DMX08 DMX12 DMX16

Professional Mixing Console

DMX08

DMX12

DMX16

Description

This mixing console is easy to operate, and it can be used in various environments, therefore, it is the ideal equipment to set various installation systems and many other purposes.

It can provide multiple input channels and mix these signals into stereo and grouping output signals. Due to the high quality of the built-in digital effects, it can directly provide a wide range of impact effects. It also comes with a SEND socket which can be used to connect to an external effector. The monitor is equipped with the convenient phones socket. This socket can be used to monitor the main stereo output signal, PEL signal or 1 to 2 group signals.

The mixing console is also equipped with an AUX SEND socket and a single RETURN socket. AUX communication bus signal can send the signal to the external effector and the monitoring system. The virtual power supply can provide convenience for the connection of the capacitor microphone which requires the external power supply. The monaural input channel is equipped with the XLR microphone input socket and the TRS headphone linear socket. The stereo input channels are equipped with TRS linear input sockets and RCA linear input socket. Because of these wide varieties of sockets, this mixing console can be connected to many different types of sound source devices, such as microphones, linear level devices, stereo output synthesizers and so on.

Features

- With 8/12/16 XLR balanced mono channel inputs, ultra-low noise circuit design, and large dynamic headroom.
- Each channel has 3-band EQ adjustment, MUTE switch, and 60MM fader attenuator.
- With 1 stereo bus output + 2 AUX bus outputs (including FX).
- With 1 return, and 1 RAC output.

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- With built-in 48V phantom power supply.
- With built-in 16 kinds of DSP digital effects.
- Support USB audio playback and USB recording.
- With built-in Bluetooth to play MP3.
- Support LED display of the playback status.
- With 10-band three-color level indicator display.
- Applicable to global power supply voltage of 30W; flexible to use, featuring no noise, good instant response and low power consumption.

Specifications

Model	DMX08	DMX12	DMX16
MAX. Output Level		18dB	
S/N		≥83dB	
THD		≤0.02% @0dB 1KHz	
Frequency Response		20Hz~20KHz±0.5dB	
Channel Crosstalk		＜-75dB @ 1KHz	
Input Impedance MIC		600Ω	
LINE		10KΩ	
Output Impedance		100Ω	
MIC IN		-60dB	
LINE IN		-40dB	
Stereo Input Impedance	10KΩ	/	
Channel Gain	-30dB	/	
3-band EQ	±15dB	/	
HI	12KHz 15dB ±3dB	/	
MID	2.5KHz 15dB ±3dB	/	
LOW	80Hz 15dB ±3dB	/	
Output Power	30W	/	
Power Supply	100V-240V/50Hz	/	
Package Dimensions	440×440×165mm	555×440×165mm	670×440×165mm
Product Dimensions	385×367×100mm	505×367×100mm	620×367×100mm
Gross Weight	5kg	6kg	7.5kg
Net Weight	4kg	5kg	6.2kg

