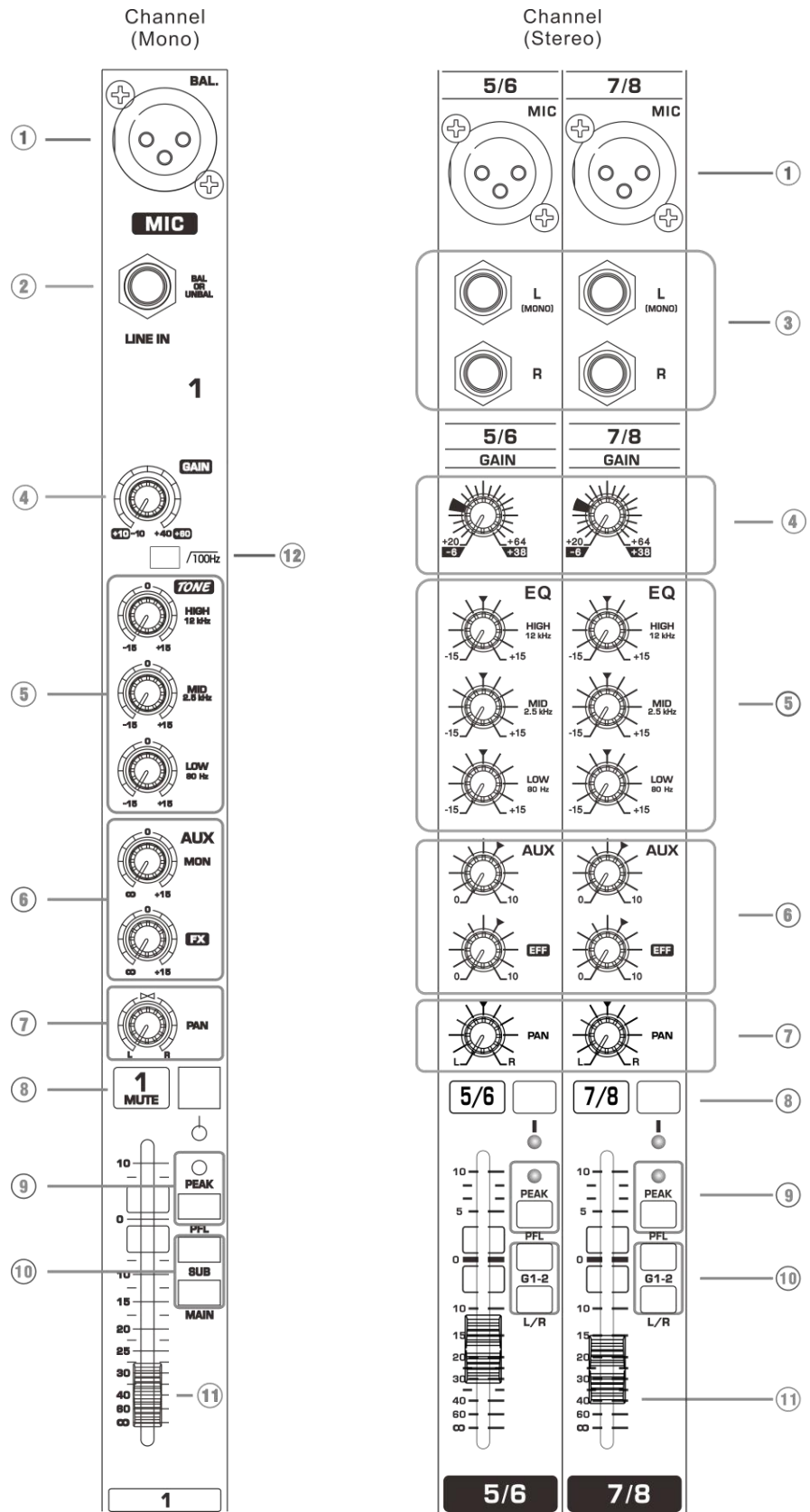
channel has a three-band EQ balance adjustment knob for middle, treble and bass, and a separate volume adjustment fader, as well as an independent switch button for easy operation.

- With USB and Bluetooth playback functions. The user can play the previous song, the next song, pause and other functions. Support mixing with the local input audio source and pushing it to the required partition.
- With 1 local microphone input and automatic dodge function, which can automatically reduce the volume of the local background music when speaking and can preset the depth of silence.
- Can remotely play the server program to other IP audio terminals through the network, and can arbitrarily select the terminal to play the program, with adjustable broadcast volume.
- With multi-channel stereo audio output (suitable for various types of plugs), support recording output and monitor output simultaneously, with output selection buttons.
- Come with a high-fidelity MP3 player, which can play files in MP3, WMA, OGG and other audio formats, and can convert the music in the USB card into a network data stream and transmit it to other terminal devices.
- With high-fidelity recording function, which can record the signals input by microphone and line with high quality. The recorded files are stored in USB and can be played at any time.

