PM SERIAL

PROFESSIONAL

MIXERS

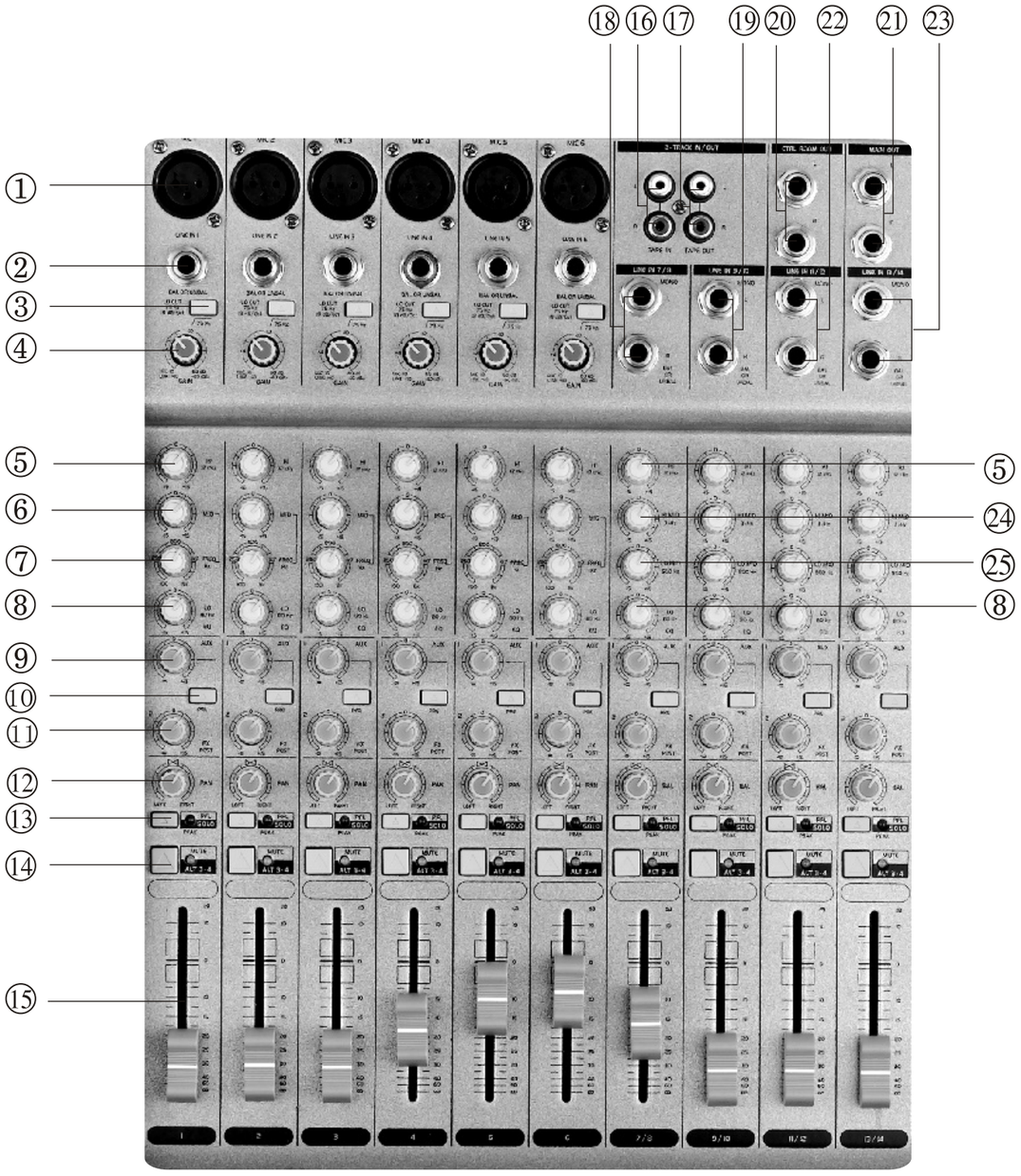


PMI84X

OWNER'S MANUAL

TECHNICAL SPECIFICATION

	PM184X
Mono input channels	
Mic input	Electronically balanced,discrete input configuration
Frequency response	10Hz to 60KHz ±3dB
Distortion(THD&N)	0.007% at +4Bu, 1KHz, bandwidth 80KHz
Gain renge	+10dB to +60dB
Max input	+12dBu
Line input	Electronically balanced
Frequency response	10HZ to 60KHz ±3dBv
Distortion(THD&N)	0.007% at +4Bu, 1KHz, bandwidth 80KHz
Channel fader range	+10dBu to -60dBu
Max input	+22dBu
EQ	
Low	80dB to ±15dB
Mid	100Hz to 8KHz ±15dB
High	12KHz ±15dB
Lo cut filter	-3dB at 75Hz 18dB/Okt
Stereo input channels	
Line input	Electronically balanced
Frequency respones	10Hz to 60KHz ±3dB
Distortion(THD&N)	0.007% at +4dBu, 1KHz, bandwidth 80KHz
Channel fader range	+10dBu to -60dBu
Max input	+22dBu
EQ	
Low	80Hz ±15dB
Lo mid	500Hz ±15dB
Hi mid	3KHz±15dB
High	12KHz±15dB
Main mix	
Main mix	
