

PROFESSIONAL MIXER



Instruction 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.

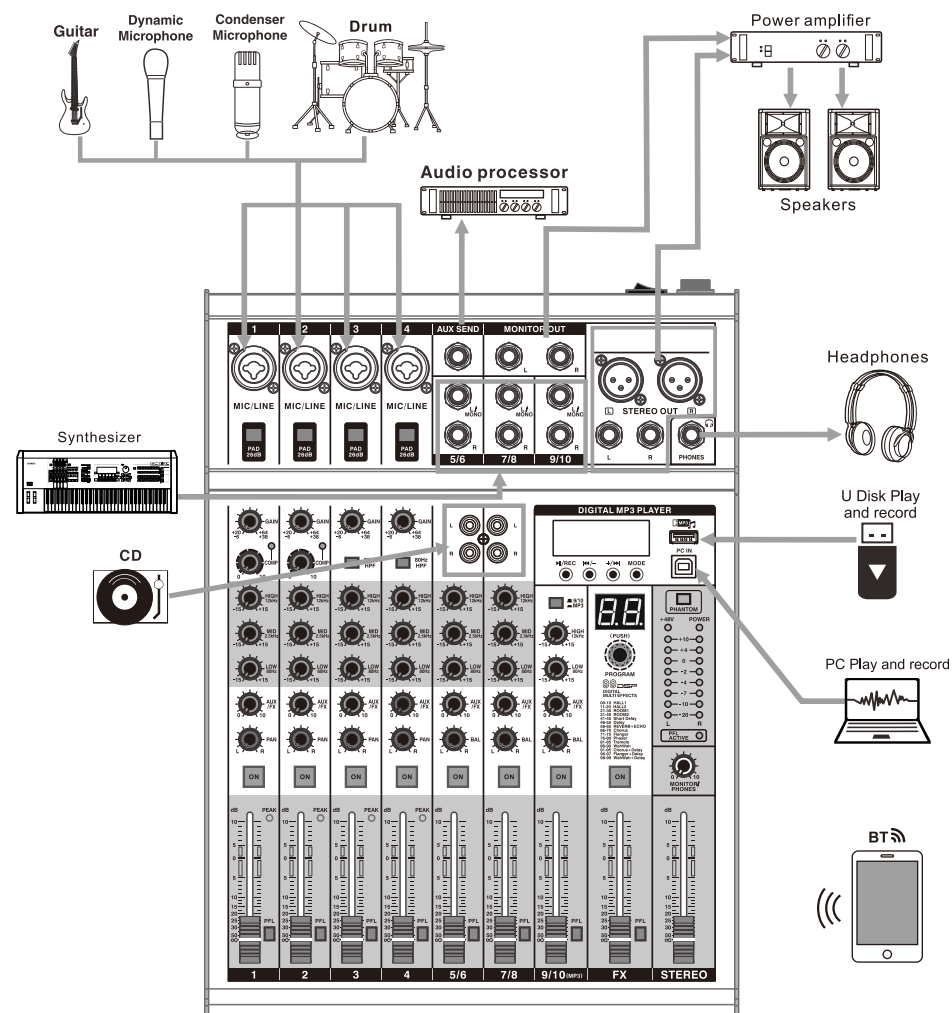
Precautions!

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 gounded connectors from electronic devices, or render them inoperatively.

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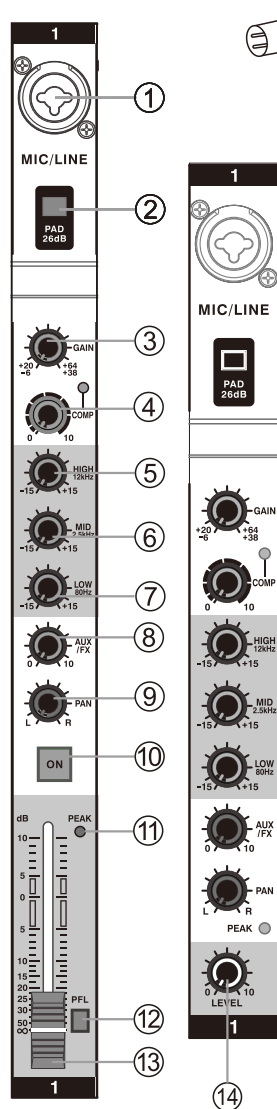
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Connection diagram



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.[PAD] Button, it will attenuate the sound input to the device when turning on this switch. You can turn on the switch if you hear the distortion or [PEAK] LED indicator light is on.

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.[COMP] Controller and indicator, adjust the controller to control the dynamic range of the audio signal. It can automatically reduce the gain of the signal when it exceeds the set threshold, thereby limiting the signal's peaks and stabilizing the dynamic range of the audio signal. When the COMP indicator light is on, it indicates that the compressor is actively processing the signal.

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

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

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

8.[AUX/FX] Controller, adjust the level of the input signal sent to the AUX 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.