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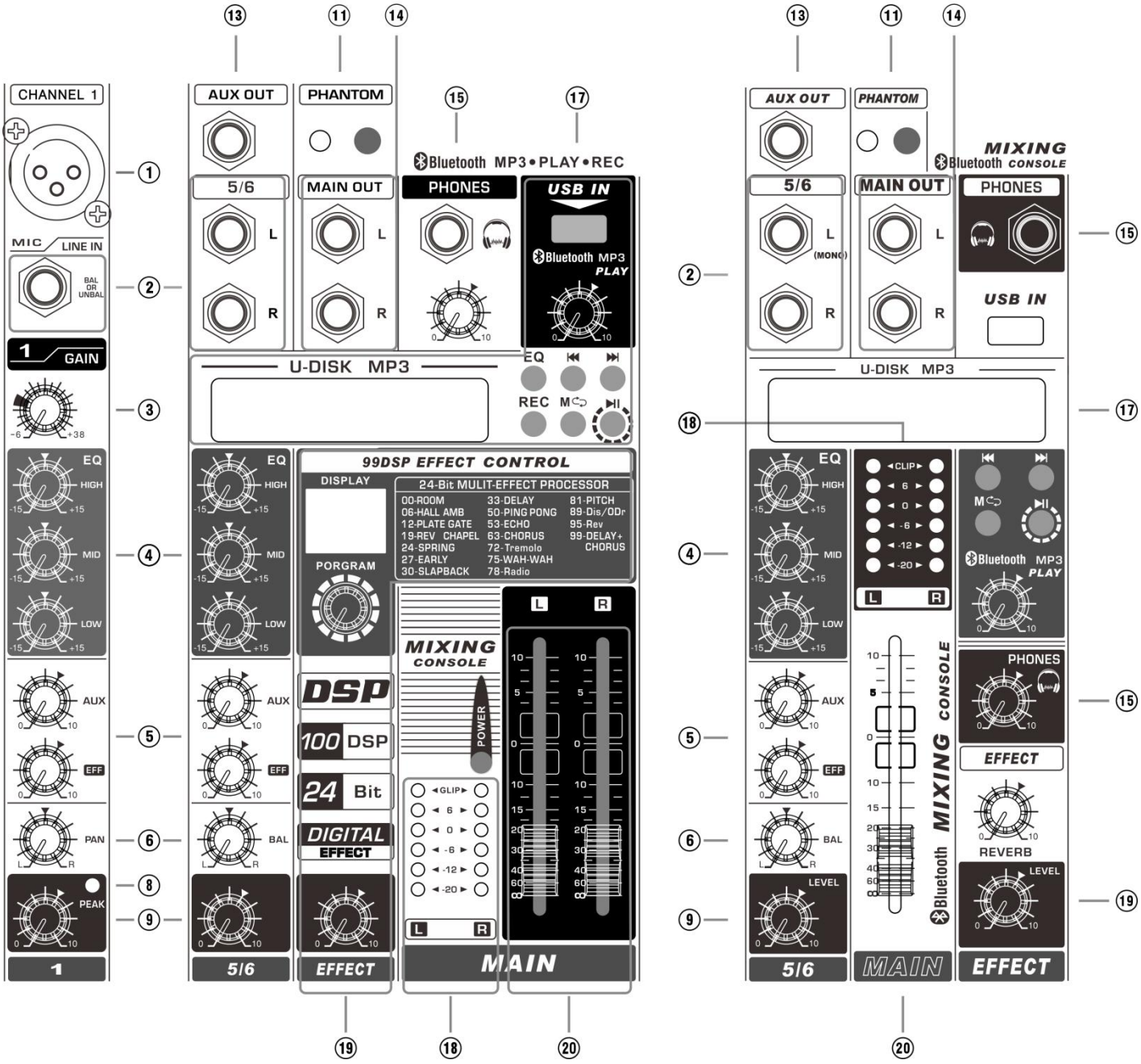
Channel Control Section