Max output	+28dBu balanced on XLR, +22dBu unbalanced on JACK
Aux send max, output	+22dBu unbalanced
Control room output	+22dBu unbalanced
Noise	-112dB (all channels open,at unity gain)
Graphik equalizer	
Frequencies	60Hz,160Hz,410Hz,1.1KHz, 2.3KHz,6.2KHz,15.6KHz
Max boost/out	±10dB
Power conaumption	1200W
Output power	2x400W/ 4Ω
Power supply	AC 220V-240V, 100V-120V(option)/50-60Hz



(24) ALT3-4 OUTPUT PFL

(25) PFL/SOLO

When you push the SOLO/PFL button, the SOLO/PFL control led will light up.

(26) OUTPUT LEVEL DISPLAY AND WORKING INDICATOR

You can choose the master channel and monitor the output level from the chosen bus channel.

(27) HEAD PHONE JACK

You can monitor the working condition by phone. You can also monitor the master sound and a certain channel.

(28) +48V PHANTOM POWER

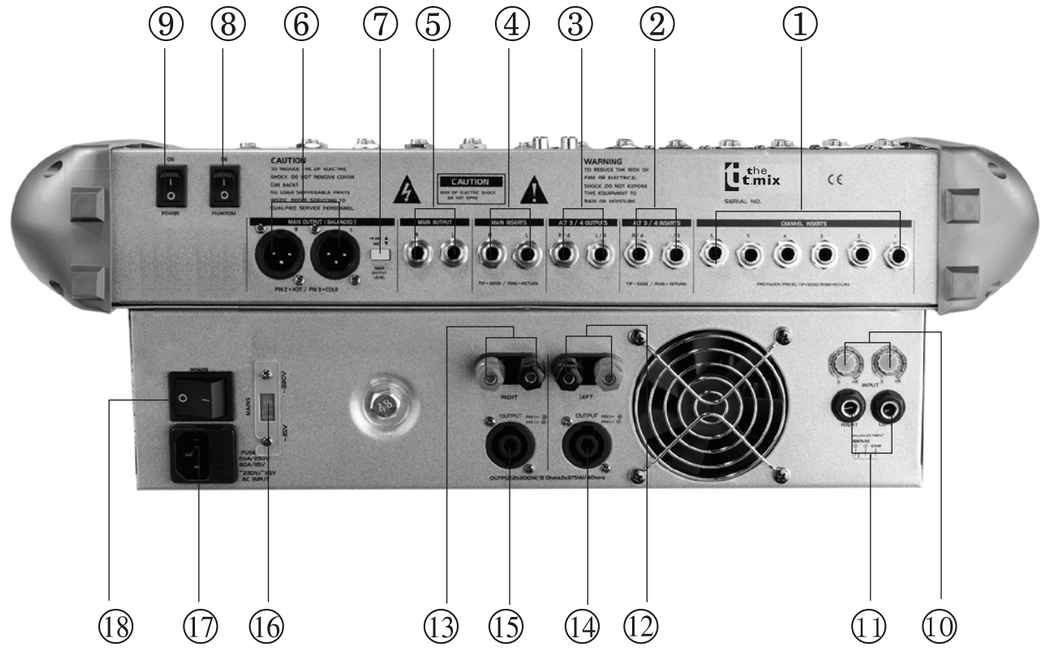
(29) POWER INDICATOR

(30)(31) UP AND DOW BUTTONS

You can choose the desired preset

(32) ENTER BUTTON

It activates the secleted preset.



