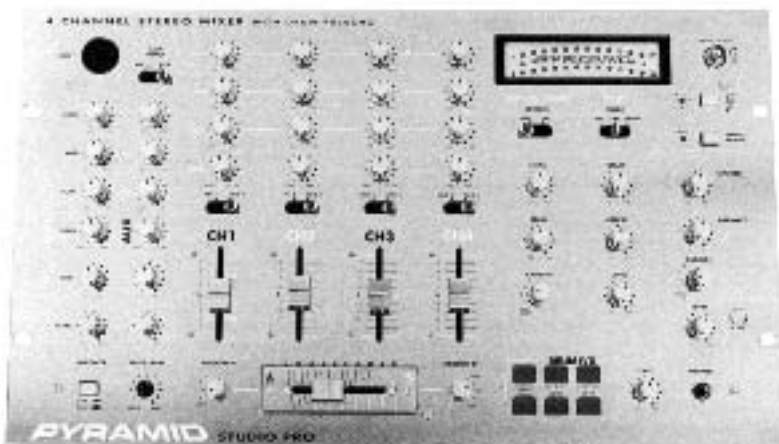


PYRAMID[®] **Studio** **PRO**

OWNER'S MANUAL



MODEL PMR-9600

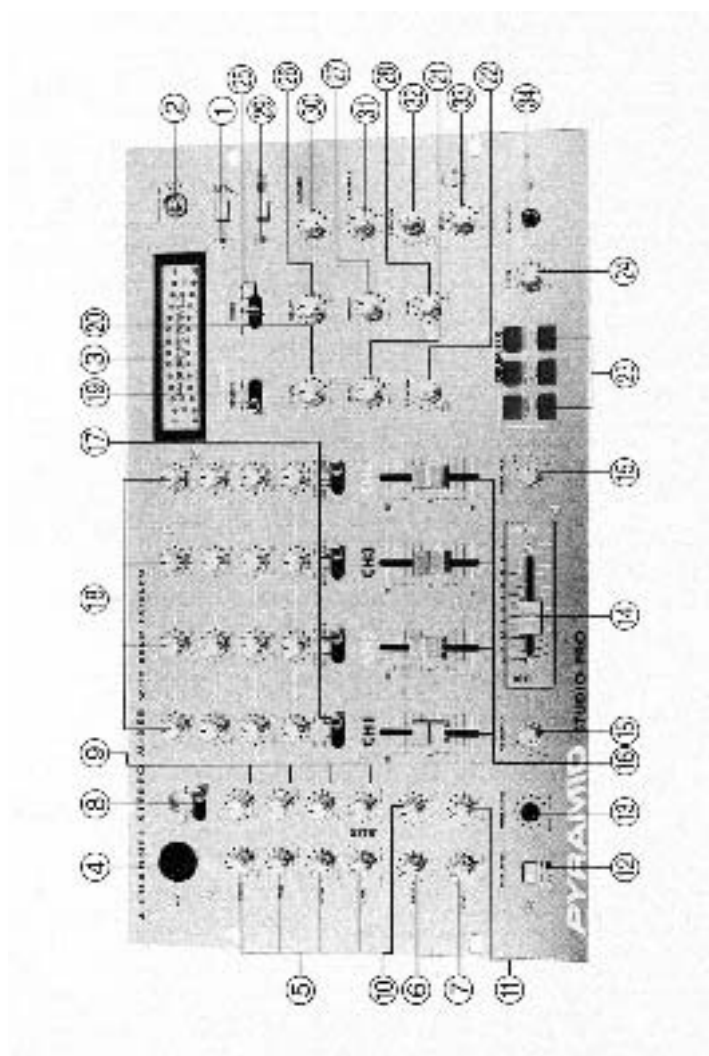
INTRODUCTION

Thank you for purchasing the PYRAMID Professional DJ Mixer. The Mixer has been designed as a sophisticated control center, perfect for mixing sound sources from multiple playback sources or from live performances, it offer you the best features to adjust sound levels, create the special sound performance and tailor the sound to compensate for environmental conditions or for personal preference.

