

MIXER

PROFESSIONAL MIXER

USER'S MANUAL

Welcome

Thank you for purchasing this professional mixer! For the best results and the satisfaction from your new unit, please read this manual thoroughly, and retain it for future reference.

Caution!

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

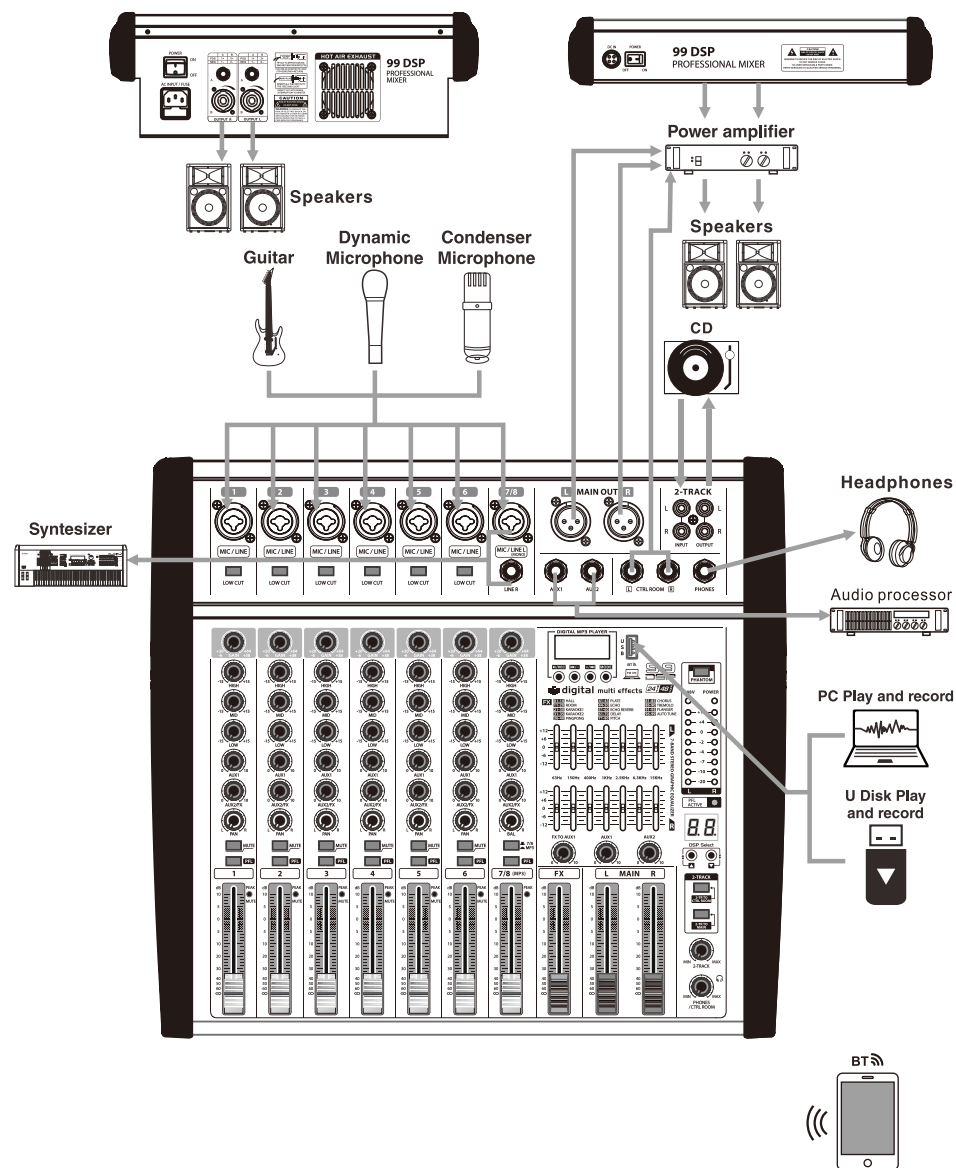
Do not open the top cover (or the rear section), high voltage exist inside the unit dangerously, and no user serviceable parts inside.