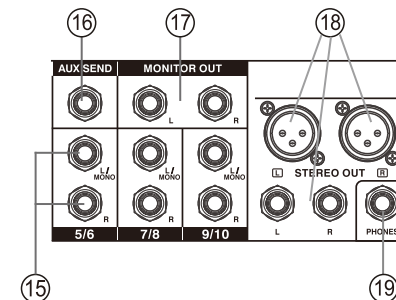
10.[ON] Switch, press it down (light is on), the signal of the corresponding channel is sent to the bus. When the switch bounces back (light is off), the signal of corresponding channel will not be sent to the bus, except for the PFL signal being monitored through the PHONES output.

11.[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.

12.[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).

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

14. [LEVEL] Controller, used to adjust the level of the channel signal, and balance between the various channels.



15.[UNBAL] Stereo input, for connecting to line-level device (e.g. electric keyboard) via 6.35 plugs, if only connect to L (MONO) jack, the mixer will send out the same mono signal to L and R outputs.

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

17.[MONITOR OUT] Output, connect the audio devices in the monitor room to monitor the audio effect.

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

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

20.[HPF] Button, press it down to cut off frequency below 80Hz.

21.[UNBAL] Stereo input, for connecting to line-level device (e.g. TAPE and CD) via RCA plugs.

22. 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 MP3.

23.[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.

24.[MP3] Port, used for playing and recording with a U-Disk.

25.[USB 2.0] Terminal, for data transferring and recording, supports stereo play & record with 24 Bit, 48kHz sampling rate.

26.[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.

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

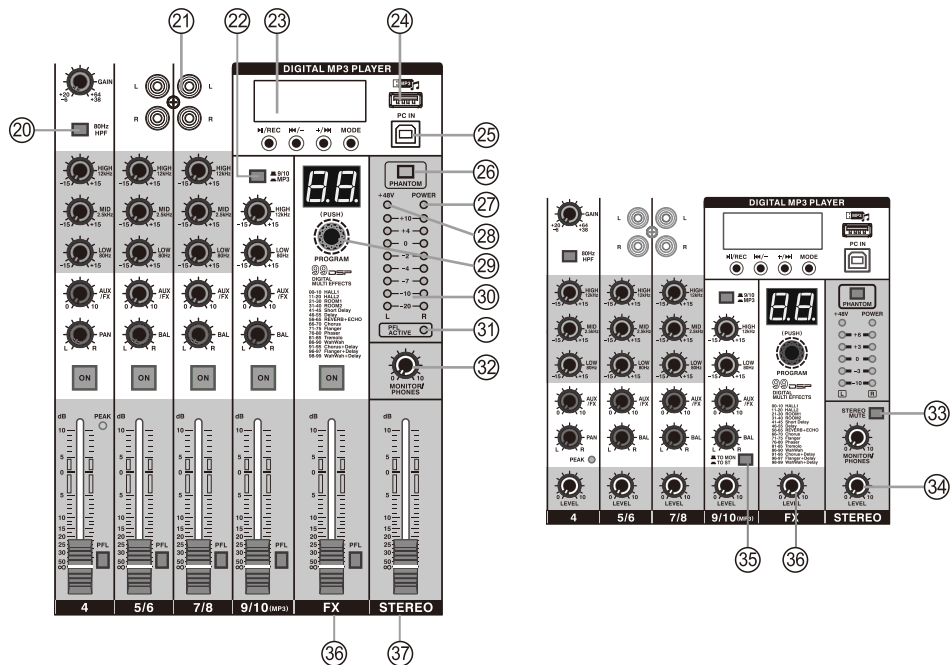
28.[+48V] Indicator, it will light up when the +48V phantom power is ON.

29.[PROGRAM] Controller, select from 99 preset effects by turning this controller, the selected effect number will show on display and flash, push the controller to confirm for using. Or, if without pushing to confirm, the effect number will flash for around 5 seconds and exit the setting state for using directly.

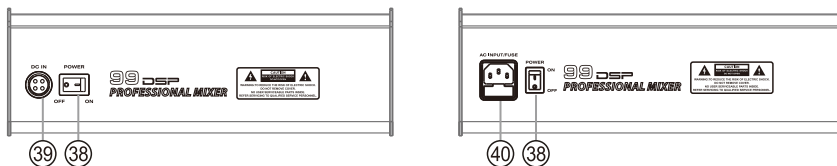
30.[LEVEL INDICATORS] Show the level of signal's strong.

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

32.[MONITOR/PHONES] Controller, control the volume of earphones and MONITOR outputs.



- 33.[STEREO MUTE]** Switch, when it is pressed, the sound output from the MONITOR OUT jacks or PHONES jack to the stereo bus will be muted. In this state, setting the [TO MONO/TO ST] switch of channels 9/10 to MON state allows you to only hear the audio input from channels 9/10.
- 34. [STEREO]** Controller, control the output level of STEREO OUT.
- 35. [TO MON/TO ST]** Switch, used to select and route the input signals from channels 9/10 to either the MONITOR OUT or STEREO OUT.
- 36.[FX]** Fader and controller, control the effect input signal level.
- 37.[STEREO]** Fader, control the output level of STEREO OUT.