FEATURES

- 1.Power On/off
- 2.BNC Lamp Adaptor
- 3.Dual LED Meter
- 4.DJ MIC XLR input
- 5.DJ MIC Rotary Control
High, Mid, Low, and Gain
- 6.DJ MIC Pan Control
- 7.DJ MIC Level Control
- 8.AUX Input Selector MIC/LINE
- 9.AUX Rotary Control
High, Mid, Low, and Gain
- 10.AUX Pan Control
- 11.AUX Level Control
- 12.DJ MIC Talkover Switch
- 13.DJ MIC Mute Level Control
- 14.Dual Railed Removeable Crossfader
- 15.Crossfader Assign Switch
- 16.Channel Volume Control
- 17.Input Device Selector
CH 1: PHONO 1 / LINE 1
CH 2: PHONO 2 / LINE 2
CH 3: LINE 3 / LINE 4
CH 4: LINE 5 / LINE 6
- 18.Channel Rotary Control
High, Mid, Low, and Gain
- 19.RECEIVE on/off Selector
- 20.RECEIVE Level Control
- 21.SEND Level Control
- 22.SEND Assign Switch
- 23.Drum Effects Control
- 24.Drum Level Control
- 25.Echo On/off Switch
- 26.Echo Delay Control
- 27.Echo Repeat Control
- 28.Echo Level Control
- 29.MONO/STEREO Switch
- 30.Master Level Control
- 31.Master Balance Control
- 32.CUE Assign Switch
- 33.CUE Level Control
- 34.1/4-inch Phone Jack

INTRODUCTION



FUNCTIONS

1. **POWER ON/OFF**
Push in to turn power on, push again to turn power off.
2. **BNC LAMP ADAPTOR**
Let you connect a 12V/3W max lamp to light up the unit.
3. **DUAL LED METER**
Indicate the output signal level of the master channel.
4. **DJ MIC XLR INPUT**
For connecting balanced or unbalanced, low impedance XLR type microphone.
5. **DJ MIC ROTARY CONTROL, TONE & GAIN**
 - (1) **TONE:** Let you adjust the high, mid, and low to improve the sound of DJ MIC channel.
 - (2) **GAIN:** Let you adjust the input level of DJ MIC channel.
6. **DJ MIC PAN CONTROL**
Let you assign the output of DJ mic that to be played at/or between L and R channel output.
7. **DJ MIC LEVEL CONTROL**
For a blending of voice and music, adjust the **MIC LEVEL** to increase or decrease the microphone level without affecting the main volume inputs.
8. **AUX INPUT SELECTOR, MIC/LINE**
For your selection between an additional mic or an additional line input.
9. **AUX ROTARY CONTROL, TONE & GAIN**
 - (1) **TONE:** Let you adjust the high, mid, and low to improve the sound of AUX channel.
 - (2) **GAIN:** Let you adjust the input level of AUX channel.
10. **AUX PAN CONTROL**
Let you assign the output of AUX that to be played at/or between L and R channel output.
11. **AUX LEVEL CONTROL**
Let you adjust the **AUX LEVEL** to increase or decrease without affecting the main volume inputs.
12. **DJ MIC TALKOVER SWITCH**
Allows you to lowers the sound of the input sources so you can talk over them using the DJ's microphone.
13. **DJ MIC MUTE LEVEL CONTROL**
Let you adjust the level of the input sources that been attenuated.

FUNCTIONS

14. DUAL RAILED REMOVEABLE CROSSFADER

Let you smoothly switch between two input sources.

15. CROSSFADER ASSIGN SWITCH

Let you quickly and smoothly switch between two assigned sources of each playing channel.

16. CHANNEL VOLUME CONTROL

Slide upwards to increase volume of the channel, downwards to decrease.

17. INPUT DEVICE SELECTOR

Let you select the input source of each playing channel.

18. CHANNEL ROTARY CONTROL, TONE & GAIN

(1) TONE: Let you adjust the high, mid, and low to improve the sound of each channel.

(2) GAIN: Let you adjust the input level of each channel.

19. RECEIVE ON/OFF SELECTOR

Set the selector to on, to receive the audio signal that being processed back to mixers. It is also features as an additional line level input which activated by RECEIVE ON/OFF switch.

20. RECEIVE LEVEL CONTROL

Let you adjust the input level of the audio signal that being received back.

21. SEND LEVEL CONTROL

Let you adjust the output level of the selected audio signal that sent to the sound effect devices.

22. SEND ASSIGN SWITCH

Set the selector to MIC/AUX, CH 1, CH 2, CH 3, OR CH 4 to select the audio signal you want to improve through the other sound effect devices, such as an echo reverb or a digital sampler processor.

23. DRUM EFFECTS CONTROL

Let you create the special drum sound performance from the six pre-programmed drum effects.

24. DRUM LEVEL CONTROL

Let you adjust the volume of the drum sound effects.

25. ECHO ON/OFF SWITCH

Set the switch to ON to activate the echo mode.