Refer servicing to qualified personnel.

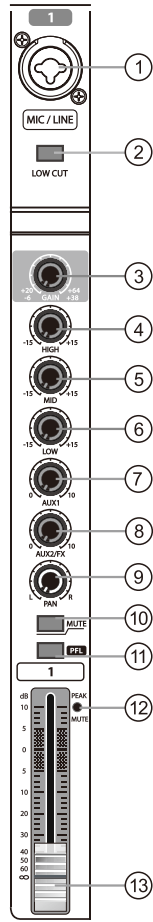
Precautions!

1. Do not use this apparatus near water, if any liquid or water fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
2. Clean only with dry cloth.
3. Do not block any ventilation openings.
4. Be sure that there is enough space around the unit for cooling purposes, do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
5. Operate only on designated power supply which is printing on the unit.
6. Unplug the unit from the wall outlet or set the Master switch to OFF if it is not to be used for several days.
7. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
8. Please noted that all units is properly grounded, for your safety, you should never remove any ground connectors from electronic devices, or render them inoperative.

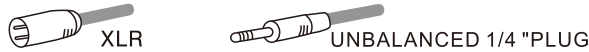
CONNECTION DIAGRAM



INPUT, OUTPUT AND MAIN CONTROL



1.[MIC/LINE] Mono input, connect the microphone, musical instrument or audio device (CD player and so on) to the device. The sockets are supporting both XLR and UNBALANCED 1/4" PLUG.



2.[LOW CUT] Button, press it down to cut down the frequency under 100Hz.

3.[GAIN] Controller, determines the basic volume of each channel, adjust them for the maximum volume performance, when the volume gets too loud, the [PEAK] LED indicator light will keep flashing.

4.[HIGH] Treble tone controller, adjust the controller to enhance or attenuate for 15dB at 12KHz.

5.[MID] Alto tone controller, adjust the controller to enhance or attenuate for 15dB at 2.5KHz.

6.[LOW] Bass tone controller, adjust the controller to enhance or attenuate for 15dB at 80Hz.

7.[AUX1] Controller, adjust the level of input sent to the AUX1 output.

8.[AUX2/FX] Controller, adjust the level of the input signal sent to the AUX2 output, and adjust the level of the signal sent from the channel to the FX bus.

9.[PAN] Controller, determines the position of channel signal within the stereo image. When working with subgroups, you can use the PAN controller to assign the signal to just one output, which gives you additional flexibility in recording situations.

10.[MUTE] Switch, breaks the signal path pre-channel fader, hence muting that channel in the main mix. The aux sends which are set to post-fader are likewise muted for that channel, while the pre-fader monitor paths remain active irrespective of whether the channel is muted or not.

11.[PFL] Switch, used to route the channel signal to the PFL bus (Pre-Fader Listen). This enables you to listen to a channel signal without affecting the main output signal. The signal you hear is taken either before the pan control (PFL, mono).

12.[PEAK] LED indicator light, when the volume of input signal or volume after adjusting equalizer is too high, the LED indicator light will keep flashing, please rotate the [GAIN] Controller counterclockwise to turn down the volume.

13.[CHANNEL] Fader, used to adjust the level of the channel signal, and balance between the various channels.

14.[MAIN OUT] Jacks, deliver the mixer's stereo output. Connect to the active speaker or amplifier.

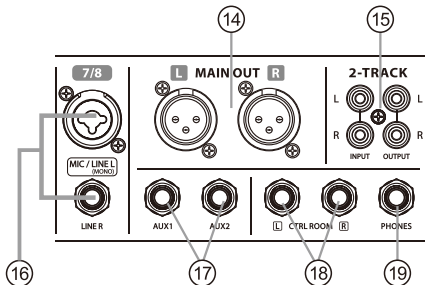
15.[2-TRACK] Input & Output sockets, the TAPE IN jacks (on stereo RCA) allow for the connection of play-back devices such as CD player etc. Use the REC output jacks to connect, for example, a tape deck for recording applications.

