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Ultra low noise 8,12,16,24 Channel Mic/Line/USB Mixer

- ▲ 8,12,16,24 Mono Input Channels with XLR and Un/Balanced Line,INSERT Inputs
- ▲ 2/4 groups with INSERT jack
- ▲ 2/3/4 Aux Send per channel for external effects and monitoring
- ▲ AUX1-2 equip with Pre/Post fader switch(Optional function with difference model)
- ▲ Foot switch jack,Monitor jack,CD/TAPE input and output
- ▲ Low Cut switch on each channel.
- ▲ Effect send to AUX with individual volume control knobs(Optional function)
- ▲ Long LED Light with switch(Optional function with difference model)
- ▲ Mp3 player with LCD,recording and Bluetooth.(Optional function with difference model)
- ▲ +48V Phantom Power with main switch
- ▲ Ultra-musical 4-band EQ on all channels
- ▲ Peak LEDs on all Channels,
- ▲ Built in 200 kinds DSP effect processorwith LCDdisplay.
- ▲ 4 Highly accurate 10 segment Bargraph Meters for GROUP and MAIN L/R outputs
- ▲ Built-in switching power supply.(External adapter is optional with difference model)

SAFETY INSTRUCTIONS

CAUTION:To reduce the risk of electrical shock,do not remove the cover (or back).No user serviceable parts inside; refer servicing to qualified personnel.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:To reduce the risk of fire or electrical shock,do not expose this appliance to rain or moisture.

A This symbol,wherever it appears,alerts you to the presence of uninsulated dangerous voltage inside the enclosure -voltage that may be sufficient to constitute a risk of shock.



This symbol,wherever it appears,alerts you to important operating and maintenance instructions in the accompanying literature.Read the manual.

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I CAUTION I

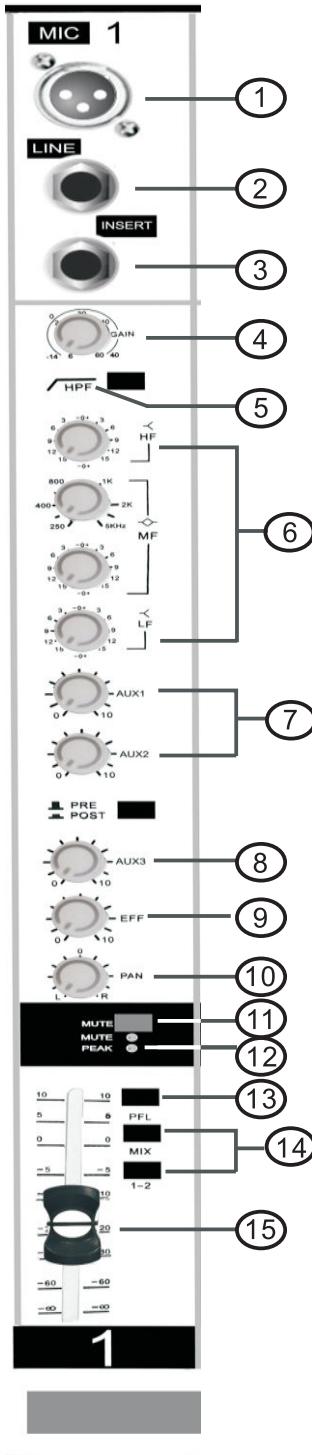
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MONO INPUT CHANNEL SECTION



1. BALANCE INPUT (MIC)

Electronically Balanced inputs acceptable a standard XLR male connector. +48V Phantom Power available on each input Mic socket.

2. LINE INPUT

The unbal/balanced Mic input is provided for the use of an unbal/balance mic and is designed to accept an unbal/balanced high impedance input signal.

(This use for connection Deck, Turntable, keyboard etc...)

3. INSERT

The INSERT is a break point in the input channel signal path. It allows the signal to be taken out from the mixer, through an external equipment such as a compressor, and then back to the mixer to continue the final mix output.

4. GAIN

This button has a function which adjusts the input sensitivity of each channel in order to input the constant level of the signal.

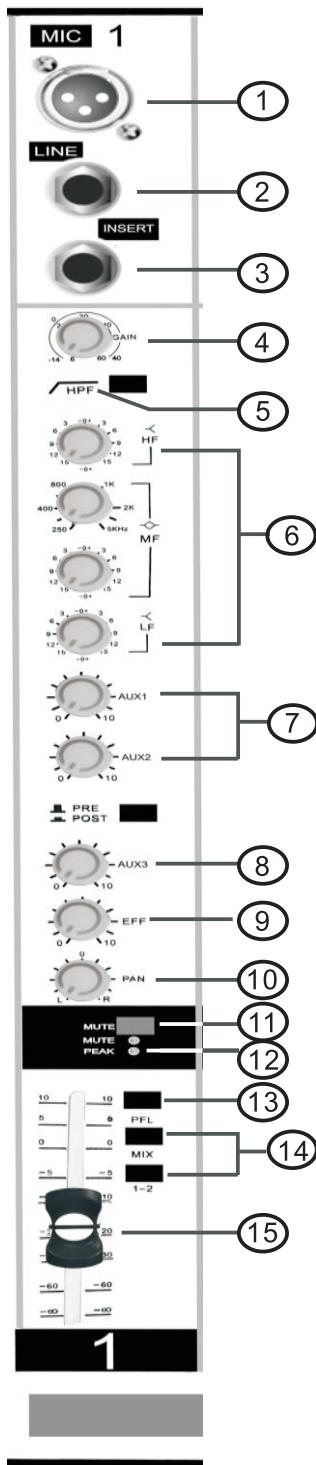
5. LOW CUT

The low cut switch, 75Hz a at a rate of 18 dB per octave.