26. ECHO DELAY CONTROL

Let you adjust the delay time of echo.

FUNCTIONS

27.ECHO REPEAT CONTROL

Let you control the length of time a tone is repeated.

28.ECHO LEVEL CONTROL

Let you control the output level of the echo effect.

29.MONO/STEREO SWITCH

Let you select the MASTER output at mono or stereo mode.

30.MASTER LEVEL CONTROL

Let you adjust the mixer's overall volume level.

31.MASTER BALANCE CONTROL

Let you control the balance of MASTER output between L and R speakers.

32.CUE ASSIGN SWITCH

Let you select the channel where the desired audio input source is located, so you can monitor and prepare it before mixing it.

33.CUE LEVEL CONTROL

Let you adjust the headphone's volume level.

34.1/4-INCH PHONE JACK

Let you connect the microphone with 1/4-inch plug.

AUDIO CONNECTION

1. CONNECTING INPUT

A. MICROPHONE INPUT

a. DJ MIC

Connect a balanced, low impedance (600-ohm) XLR type microphone to the XLR receptacles on the upper left corner of the mixer's front panel.

b. AUX MIC

Connect a high quality, low impedance (600-ohm) microphone with a 1/4-inch plug to 1/4-inch jack on the lower left corner of the mixer's back panel.

Set the AUX input selector to MIC to activate the mic input.

B. LOW LEVEL AUDIO SOURCE INPUT

Connect up to two low-level audio sources (such as magnetic-cartridge turntables into PHONO 1 and PHONO 2.

NOTE: If you connect a turntable with a magnetic cartridge, connect its ground wire (usually black or green) to GND.

C. HIGH LEVEL AUDIO SOURCE INPUT

Connect up to six high-level audio sources (such as a tuner, cassette tape deck, CD player, camcorder, or VCR) to LINE 1, LINE 2, LINE 3, LINE 4, LINE 5, and LINE 6.

D. CAUTION: Do not connect an audio source with a HIGH LEVEL OUTPUT into MIC or PH. An audio source's output is HIGH LEVEL if you can raise or lower its volume with its volume control.

2. CONNECTING OUTPUT

A. AMP OUTPUT

To play the mixer's output signal through your speaker system (for events such as parties, dances, conferences, tec...), connect an audio patch cord (not supplied) from the mixer's AMP R and L jacks to your receiver/amplifier's left and right input jacks.

AUDIO CONNECTION

B.REC OUTPUT

To record the mixer's output signal, connect an audio patch cord (not supplied) from the mixer's REC R and L jacks to your tape deck's left and right input jacks.

C.CAUTION: To avoid sudden and unusable sound outputs from the audio devices, adjust the audio devices' controls to these settings before you connect the mixer's output jacks to the audio devices' input jacks.

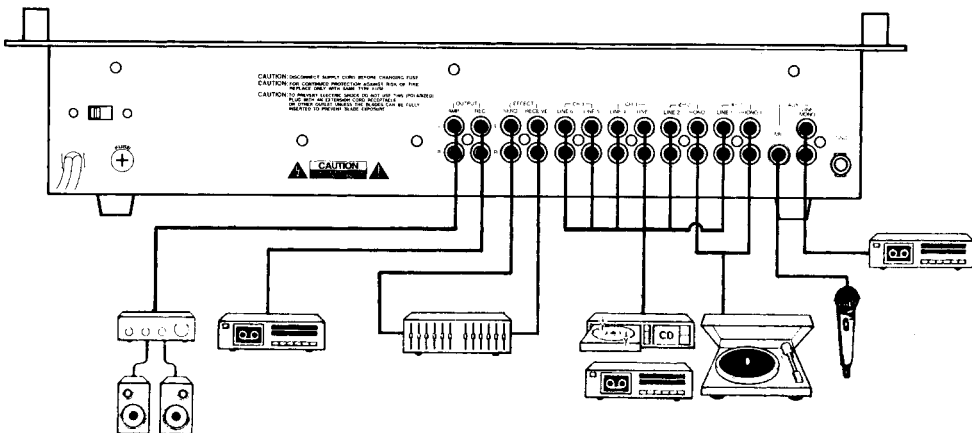
AUDIO DEVICE	CONTROL	SETTING
Tape Deck	POWER	OFF
Amplifier/Receiver	POWER	OFF
	TONE	FLAT

3. CONNECTING A LAMP

The mixer is equipped with a 12V BNC lamp adaptor for connecting a 12V/3W max lamp so you can see the control panel in a dark place.

NOTE: Use only a lamp with exact same specification as above.