16.[STEREO] Input, for connecting to line-level device (e.g. electric keyboard) via 6.35 plug. If only connect to [MIC/LINE] combo jack, the mixer will send out the same mono signal to L and R outputs.

17.[AUX1 & AUX2] Output jacks, they are the sum of the signals sent from each channel. If a particular channels AUX control knob (refer to number 7 & 8) is fully turned down, that channel is not contributing to the AUX output signal.

18.[CTRL ROOM] Output, connect the audio devices in the monitor room to monitor the audio effect.

19.[PHONES] Jack, connect with 6.35 earphones, supports stereo phone plug.



20.[MP3 & USB DISPLAY AND CONTROL]

A. [▶/REC] Button: Under state of U-Disk/Bluetooth/PC playing, short press this button to play or pause, under state of U-Disk playing, long press this button to begin recording, then, long press again to exit the recording and play the recorded music directly.

B. [◀/←] Button: Under state of U-Disk/Bluetooth/PC playing, short press this button to play the last song, long press this button to reduce the volume.

C. [▶/→] Button: Under state of U-Disk/Bluetooth/PC playing, short press this button to play the next song, long press this button to increase the volume.

D. [MODE] Button: Short press this button to convert U-Disk/Bluetooth function, under state of U-Disk playing, long press this button to loop playback.

21.[USB] Port, used by U-Disk or computer software for playing and recording.

22.[PHANTOM] Button, toggles phantom power on and off. When the switch is on, the mixer supplies +48V phantom power to all channels that have XLR mic input jacks. Turn this switch on when using one or more phantom powered condenser microphones.

23.[+48V] Indicator, it will light up when the +48V phantom power is ON.

24.[POWER] Indicator, it will light up when the mixer's power is on.

25.[LEVEL INDICATORS] Show the level of signal's strong.

26.[PFL] Indicator, it will light up when press down any of one PFL button.

27.[DSP SELECT] Buttons, press UP or DOWN button to select from 99 effects.

28. This 7-band equalizer adjusts the sound of the signal send to The MAIN OUT jacks.

29. This is a converting switch, when it is bounced up, the input signal is from the mentioned stereo channel. Press it down, the input signal is from USB.

30.[FX TO AUX1] Controller, adjust the effect value to AUX 1 output.

31.[AUX1 & AUX2] Controllers, adjust the volume of AUX1 and AUX2 outputs.

32. Signal Distribution Switch for 2-TRACK

a. When the "TO CTRL ROOM" switch is pressed down, the input signal of 2-TRACK is distributed to the output of CTRL ROOM to monitor after recording.

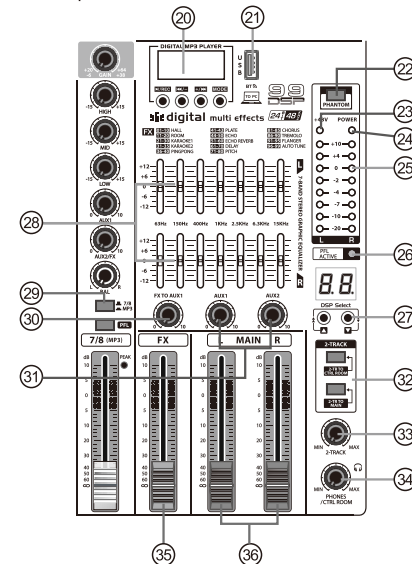
b. When the "TO MAIN" switch is pressed down, the input signal of 2-TRACK is distributed to the MAIN OUT, used as an additional input of tape source, MIDI instruments, or other signal sources that do not require processing.

33.[2-TRACK] Controller, control the volume of 2-TRACK RCA output.