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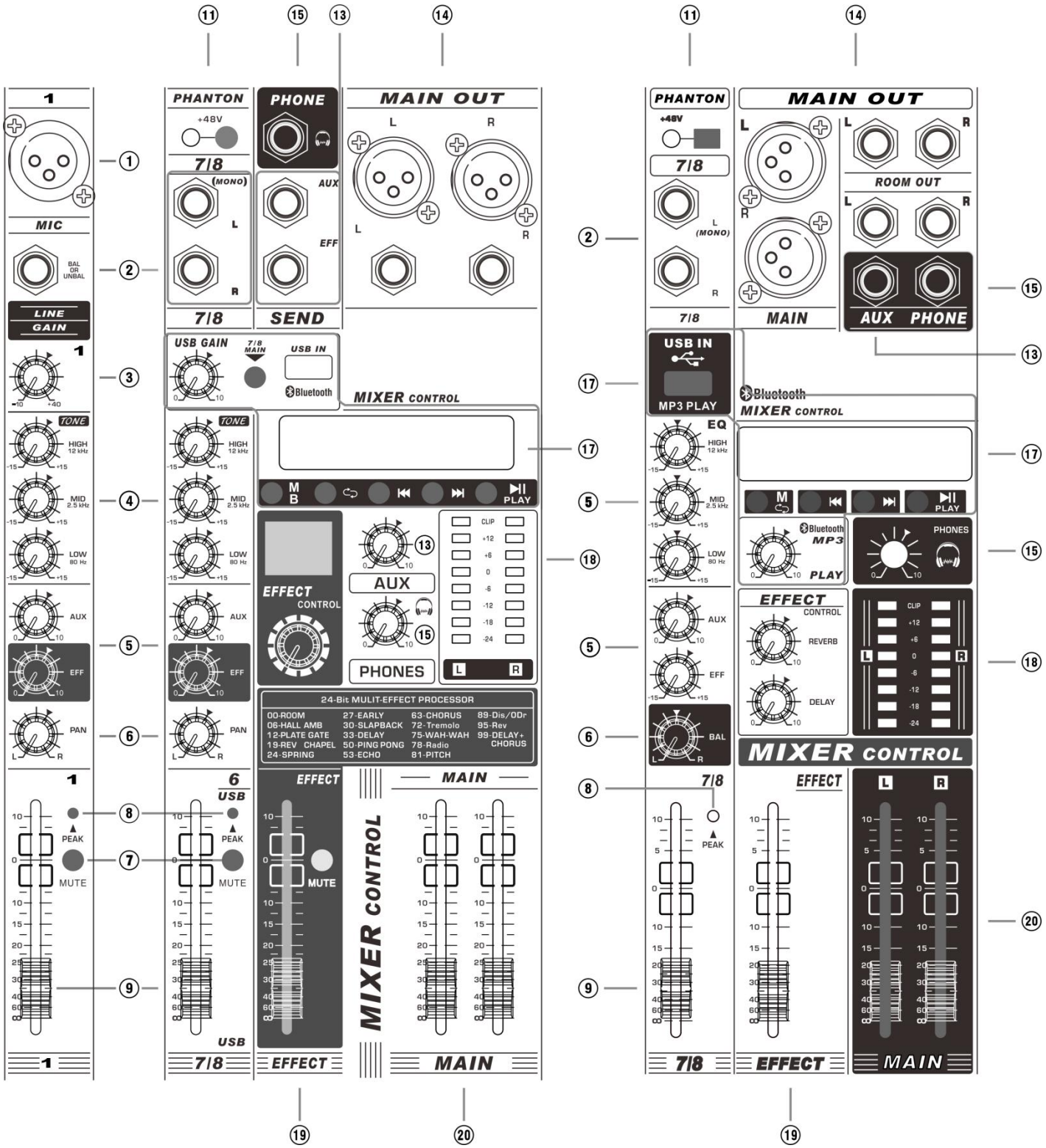