- 38.[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.
- 39.[DC IN]** Power Input Jack, connect with the external power supply.
- 40.[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.

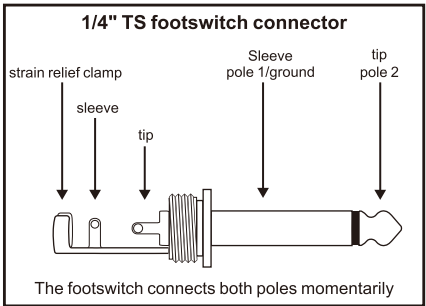
Specifications

		10-CH	10-CH (Fader version)	14-CH (Fader version)
Frequency Response		20Hz-20KHz $\pm$ 1dB+4dBu@1KHz		
Total Harmonic Distortion		<0.5%@+4dBu (22Hz-22KHz)		
Input Channels	MIC/LINE	4 (Combo jack)	4 (Combo jack)	8 (Combo jack)
	STEREO (6.35 Jack)	3 (5/6, 7/8, 9/10)	3 (5/6, 7/8, 9/10)	3 (9/10, 11/12, 13/14)
	STEREO (RCA Jack)	2 (5/6, 7/8)	2 (5/6, 7/8)	2 (9/10, 11/12)
	MP3	1 (Type-A)	1 (Type-A)	1 (Type-A)
	USB Sound card	1 (Type-B)	1 (Type-B)	1 (Type-B)
	Bluetooth	1	1	1
Output Channels	STEREO OUT	L/R (XLR + 6.35)	L/R (XLR + 6.35)	L/R (XLR + 6.35)
	PHONES	1 (6.35 Jack)	1 (6.35 Jack)	1 (6.35 Jack)
	MONITOR OUT	L/R (6.35 Jack)	L/R (6.35 Jack)	L/R (6.35 Jack)
Auxiliary	AUX SEND	1 (6.35 Jack)	1 (6.35 Jack)	1 (6.35 Jack)
Level Meter		2X5-segment LED meter (+6, +3, 0, -3, -10dB)		2x8-segment LED meter (+10, +4, 0, -2, -4, -7, -10, -20dB)
Effects		Digital 99 effects		
Phantom Power Voltage		+48V DC		
Power Source		DC $\pm$ 15V, +48V (Can be modified to AC 100-240V 50-60Hz)		
Power Consumption		15W	16W	20W

Installation

Cable connections

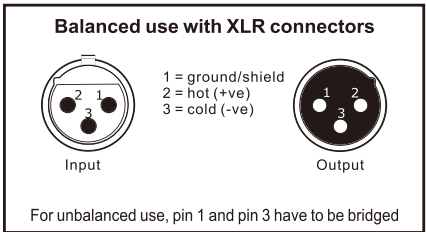
You will need a large number of cables for the various connections of the console. The illustrations below show the wiring of these cables. Be sure to use only high-grade cables.



Foot switch connector

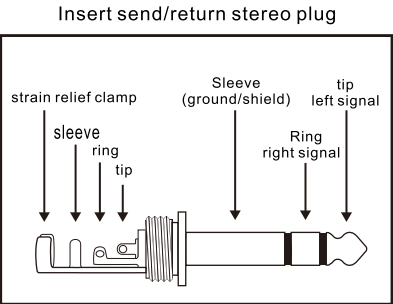
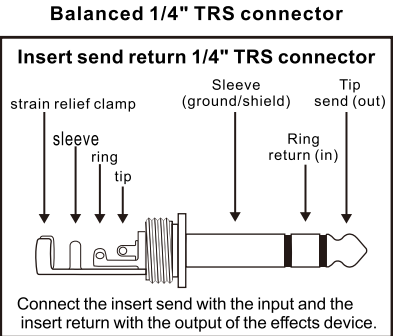
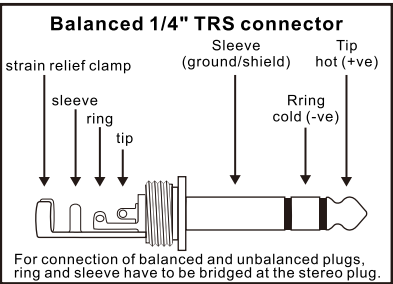
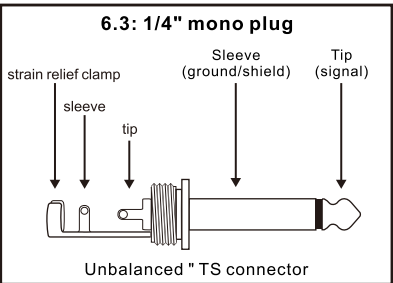
Audio connections

Please use commercial RCA cables to wire the 2-track inputs and outputs. You can, of course, also connect unbalanced devices to the balanced input/outputs. Use either mono plugs, or use stereo plugs to link the ring and shaft (or pins 1 & 3 in the case of XLR connectors).



XLR connections

Caution! You must never use unbalanced XLR connectors (PIN 1 and 3 connected) at the MIC input jacks if you want to use the phantom power supply.



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.

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.