34.[PHONES/CTRL ROOM] Controller, control the volume of earphones and CTRL ROOM outputs.

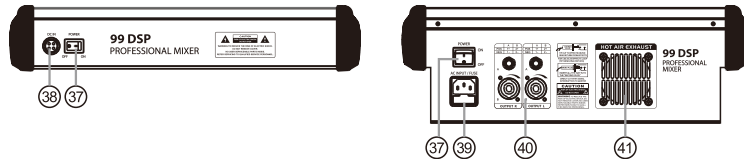
35.[FX] Fader, control the effect input signal level.

36.[MAIN L-R] Fader, control the output level of MAIN OUT L and R.



REAR PANEL

37. **[POWER SWITCH]** Use the power switch to turn on the mixer. The power switch should always be in "OFF" position when you are not connect your unit to the mains. To disconnect the unit from the mains, pull out the main cord plug. When installing the production, ensure the plug is easily accessible.
38. **[DC IN]** Power Input Jack, connect with the external power supply.
39. **[FUSE HOLDER/IEC MAINS RECEPTACLE]** The console is connected to the mains via the cable supplied, which meets the required safety standards. Blown fuses must only be replaced by fuses of the same type and rating. The mains connecting is made via a cable with IEC mains connector.
40. **[AMPLIFIER OUTPUT]** Connect with two 4ohm speakers.
41. **[COOLING FAN]** Cooling the amplifier to avoid the amplifier too hot to be broken.