(5)HIGH FREQUENCY EQUALIZATION CONTROL

Provides ±15dB of fixed frequency equalization that shelves at 12KHz.

(6) MIDRANGE GAIN CONTROL

It has up to 15dB of cut and boost, with a centre detent for off.

(7) MIDRANGE CONTROL

It is semi-parametric with peaking response, Q fixed at 1 octave, sweepable from 100 Hz to 8 KHz.

(8).LO FREQUENCY EQUALIZATION CONTROL

Provides ±15dB of fixed frequency equalizationthat shelves 80Hz.

9) AUX CHANNEL

It provide pfl reverb or be connected with other related equipments**.**

(10) AUX SIGNAL SWITCH

Adjusting the switch, you can know where the signals are from?

(11) DIGITAL EFFECTS PROCESSOR

It is integrated effects processor which offers 32 different standard effects like reverb, chorus, delay, pitch shifter and various combination effects.

(12).PAN CONTROL

The pan control sends continuously variable amounts of the post fader signal to either the Left & Right main busses. In the center position,equal amounts of signal are sent to the and right busses. As the control is roated in either direction,more signal is sent to the buss indicated in the direcction of the rotation while less signal issent to the other buss, if the control is turned all the way to one side, the signal is only.

(13) PRE-FADER LEVEL(PFL)

Pressing channel mode switch once disengages the stereo solo bus, and replaces it with a separate mono pfl bus. Pfl should always be used for gain setting.

(14) BUS ON/OFF

This switch, when push, put the signal into bus and output from alt3-4

(15).CHANNEL FADER

You can adjust the volume of signalsources which connected to the relevant channel.

(16), (17),STEREO RECORDER &PHONO JACK

(16), these jacks can be connected with cassette cleek. When playing back recorded.

(16), these jack are can be connected with cassette cleek. When recording the MIXED output.

(18), (19), (22), (23) LINE IN

(18) line in for channel 7/8 (19) line in for channel 9/10.

(22) line in for channel 11/12 (23) line in for channel 13/14.

(20) CTRL ROOM CUT

(21) MAIN OUT

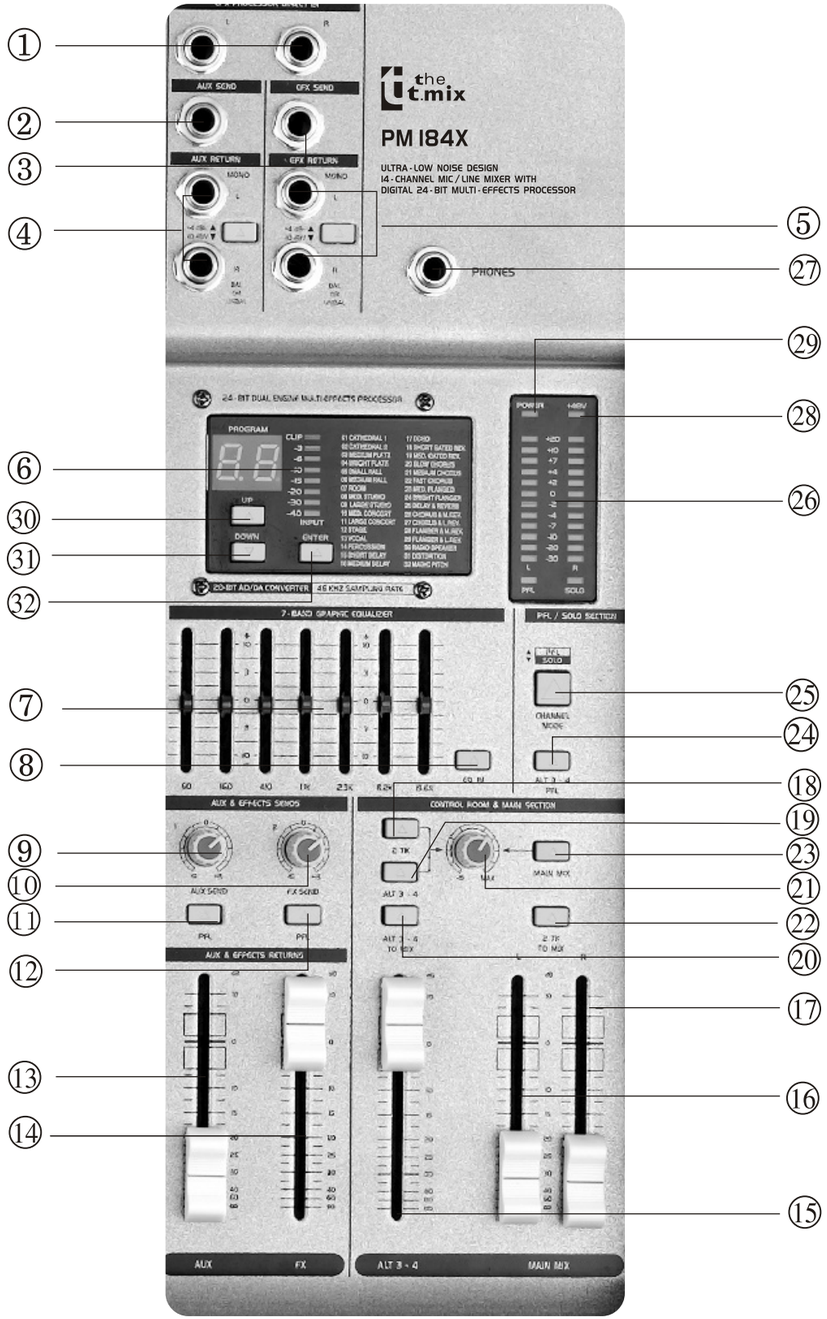
The output signal can be connected with the external main speaker and amplifier.