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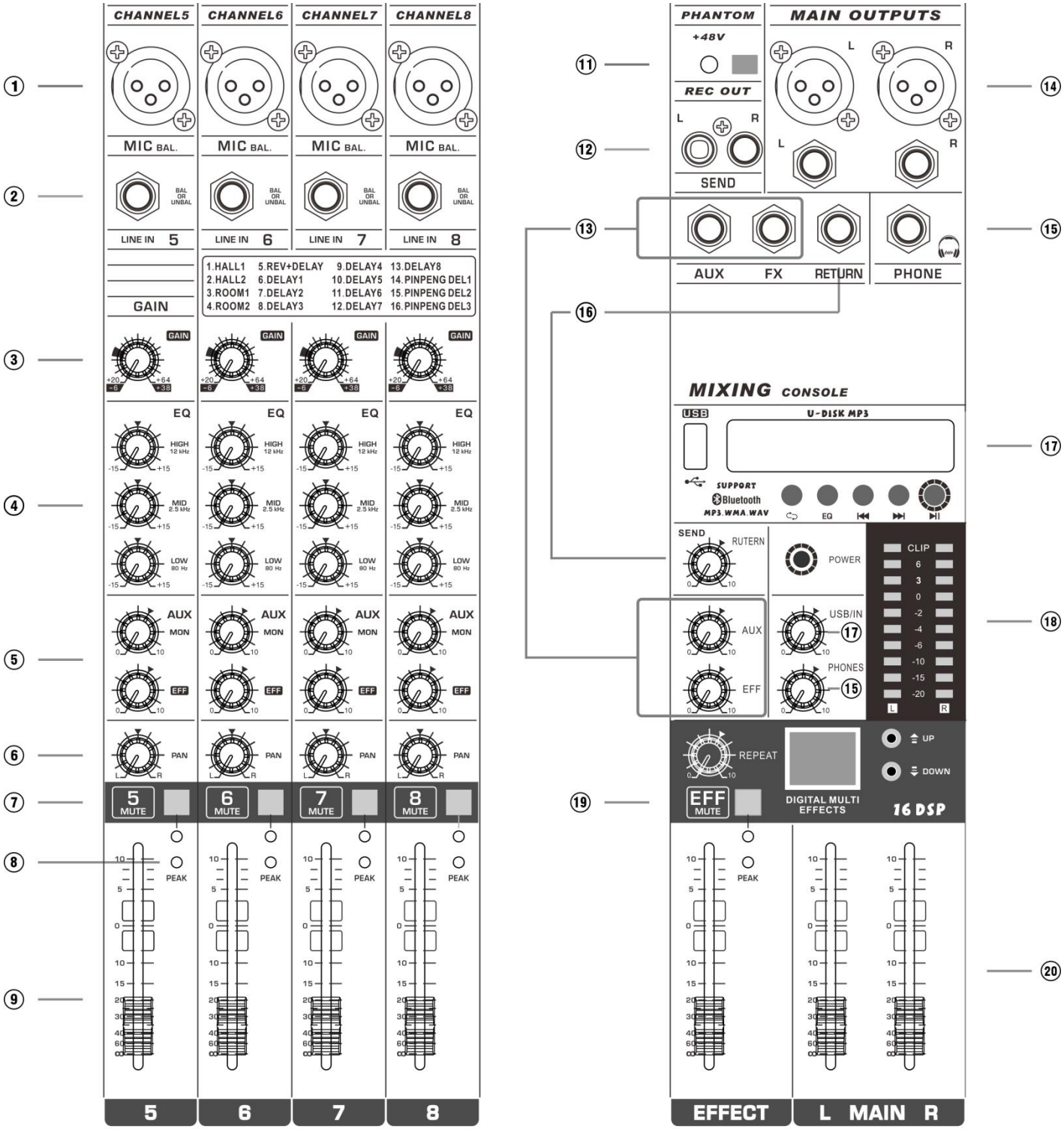

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The monophonic channel input socket

① • MIC socket
These are balanced XLR type input sockets.

② • LINE socket
These are balanced headphone type input sockets.
Balanced or unbalanced headphone plugs can be inserted into these sockets.

Remarks When the input channel can provide both MIC socket and LINE socket at the same time, you can use one of sockets instead of using both of them at the same time. Only one socket can be connected to each tunnel at a time.

• Single Sound Channel Input Socket

These are balanced input socket. The ocket can beinputted with the stereo signal.

③ • GAIN control

Adjust the input signal level. In order to obtain the optimum balance between signal-to-noise ratio and dynamic range, the input signal level peak indicator (8) is adjusted to light only when entering the maximum output level.

④ • Equalizer

This triple frequency band equalizer can adjust the channel in the high, medium, and low frequency bands. If the rotary knob is set in the 0 position, it can generate the flat frequency response. If turning the rotary knob to the right, it will strengthen the corresponding frequency band, instead, if turning to the left, it will weaken this frequency band. The following table shows EQ (equalizer) types s, fundamental frequency, and maximum attenuation/enhancement for the three frequency bands.

Frequency Band	Type	Basic Frequency	Maximum Weakening/ Strengthening
HIGH	Ramp	12 kHz	± 15 dB
MID	Ramp	2.5 kHz	
LOW	Ramp	80 Hz	

⑤ AUX and EFF control

- The AUX rotary knob controls the signal level which is sent by the channel to the AUX1 bus;
- The EFF rotary knob controls the signal level which is sent by this channel to the EFF bus. Please note that the signal level varies with the setting of the channel attenuator.
- Normally these knobs should be set close to 0.