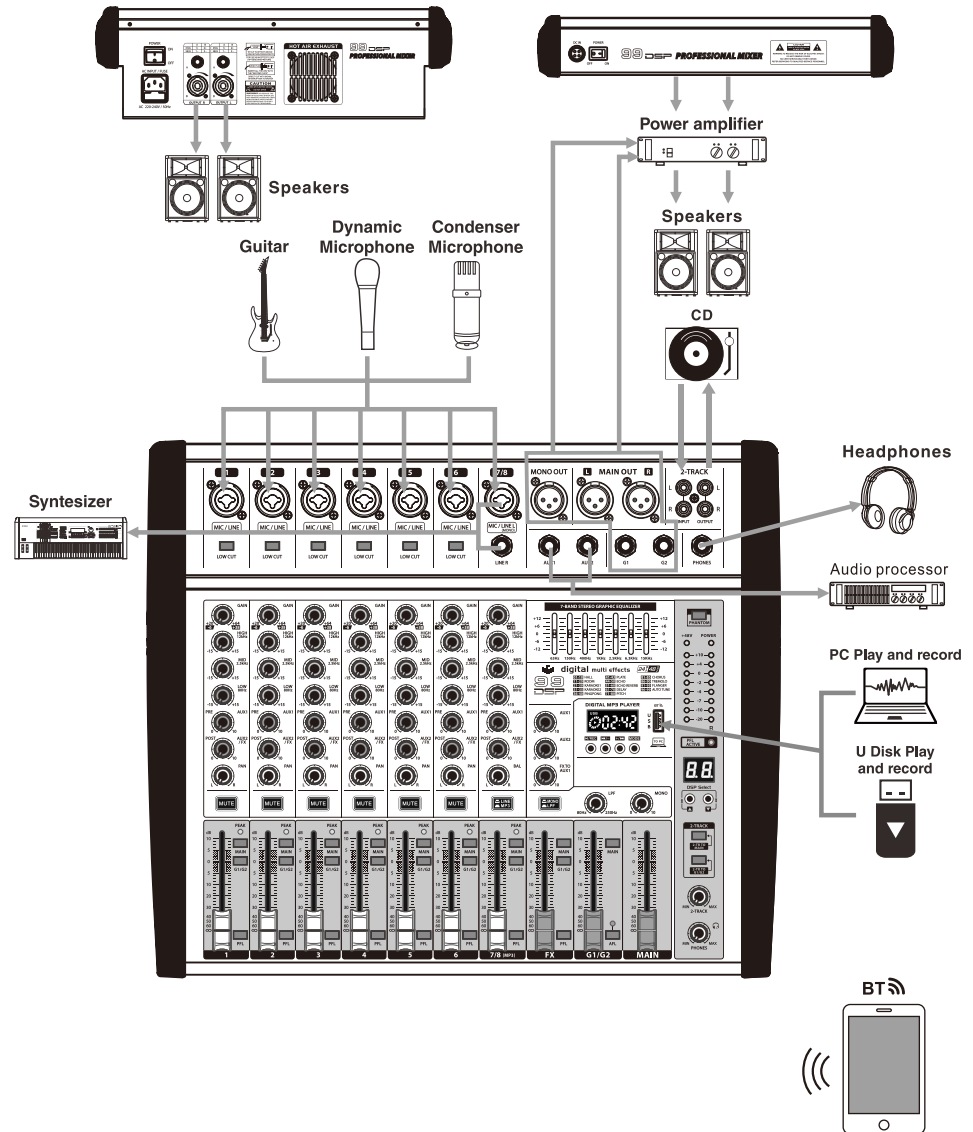
SPECIFICATIONS

		6-CH	8-CH	12-CH	16-CH
Frequency Response		20Hz-20KHz $\pm$ 1dB+4dB μ @1KHz			
Total Harmonic Distortion		<0.5%@+4dB μ (22Hz-22KHz)			
Input Channels	MIC/LINE	5 (Combo Jack)	7 (Combo Jack)	11 (Combo Jack)	15 (Combo Jack)
	STEREO	1 (Combo Jack + 6.35 Jack)	1 (Combo Jack + 6.35 Jack)	1 (Combo Jack + 6.35 Jack)	1 (Combo Jack + 6.35 Jack)
	MP3	1	1	1	1
	USB Sound card	2.0 Type-A	2.0 Type-A	2.0 Type-A	2.0 Type-A
	Bluetooth	1	1	1	1
Output Channels	Main (XLR)	L/R	L/R	L/R	L/R
	Phones (6.35)	1	1	1	1
	CTRL ROOM (6.35)	L/R	L/R	L/R	L/R
Auxiliary	2-TRACK (RCA)	L/R (IN & OUT)	L/R (IN & OUT)	L/R (IN & OUT)	L/R (IN & OUT)
	AUX 1 OUT (6.35)	1	1	1	1
	AUX 2 OUT (6.35)	1	1	1	1
Level Meter		2x8-segment LED meter (+10, +4, 0, -2, -4, -7, -10, -20dB)			
Effects/FX		Digital 99 effects			
Main Control Equalizer		Two 7-Band stereo graphic equalizer			
Phantom Power Voltage		+48V DC			
Power Source		$\pm$ 15V DC +48V DC			
Power Consumption		16W	18W	22W	25W