(24) HI MID

Adjusting the knob, you can have up to 15dB cut and boost at 3KHz mid and hi frequency.

(25) LO MID

Adjusting the knob, it have up to 15dB cut and boost at 500Hz mid and low frequency.



B:MASTER SECTION

(1) FX PROCESSOR DIRECT IN

The external signals can be connected with the DSP input

(2) AUX SEND

Aux signal output jack

(3) FX SEND

FX signal output jack

(4) AUX RETURN

FX output signal return jack

(5) FX RETURN

FX output signal return jack

(6) DIGITAL EFFECTS PROCESSOR

24-bit stereo 32-effect processor with ultra-high resolution 46KHz, 20-bit AD/DA converters, for internal and external use.

(7) SEVEN-BAND GRAPHIC EQ

It can adjust input sensity from-10dB to +10dB at the following frequencies: 60Hz, 160Hz, 410Hz, 1.1KHz, 2.3KHz, 6.2KHz and 15.6KHz.

(8) EQ IN

When pushing the switch, it can release the output signal from EQ. The switch is off, then the signal is not from EQ.

(9) AUX SENDS GAIN CONTROL

You can have a further +15dB available from these outputs

(10) FX SENDS GAIN CONTROL

You can have a further +15dB available from them

(11) AUX PFL

(12) FX PFL

(13) AUX OUTPUT CONTROL

Adjusting the fader, you can get different output level from AUX

(14) FX OUTPUT CONTROL,

You can adjust the output level of aux.

(15) ALT3-4 OUTPUT LEVEL CONTROL

You can control the ALT3-4 signals separately.

(16)(17) L. R MASTER OUTPUT CONTROL

You can control the L. R signal by adjusting the two fades.

(18) 2-TRACK INPUT

It is primarily for auditioning mix playback from tape.

(19) ALT3-4 OUTPUT PFL

(20) ALT3-4 BUS

(21) HEADPHONE VOLUME CONTROL

Using the control, you can control the output level of headphone and monitor the signals reverb from speaker.

(22) 2-TRACK OUTPUT

(23) MAIN MIX

CHARACTORS:

- 6 mono input channels with gold plated XLRs, balanced line inputs and inserts.
- ultra-low noise discrete mic preamps with +48V phantom power.
- 4 stereo input channels with balanced jacks.
- 2 additional multi-functional stereo channels with 60mm faders.
- switchable 7-band graphic equalizer for ultimate main mix equalization.
- ALT 3-4 bus routable to main mix and control room with insert, PFL and 60mm masterfader.
- extremely high headroom-offering more dynamic range.
- balanced inputs and main outputs for highest signal integrity.
- ultra-musical 4-band EQ (stereo channels) and 3-band EQ with sweepable mid band (mono channels).
- peak LEDS and switchable low-cut filter on all mono channels.
- 2 AUX sends (AUX 1 pre/post)per channel, for internal or external effects and monitoring.
- master AUX sends with gain control and PFL.
- mute/ALT 3-4, solo-in-place and pre-fader-listen function on all channels.
- separate main mix, ALT 3-4, control room and headphone outputs.
- 2-track inputs assignable to main mix or control room/headphone outputs.
- highly accurate 12-segment bargraph meters.
- high quality 60mm panasonic faders and sealed potentiometers.