--FIG. AUDIO INPUT/OUTPUT--



OPERATION

1. HEAD PHONES

To listen in privacy or monitor the audio source inputs so you can locate an exact passage or section before mixing it, plug a pair of stereo headphones with a 1/4 inch plug into the PHONES jack on the lower right front corner of the mixer.

2. MONITORING THE INPUTS

- A. Set POWER ON/OFF to ON to turn on the mixer's power. The POWER LED indicator lights.
- B. Turn on the audio input source you want to mix, and set it to play (or continuously talk into microphone).
- C. Set the CUE ASSIGN to the audio input sources (MIC/AUX, CH 1, CH 2, CH 3, or CH 4) you want to monitor. so you can decide when to mix in each input and play them through your amplifier system or record them on your tape deck.
- D. Turn the CUE LEVEL control to adjust the headphone volume without effecting the overall mix.

3. MIXING THE INPUTS

- A. The maximum available audio input sources you can mixing are:
 - MIC : DJ MIC and AUX MIC.
 - PHONO: PHONO 1 and PHONO 2, To mix the turntable connected to the PHONO jacks.
 - LINE : LINE 1, LINE 2, LINE 3, LINE 4, LINE 5, and LINE 6. To mix any high-level output audio sources connected to the LINE jacks.
- B. Set the selected audio input sources to play.
- C. Set the corresponding MIC, PHONO, and LINE volume controls to approximately 8-10.
- D. Set the INPUT DEVICE selector as desired.
 - AUX : AUX MIC or AUX LINE.
 - CH 1: PHONO 1 or LINE 1.
 - CH 2: PHONO 2 or LINE 2.
 - CH 3: LINE 3 or LINE 4.
 - CH 4: LINE 5 or LINE 6.

OPERATION

E. Rotate the MASTER volume control toward 10 until you get an average reading of 0 on both output level LED meters.

NOTE: Once you set the MASTER volume control, do not move it away from its initial setting.

The output level of LED meter indicate the total output signal levels (both the left and right channels) of all the input sources being mixed.

F. When adding an audio input source, adjust the corresponding MIC, PHONO, and LINE, volume controls so you can get an average reading of 0 on both output level LED meters.

G. Adjust the receiver amplifier's (not the mixer's) volume control to the desired volume.

H. To turn off the mixer, set POWER ON/OFF to OFF. POWER LED meter's light turn off.

4. USING THE MIC, DJ MIC AND AUX MIC

For a blending of voice and music, adjust the MIC LEVEL to increase or decrease the microphone level without affecting the main volume inputs.

A. DJ MIC, TALKOVER/MUTE LEVEL

a. ON : Set TALKOVER switch to ON, all the outputs except DJ MIC and AUX MIC are attenuated. Only your voice can be heard clearly through DJ MIC.

b. MUTE LEVEL: You can adjust the level of the input sources that been attenuated.

c. OFF: Set TALKOVER switch to OFF, all the outputs, including DJ MIC, are playing at the same level output, the background music will not be attenuated. Set DJ MIC LEVEL to 0 when not using the DJ's microphone.

B. AUX MIC

When using AUX MIC, set AUX switch to MIC, the output signal will be switched to the voice that come through AUX MIC.

When not using AUX MIC microphone, set AUX switch to LINE, the output return to the original LINE signal source which can be connected to an another mono line device. Set AUX LEVEL to 0 when not using the AUX MIC.

OPERATION

C.PAN Control, DJ MIC and AUX MIC

You can assign either DJ MIC or AUX MIC that to be played at/or between left and right channel output by rotating the PAN control of DJ MIC and AUX channel.

5. USING THE ROTARY TONE CONTROLS - HIGH, MID, AND LOW

By using the individual HIGH, MID, and LOW tone controls of all input channels, DJ MIC, AUX, CH 1, CH 2, CH 3 and CH 4, you can tailor the sound processed through the mixer to compensate for acoustic surroundings and suit your personal preference.

Each of HIGH, MID, and LOW control varies by +/- 10% of frequency range, rotating the control to MAX to boost the selected channel's frequency, rotating the control to MIN to reduce. If you set the control to the center position, the frequency range is unaltered.

6. USING THE ROTARY GAIN CONTROL

The volume of each sound source are always have varying level, and by rotating the individual GAIN control of all input channels, DJ MIC, AUX, CH 1, CH 2, CH 3 and CH 4, you can adjust the proper input level on each channel.

7. USING MONO/STEREO

When you set MONO/STEREO to MONO, the mixer keeps the left and right stereo channels separated, then sends the signals to the OUTPUT L and R jacks. The combined output signals can be used by a monaural amplifier, such as a PA amplifier.