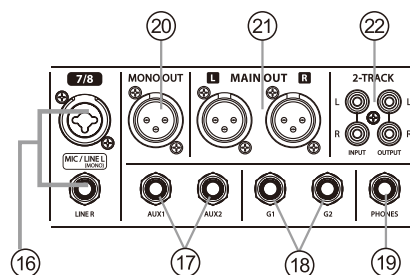
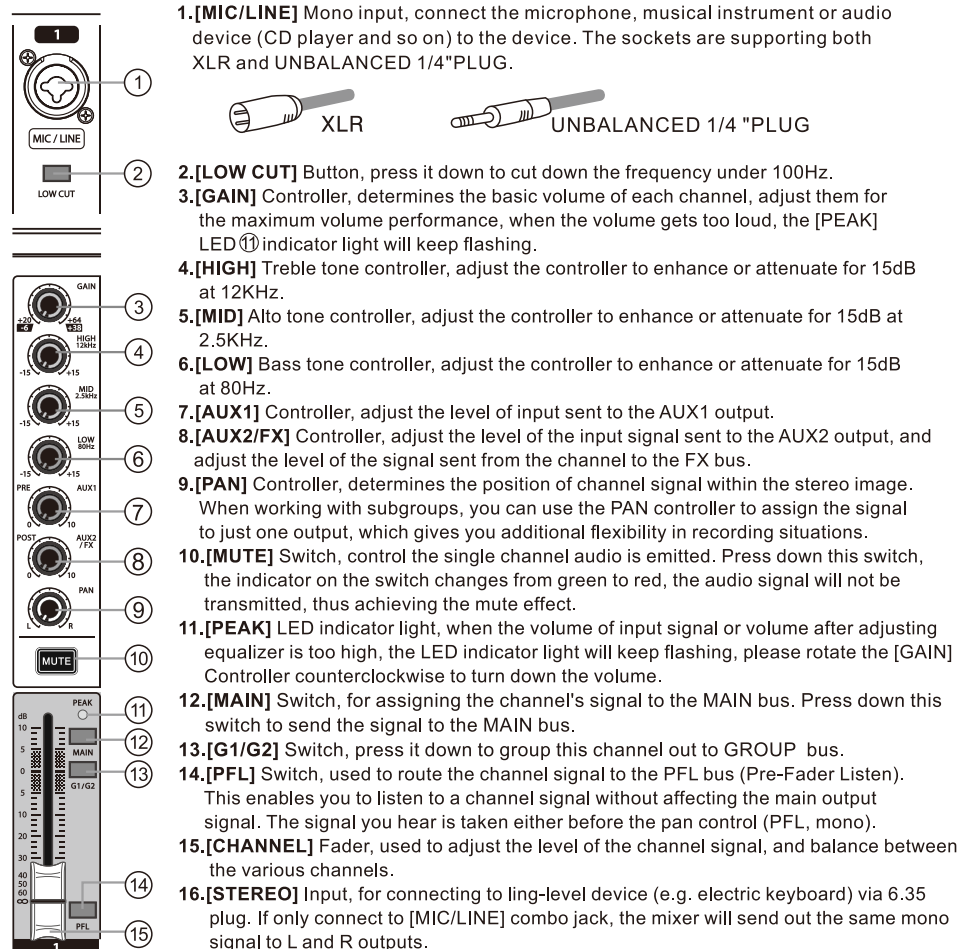
Built-in power amplifier

Power Source	AC 100 - 120V or 220 -240V (50Hz or 60Hz)
Output Power	2X150W or 2X350W or 2X550W (4 Ω)