⑥ PAN control

PAN control determines the positioning of the channel signal on the stereo L and R bus.

⑦ MUTE switch

If press this switch, this channel will stop sending signals to all buses (except for PFL listening), all outputs have no signal output, only this channel. At this time, the yellow light will be on, do not press this switch when in normal use.

⑧ PEAK indicator light

The peak level of the post equalizer signal is detected and a red light is illuminated when the level reaches 3 dB below the cutoff level.

⑨ Channel Attenuator

Adjust the output level of the signal input to this channel. Take advantage of these attenuator to adjust volume balance between channels.
The attenuator rotary knob of the unused channel will be adjusted to the lowest position to reduce noise

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⑪ PHANTOM + 48 V switch

This switch can turn on or turn off the virtual power supply. If the switch is pressed (▬), the mixing console will provide power + 48 V for the channel of MIC input socket .When using one or more condenser microphones, please set this switch to ON (▬).

Remarks

When this switch is set to ON, the mixing console will supply DC +48 V power for pin 2 and 3 of all XLR type socket.

⑫ REC OUT (L, R) socket

REC OUT

These are unbalanced RCA pin type output sockets. Through y connecting these sockets to the external recorder, the same signal as the MAIN OUT socket output signal can be recorded.

⑬ SEND Control SEND Socket (AUX/ EFF)

- AUX Control
  Adjust output to the signal level of the SEND AUX socket.
- EFF Control
  Adjust the signal level of EFF bus. This is signals outputted from EFF socket.

⑭ MAIN output part

- MAIN **OUT** (L, R) socket
  These socket outputs are controlled by the MAIN attenuator of the main control section to adjust the level tuning signal, and the stereo (L and R) output in Channel. For example, these sockets can be used to connect to the power amplifier which drives the main speaker.
- XLR socket
  XLR type balanced output socket.
- Headphone socket
  TRS headphone type balanced type output socket.

⑮ PHONES control PHONES socket

- Control the signal level which is outputted to the PHONES socket.
- The headset is connected with the socket. This is a kind of balanced type headset output socket.

⑯ RETURN Control RETURN Socket

- Adjust the signal level which is sent from the RETURN socket to the stereo.
- Signals received by these sockets will be sent to stereo.

These sockets are typically used to receive signals returned from external effectors (reverberations, delays, etc.).

⑰ USB Player

Insert U disk with such MP3, WMA format music files into the player socket, the music player will send a signal to the bus of main sound or marshalling.

⑱ LED Level Lamp

Display the signal level.

The indicator light will be red when the output level reaches the cut-off level.

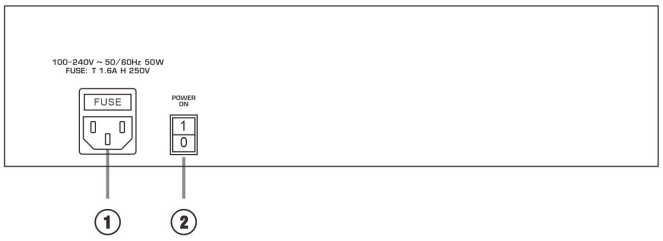
⑲ Digital effect control

- PROGRAM Control
  Select the internal digital effect.
- EFF Switch
  Open or close the internal effector. (■) When open this switch, the internal effectors will work. (▬) When press this switch, the internal effector will stops working and the yellow light will be on.
- REVERB DELAY Control
  Adjust the parameters of the selected effect (depth, speed, etc.).
- EFF Attenuator
  Adjust the signal level of the internal effector

⑳ MAIN attenuator

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

Power input part in the back panel



① AC IN connection socket

power input socket, the power consumption is about 30 w.

② POWER ON switch

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

Please note that when the power switch is on STANDBY, there is still a small electric current in the system. When the mixer is not used for a long time, please make sure to pull out the ac adapter from the electrical outlet.

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