## Specifications

Model	MAG6808
MIC Rod IN Sensitivity	25±5mV
MIC Rod Distortion (1kHz/1V)	≤0.5%
Effective Frequency Range of MIC Rod Gain Limit (±3dB)	70-16000Hz
MIC Rod SNR (30k low pass)	≥68dB
MIC IN Sensitivity	60±10mV
MIC Distortion	≤0.5%
Effective Frequency Range of MIC Gain Limit (±3dB)	30-14000Hz
MIC SNR (30k low pass)	≥68dB
AUX IN Sensitivity	500±50mV
AUX Distortion (1kHz/1V)	0.5%
AUX SNR (30k low pass)	≥70dB
Effective Frequency Range of AUX Gain Limit (±3dB)	20-14000Hz
Effective Frequency Range of Monitor(Intercom Voice) Gain Limit (±3dB)	25-20000Hz
Monitor SNR (Intercom Voice)	≥70dB
Working Voltage Range	AC175~240V
Standby Power Consumption	7.2W
Power Supply	AC220V/50Hz
Package Dimensions (mm)	510×445×210
Product Dimensions (mm)	430×385×135
Gross Weight	6.3kg
Net Weight	5.2kg

Channel Control Part



**Mono Channel Input Port**

① MIC Jack  
These are balanced XLR input jacks.

② LINE Port

These are balanced headphone input jacks. Balanced or unbalanced headphone plugs can be inserted to these jacks.

Note: When an input channel can provide both MIC jack and LINE port, you can use one of the jacks, but not both. Only one jack of each channel can be connected at a time.

### Stereo Channel Input Port

③ These are unbalanced input jacks. Two types of jacks: Headphone type and RCA pin type. Use these jacks to input stereo signals.

#### ④ GAIN Control

Adjust the input signal level. In order to obtain the optimum balance between SNR and dynamic range, adjust the input signal level to make the peak indicator (⑨) light up only at the maximum input level.

#### ⑤ Equalizer

This three-band equalizer can adjust the channel in three frequency bands: high, mid and low. Set the knob to the **0** position to produce a flat frequency response. Turn the knob to the right to enhance the corresponding frequency band, while to the left to attenuate it. The following table shows the EQ type, base frequency and maximum attenuation / enhancement for the three frequency bands.

Frequency Band	Type	Base Frequency	MAX. Attenuation / Enhancement
HIGH	Ramp	12 kHz	± 15 dB
MID	Ramp	2.5 kHz	
LOW	Ramp	80 kHz	

#### ⑥ AUX & **FX** Control

The AUX knob controls the signal level sent by this channel to the AUX1 bus; the **FX** knob controls the signal level sent by this channel to the **FX** bus. Please note that the signal level varies with the channel attenuator settings.

Normally, these knobs should be set near the **0** position.

#### ⑦ PAN Control

PAN control determines the positioning of the channel signal on the SUB1-2 bus or stereo L and R

bus.

#### ⑧ MUTE Switch

If press this switch, this channel will stop sending signals to all buses (except for PFL monitoring), and all outputs have no signal output, only for this channel. At this time, the indicator is yellow. Do not press this switch for normal use.

#### ⑨ PEL Switch

This switch is used to monitor the channel pre-attenuator signal. To set this switch to ON, please press this switch (■) to make the indicator on. When the switch is turned on, the mixing console will output the channel pre-attenuator signal to PHONES and C-R OUT jacks for monitoring.

#### PEAK Indicator

It detects the peak level of the post-equalizer signal, and lights up red when the level reaches 3dB below the cutoff level.

(Peak monitoring and PFL monitoring share this indicator.)

#### ⑩ SUB. GROUP / MAIN. MASTER Switch

Use these switches to send the channel signal to the group SUB1-2 bus. Use these switches to send the channel signal to the main channel MAIN L R bus.

Set thus switch to ON (■) to send the signal to the corresponding group bus.

#### ⑪ Channel Attenuator

Adjust the output level of the signal input to this channel. Use these attenuators to adjust the volume balance between channels.

Note: Turn the attenuator knob of the unused channel to the lowest position, so as to reduce noise.