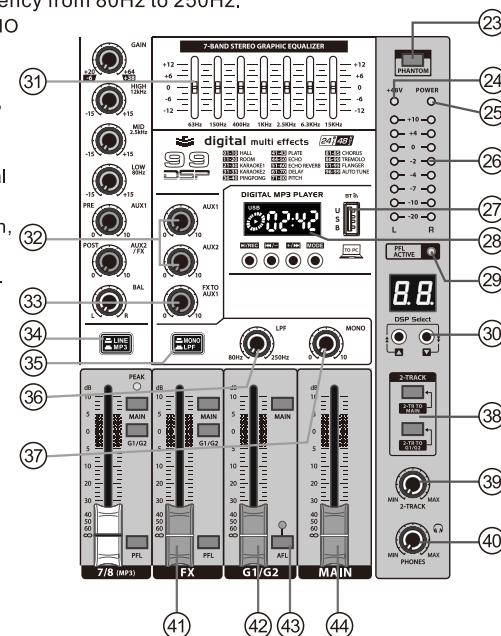
CONNECTION DIAGRAM



INPUT, OUTPUT AND MAIN CONTROL

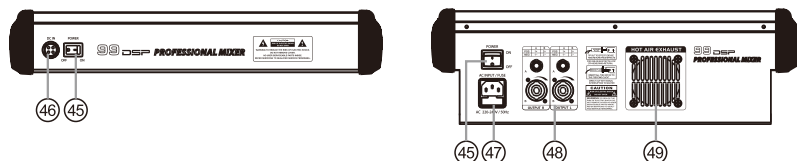


21. **[MAIN OUT]** Jacks, deliver the mixer's stereo output. Connect to the active speaker or amplifier.
22. **[2-TRACK]** Input & Output sockets, the TAPE IN jacks (on stereo RCA) allow for the connection of play-back devices such as CD player etc. Use the REC output jacks to connect, for example, a tape deck for recording applications.
23. **[PHANTOM]** Button, toggles phantom power on and off. When the switch is on, the mixer supplies +48V phantom power to all channels that have XLR mic input jacks. Turn this switch on when using one or more phantom powered condenser microphones.
24. **[+48V]** Indicator, it will light up when the +48V phantom power is ON.
25. **[POWER]** Indicator, it will light up when the mixer's power is on.
26. **[LEVEL INDICATORS]** Show the level of signal's strong.
27. **[USB]** Port, used by U-Disk or computer software for playing and recording.
28. **[MP3 & USB DISPLAY AND CONTROL]**
- [PLAY/REC]** Button: Under state of U-Disk/Bluetooth/PC playing, short press this button to play or pause, under state of U-Disk playing, long press this button to begin recording, then, long press again to exit the recording and play the recorded music directly.
 - [REWIND]** Button: Under state of U-Disk/Bluetooth/PC playing, short press this button to play the last song, long press this button to reduce the volume.
 - [PLAY/PAUSE]** Button: Under state of U-Disk/Bluetooth/PC playing, short press this button to play the next song, long press this button to increase the volume.
 - [MODE]** Button: Short press this button to convert U-Disk/Bluetooth function, under state of U-Disk playing, long press this button to loop playback.
29. **[PFL]** Indicator, it will light up when press down any of one PFL button.
30. **[DSP SELECT]** Buttons, press UP or DOWN button to select from 99 effects.
31. This 7-band equalizer adjusts the sound of the signal send to The MAIN OUT jacks.
32. **[AUX1 & AUX2]** Controllers, adjust the volume of AUX1 and AUX2 outputs.
33. **[FX TO AUX1]** Controller, adjust the effect value to AUX 1 output.
34. **[LINE/MP3]** This is a converting switch with a light on, when it is bounced up (light in green), the input signal is from the stereo channel. Press it down (light in white), the input signal is from MP3.
35. **[MONO LPF]** Button with a light on, use with MONO OUT, connect with subwoofer when press down this button (light in white). When the button is bounce up (light in green), the MONO OUT is a normal auxiliary output.
36. **[LPF]** Controller, adjusts the low pass frequency from 80Hz to 250Hz.
37. **[MONO]** Controller, control the volume of MONO output.
38. **Signal Distribution Switch for 2-TRACK**
- When the "TO MAIN" switch is pressed down, the input signal of 2-TRACK is distributed to the MAIN OUT, used as an additional input of tape source, MIDI instruments, or other signal sources that do not require processing.
 - When the "TO G1/G2" switch is pressed down, the input signal of 2-TRACK is distributed to G1/G2 buses for further processing or output.
39. **[2-TRACK]** Controller, control the volume of 2-TRACK RCA outputs.
40. **[PHONES]** Controller, control the volume of earphones outputs.
41. **[FX]** Fader, control effect input signal level.
42. **[G1/G2]** Fader, control the volume level of G1/G2 outputs.
43. **[AFL]** Button for G1/G2, press it down to monitor the G1/G2 outputs after each channel adjustment.
44. **[MAIN]** Fader, control the output level of MAIN OUT L and R.