A.CHANNEL SECTON

All channels of powered mixers & mixing consoles are the same. Therefore ,this manualhows the control functions of only one channel.

(1)MICROPHONE

Electronically Microphone inputs accept a standard XLR male connector.

1.GROUND=shield, 2.HOT=signal input, 3.COLD=ground(shield).

You can use max 10-60dB according to signallevel by GAIN control.

(2)LINE INPUT

USING BY 1/4"standard line connector,You can use unbalance(tip/signal) and balance(tip/ring/signal). It can be connected with keyboards orother electric instruments.

Tip=positive ring=negative sleeve=ground.

(3)LOW CUT

This switch, when push, cut the input signal below 75Hz.

(4)GAIN CONTROL

Adjust input sensitivity from 10dB to 60dB with the 60dB pad switch in the out position and -40dB to +10dB when the 60dB pad switch is pushed.

C:REAL PANEL

(1) CHANNEL INSERTS

Pre-fader/pre-EQ tip=send/Ring=return

(2)ALT3-4 INSERTS

(3) ALT 3-4 OUTPUTS

(4) MAIN INSERTS

(5) MAIN OUTPUTS(UNBALANCED)

(6) MAIN OUTPUTS(BALANCED)

(7)BALANCED MAIN OUTPUT LEVEL SWITCHES

Via the switches, you can choose between the two different operating level settings-10dBV and +4dBU.

(8) PHANTOM POWER

When you push the switch, all mics outputs have +48V phantom power present.

(9) POWER ON FOR MIXING SECTIONS

(10) AMPLIFIER LEVEL IT CAN ADJUST THE SIGNALS LEVEL WHICH ARE SENT TO THE AMPLIFIER

(11) BALANCED INPUT FOR SIGNALS FROM AMPLIFIER

Users can get the different signals from the source according to their requirements.

(12) LEFT binding output

red+ black-

(13) RIGHT binding output

red+ black-

(14) LEFT Speakon output

1+ 2+ , 1- 2-

(15) RIGHT Speakon output

1+ 2+ , 1- 2-

(16) POWER AND VOLTAGE SELECTIVE SWITCH

115V or 230V optinal.

(17) POWER SUPPLY/FUSE SOCKET

Must ensure the correct specifications before replace the fuse

(18) POWER SWITCH

When it is turned on, the amplifier begins to work.

PM SERIES MIXERS ARE SOUND IN FUNCTION, ADVANCED IN WORKMANSHIP AND SMALL IN SIZE. ADOPTING THE ADVANCED SMT TECHNOLOGY MAKES THE SIZE OF THE MIXERS MUCH SMALLER AND IMPROVES THE RELIABILITY AND S/N RATIO OF THE MIXERS.

IT IS VERY EASY TO MOVE BECAUSE THEY ARE UNIQUE HANDLES. THEY CAN ALSO BE PUT INTO THE 19' RACK BY TAKING OFF THE HANDLES. THEY ARE THE BEST DEVICES FOR YOUR MOBILE PERFORMANCE.

USING HIGH QUALITY COMPONENTS FROM FAMOUS COMPANIES TO GUARANTEE THE QUALITY OF SIGNAL.

LOW NOISE AND HIGH GAIN 4580 OP AND 32-EFFECT DSP. POWER MIXERS WITH 2X400W AMPLIFIER

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

TO TREVENT ELECTRIC SHOCK
DO NOT REMOVE COVER OR
BACK.NO USER SERVICEABLE
PARTS INSIDE REFER SERVICING
TO QUALFIED SERVICE PERSON-NEL



WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK,DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

Magnetic Field

CAUTION!DO not locate sensitive high-gain equipment such as preamplifiers or tape decks drecity above or below the unit,Because this amplifier has a high power density,it has strong magnetic field which can induce hum into unshielded devices that are located nearby .The field is strongest just above and below the unit.

If an equipment rack is used ,we recommend locating the amplifiers in the bottom of the rack and the preamplifier or other sensitive equipment at the top.

WATCH FOR THESE SYMBOLS:



The lightning bolt triangle is used to alert the user to the risk of electric shock.



The exclamation point triangle is used to alert the user to important operating or maintenance instructions.