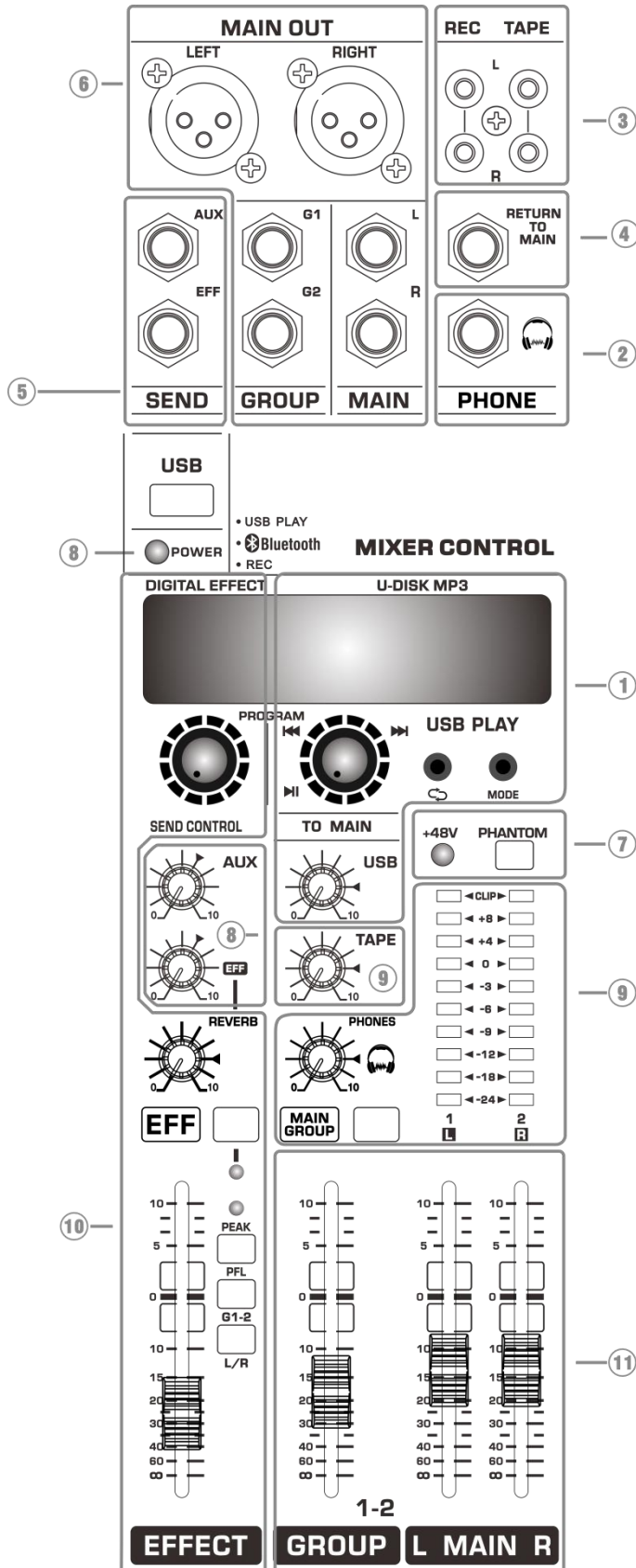
#### ⑫ LOW CUT Switch

Low-frequency attenuation switch: The low-frequency attenuation switch on the microphone is used to filter out the audio frequency below 100Hz. Generally, the audio frequency below 100Hz mostly comes from the surrounding, such as low-frequency noise caused by

speakers or even lines, or low-frequency whistle caused by stage vibration or low-frequency circuit. The low-cut function can effectively reduce the impact of environmental noise or stage vibration on singing or recording. But it is double-edged.

Filtering out the audio frequency below 100Hz may also lose some details and affect the overall sound effect, so the low-cut function is set with a switch, and the user can decide freely as needed.

## Main Control Part



### ① USB Player

Insert a USB flash disk with music files in MP3 or WMA format into the player jack. The music player will send the signal to the main bus or group bus and can support 320K files in MP3 format.

### ② PHONES Jack

Headphone connection jack. This is a balanced headphone type output jack.

### ③ REC OUT / TAPE IN (L/R) Jack

REC OUT

Connect an external recorder through these jacks to record the same signal output from the MAIN OUT jack.

TAPE IN

Use these jacks when connecting a stereo source signal (CD or DAT) directly to the mixing console for monitoring.