REAR PANEL

- 45.[POWER SWITCH]** Use the power switch to turn on the mixer. The power switch should always be in "OFF" position when you are not connect your unit to the mains. To disconnect the unit from the mains, pull out the main cord plug. When installing the production, ensure the plug is easily accessible.
- 46.[DC IN]** Power Input Jack, connect with the external power supply.
- 47.[FUSE HOLDER/IEC MAINS RECEPTACLE]** The console is connected to the mains via the cable supplied, which meets the required safety standards. Blown fuses must only be replaced by fuses of the same type and rating. The mains connecting is made via a cable with IEC mains connector.
- 48.[AMPLIFIER OUTPUT]** Connect with two 4ohm speakers.
- 49.[COOLING FAN]** Cooling the amplifier to avoid the amplifier too hot to be broken.



SPECIFICATIONS

		6-CH	8-CH	12-CH	16-CH
Frequency Response		20Hz-20KHz ± 1dB+4dBμ@1KHz			
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	STEREO	1 (Combo Jack + 6.35 Jack)	1 (Combo Jack + 6.35 Jack)	1 (Combo Jack + 6.35 Jack)	1 (Combo Jack + 6.35 Jack)
	MP3	1	1	1	1
	USB Sound card	2.0 Type-A	2.0 Type-A	2.0 Type-A	2.0 Type-A
	Bluetooth	1	1	1	1
Output Channels	Main (XLR)	L/R	L/R	L/R	L/R
	Phones (6.35)	1	1	1	1
	MONO/Subwoofer (XLR)	1	1	1	1
Auxiliary	GROUP (6.35)	2	2	2	2
	2-TRACK (RCA)	L/R (IN & OUT)	L/R (IN & OUT)	L/R (IN & OUT)	L/R (IN & OUT)
	AUX 1 OUT (6.35)	1	1	1	1
	AUX 2 OUT (6.35)	1	1	1	1
Level Meter		2x8-segment LED meter (+10, +4, 0, -2, -4, -7, -10, -20dB)			
Effects/FX		Digital 99 effects			
Main Control Equalizer		7-Band stereo graphic equalizer			
Phantom Power Voltage		+48V DC			
Power Source		±15V DC +48V DC			
Power Consumption		16W	18W	22W	25W

Built-in power amplifier

Power Source	AC 100 - 120V or 220 -240V (50Hz or 60Hz)
Output Power	2X150W or 2X350W or 2X550W (4Ω)

TROUBLESHOOTING

Should problems occur, they are in many cases, due to simple operation mistakes or the like. On the basis of the following checks, you will be able to rectify a number of problems yourself without difficulty. If the problem cannot be remedied after the following checks, please consult with your dealer.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Power can not be turned on	Power Supply cord was not connected or was not connected securely.	Securely connect the power supply cord to the mixer DC input and/or the AC power outlet.
	The power supply cord is defective.	Replace the power supply cord.
	The AC power outlet has no power.	Connect the power supply to an AC power outlet with proper power.
	The AC power source is from an AC power extension cord and the power switch of the extension cord is not turned on.	Turn on the power switch of the AC power extension cord.
No output sound	The power is off.	Turn on the power.
	The stereo level fader was turned to minimum.	Adjust the stereo level fader to have an optimal output level.
	The main output audio cable is missing or defective.	Connect, repair or replace the audio cables.
One channel no sound	The gain control knob to the channel was turned to minimum.	Adjust the gain control knob to that channel to have an optimal output level.
	The level control knob to the microphone channel was turned to minimum.	Adjust the level control knob to that channel to have an optimal output level.
Microphone no sound	No phantom power to the condenser microphone	Turn on the phantom power.
	The gain control knob to the microphone channel was turned to minimum.	Adjust the gain control knob to that microphone channel to have an optimal microphone output level.
	The level control knob to the microphone channel was turned to minimum.	Adjust the level control knob to that microphone channel to have an optimal microphone output level.
Distorted sound	The amplitude of the input signal is over the threshold.	Adjust the gain control knob to lower the input gain.
	The amplitude of the main output signal is over the threshold of the connected amplifiers or active speakers.	Adjust the stereo level fader to lower the main output level.