When you set MONO/STEREO to STEREO, the mixer keeps the left and right stereo channels separated, then sends the signals to the OUTPUT L and R jacks. The stereo output signals can be used by a stereo amplifier or tape deck.

OPERATION

8. USING THE CROSSFAER

When two channels are playing at the same time, slide CROSSFADER to:

A.<A : To fade in the input source selected by ASSIGN A and fade out the input source selected by ASSIGN B.

B.B> :To fade in the input source selected by ASSIGN B and fade out the input source selected by ASSIGN A.

C.The center : To mix the input source selected by ASSIGN A and ASSIGN B equally.

9. USING THE ECHO

A.The echo mode is applied to the sound after all the inputs are mixed.

B.Set the ECHO ON/OFF to ON to turn on the echo mode and activate the DELAY and REPEAT functions.

C.The DELAY control lets you include a measured time delay to simulate an echo. Set DELAY towards 10 for a maximum time delay and towards 0 for a minimum time delay.

D.The REPEAT control lets you control the length of time a tone is repeated (reverberation). Set REPEAT towards 10 for the longest time and towards 0 for the shortest time.

E.The LEVEL control lets you control the output level of the echo effect. Set LEVEL towards 10 for raising the level and towards 0 for lowering the level.

10.USING THE SEND AND RECEIVE

A.SEND ASSIGN

Set the selector switch to MIC/AUX, CH 1, CH 2, CH 3, or CH 4 to select the audio signal you want to improve through the other sound effect devices, such as an echo reverb or a digital sampler processor.

OPERATION

B.SEND LEVEL

Let you adjust the output level of the selected audio signal that sent to the sound effect devices.

C.RECEIVE ON/OFF

Set the selector switch to ON, to RECEIVE the audio signal that being processed back to the mixer. It is also features as an additional LINE level input which activated by RECEIVE ON/OFF switch.

D.RECEIVE LEVEL

You can adjust the input level of the audio signal that being received back.

11. USING THE DRUM EFFECTS

A. There are six pre-programed drum sound effects for your selections, CLOSED HI-HAT, RIM SHOT, COW BELL, CYMBAL, BASS DRUM, and LASER DRUM.

Press any button of sound effects to generate the sound you wish to mix, it will play continuously until you release the button to stop.

B. The LEVEL Control: Lets you adjust the volume of the DRUM EFFECTS.

TROUBLESHOOTING

Your mixer should require very little maintenance. If you have problems, refer to this chart for possible solutions.

NOTHING WORKS	Check the AC power connection. Make sure the AC outlet is "live". Check the power connection to the rest of the system (amplifier/receiver, etc.)
NO SIGNAL FROM AN AUDIO INPUT SOURCE	Check the control setting. Check the connection between the mixer and the input source.
HUM FROM PHONO	Check the turntable's ground wire (usually black or green) to the mixer.
HUM FROM OTHER	Make sure there are no low level inputs connects to LINE input jacks.
FEEDBACK "SEQUELS"	Move the microphone further away from the output speakers or use a directional microphone.

SPECIFICATIONS

INPUT SENSITIVITY/IMPEDANCE

DJ MIC (XLR jack)	1.5mV, 600 ohms, Balanced/Unbalanced
AUX MIC (PHONE jack)	1.5mV, 600 ohms, Unbalanced
PHONO	3mV, 50K ohms
LINE	150mV, 27K ohms
RECEIVE	150mV, 27K ohms

OUTPUT LEVEL

MAIN OUT	2V, 10K ohms
RECORD	150mV, 10K ohms
SEND	150mV, 10K ohms
FREQUENCY RESPONSE	20-20K Hz +/- 3dB

DISTORTION

MIC	< 0.20%
PHONO	< 0.05%
LINE	< 0.03%

S/N RATIO

MIC	> 55 dB
PHONO	> 65 dB
LINE	> 75 dB

TONE CONTROL, DJ MIC, AUX, CH 1, CH 2, CH 3, CH 4

HIGH	+/- 10 dB at center
MID	+/- 10 dB at center
LOW	+/- 10 dB at center

ECHO DELAY TIME 50mS ~ 120mS

TALKOVER ATTENUATION-8 ~ -38 dB

POWER SOURCE 120V AC 60 Hz/220V AC 50 Hz, 20W
DIMENSIONS 482 X 82 X 280 mm (WHD)

Specifications are typical; individual units might vary.
Specifications are subject to change and improvement without notice.