### ④ RETURN L (MONO) / R Jack

This jack is used as an auxiliary stereo input. If only connect the L (MONO) jack, the mixing console will take the signal as a mono signal and send the same signal to the L and R jacks.

### ⑤ SEND Jack

● AUX 1-2

These are impedance balanced headphone type output jacks, used to output the signals from the AUX.

● **FX** / EFF

This is an impedance balanced headphone type output jack and outputs the signal from the **FX**. For example, use this jack to connect an external effector.

### ⑥ Main Output Part

MAIN OUT (L/R) Jack


These jacks output the tuning signal whose level is


controlled by the MAIN attenuator of the main control part. The output in the stereo (L and R) channel. For example, use these jacks to connect the power amplifier driving the main speaker.

#### SUB OUT 1-2 Jack

These are impedance balanced headphone type output jacks, used to output Group 1-2/3-4 signals. Use these jacks to connect the input jacks of an MTR, external mixing console or other similar devices.

#### ⑦ PHANTOM +48V Switch

This switch can turn on or off the phantom power supply. (  ) The mixing console will supply power +48V to all channels with MIC input jack.

When using one or more condenser microphones, please set this switch to ON (  ).

#### ⑧ POWER Indicator

When the mixing console is powered on, this indicator will be on.

#### ⑨ PHONES/C-R Control

Control the signal level output to the PHONES jack and the C-R L and R jacks.

#### Signal Switch

This switch, in conjunction with the channel PFL switch, selects the level signal sent to the PHONES jack and the C-R OUT jack through the PHONES/C-R control.

#### Level Meter

The LED display indicates the signal level (the signal level sent to the C-R OUT and PHONES jacks) selected by the selection switch described in ⑧. It corresponds to the "0" point of the standard output

level. When the output level reaches the cutoff level, the indicator will be red.

#### ⑩ Digital Effect Control



- ▲ UP ▼ DOWN Button

Select the internal digital effect.


- REVERB DELAY Control

Adjust the parameters of the selected effect (depth, speed, etc.).


-  Switch

Enable or disable the internal effector. (  ) When this switch is turned on, the internal effector will be enabled. (  ) When this switch is pressed, the internal effector will stop working, and the indicator will be yellow.


- PFL Switch

To output the internal effector signal to the PFL bus, please set this switch to ON (  ).

- SUB. GROUP Switch

Set this switch to ON (  ) to output the internal effector signal to the group 1-2 bus.

- MAIN. MASTER Switch

Set this switch to ON (  ) to output the internal effector to the main channel L-R bus.

- **FX** PTN Attenuator

Adjust the signal level sent from the internal effector to the SUB and MAIN buses.

#### ⑪ MAIN and SUB Attenuator

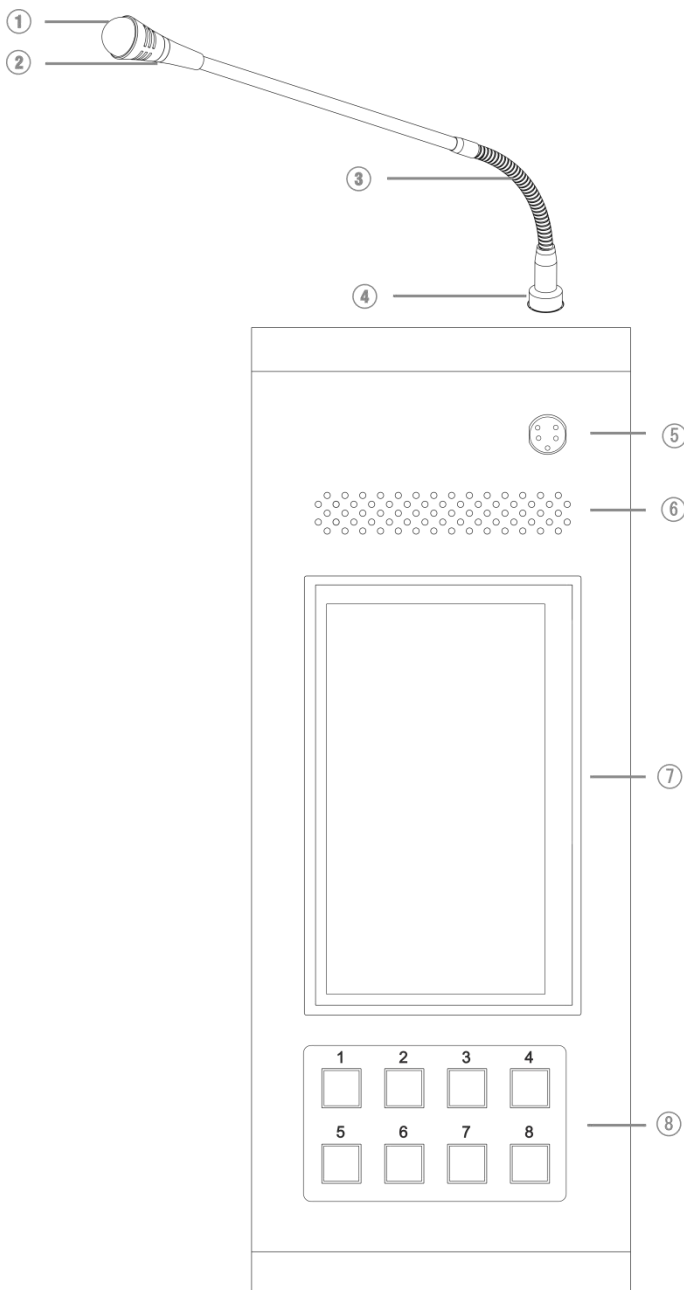
- MAIN Attenuator

Adjust the signal level sent to the MAIN OUT (L-R) jack.

- SUB Attenuator (1-2)

Adjust the signal level sent to the SUB OUT (1-2) jack.

## Paging Operation Part



### ① Microphone Head

Do not knock or hit the microphone head when using.

### ② Microphone Switch Indicator Ring

- This indicator ring will be on as long as the microphone is turned on to start paging;
- This indicator ring will be on synchronously

with the indicator light of the microphone switch button when paging a zone.

### ③ Microphone Rod

The user can adjust the microphone angle freely.

### ④ Microphone Connector

5-pin XLR connector:

- Pin-1 for the red light of the tube microphone head;
- Pin-2 for the blue light of the tube microphone head;
- Pin-3 for the voice signal input;
- Pin-4 for the signal input ground terminal;
- Pin-5 for the indicator power supply of the tube microphone head.

### ⑤ Microphone Jack

5-pin XLR jack, corresponding to the 5-pin XLR connector on the microphone rod.

### ⑥ Monitor Speaker Window

Used to output the voice of the other side during the intercom, and to pre-listen to the mixing console and network audios.

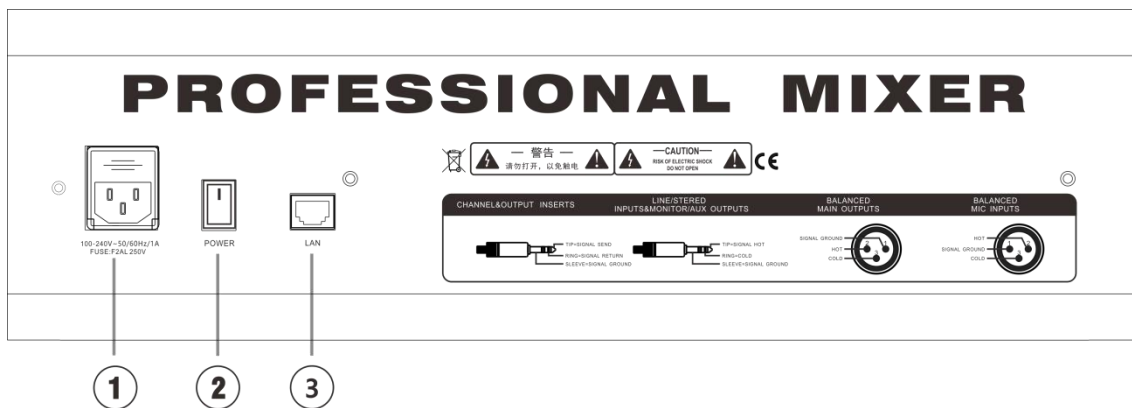
### ⑦ LCD True Color Screen

Display the working status of the mixing console and the operation item interface; touch the screen to perform option operation.

### ⑧ User-defined Paging Button

The user can customize the button to bind the corresponding partition through the "Button Setting" item of the software, and then the user can press the button to page the bound partition with one key, and press the button again to turn off paging.

## Power Input Part on the Rear Panel



### ① AC IN Connection Port

Power input port, with power consumption of about 30W.

### ② POWER ON Switch

Use this switch to set the power of the mixing console to ON or STANDBY.

Note: Please note that when the power switch is set to STANDBY, there is still a small amount of electric current in the system. When the mixing console is not used for a long time, please make sure to pull out the power adapter from the power outlet.

### ③ Network Interface (LAN)

Connected to the network host or the network switch.