6. EQUALISER

- 1) Control the high frequency tone of each channel. Always set this control to the 12 o'clock position, but you can control the high frequency tone according to the speaker, the conditions of listening position and listener's taste. Clockwise rotation of the control increases level.
- 2) Control the middle frequency tone of each channel. Always set this control to the 12 o'clock position, but you can control the middle frequency tone according to the speaker, the conditions of listening position and listener's taste. Clockwise rotation of the control increases level.
- 3) Control the mid-low frequency tone of each channel. Always set this control to the 12 o'clock position, but you can control the mid-low frequency tone according to the speaker, the conditions of listening position and listener's taste. Clockwise rotation of the control increases level.
- 4) Control the low frequency tone of each channel. Always set this control to the 12 o'clock position, but you can control the low frequency tone according to the speaker, the conditions of listening position and listener's taste. Clockwise rotation of the control increases level.

MONO INPUT CHANNEL SECTION



7. AUX1-2

These 2 AUX equip with PRE/POST switch for the AUX send pre-fader or post-fader.

(Optional function with difference model)

8. AUX 1-2.(AUX 3/4 Optional function with difference model)

This is normally derived before the channel fader (PREFADER), and is therefore unaffected by, the fader position and routing status. This makes the send particularly suitable for fold back or monitor feeds, which need to be controlled separately from the main P.A. Mix. All pre-fade sends may be selected internally to be PRE-FADER.

9. EFF

Use this control when you want to get effect sound by adjustment of input signal. When you don't use external source, the built-in DSP effect processor will be working.

10. PAN

The pan control sends continuously variable amounts of the post fader signal to either the left or right and G1 or G2 main buses. In the center position equal amounts of signal are sent to the left and right or G1 & G2 buses.

11. MUTE

Press this switch to turn the channel signal off.

The red LED lights to warn that the channel is muted.

12. PEAK

A red LED indicates a signal level at the insert return point, premaster fader, it illuminates at approximately 5 dB below clipping.

13.PFL

Press PFL to listen to the pre-fade channel signal in the headphones and local monitor without affecting the main outputs.

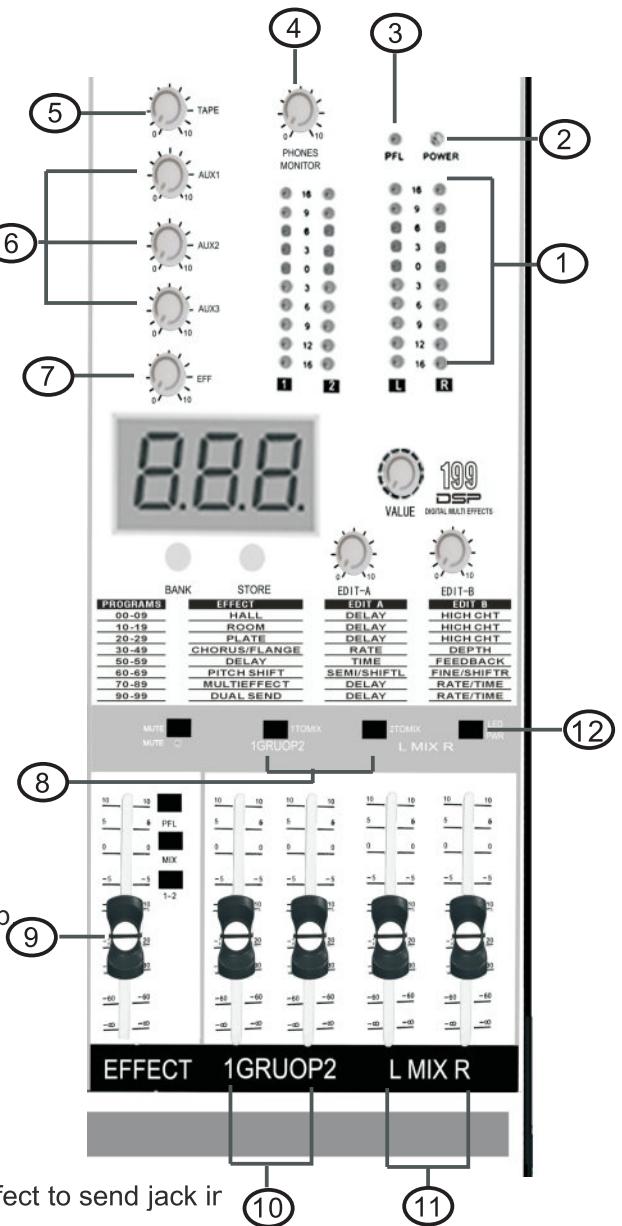
14.MIX/GROUP1-2

Press MIX switch to send signal to MAIN output. Press 1-2 switch to send signal to GROUP1-2 output.

15.CHANNEL FADER

This is function to adjust the volume of signal connection into each channel and adjust the volume of output, together with master fader. Normal operating position is at the "O" mark, providing 4dB of gain above that point, if required.

MASTER SECTION



1. LEVEL INDICATOR

There are 10 LED indicators to accurately display the signal level of the selected monitor source. Reduce the gain or level if the red '+16' peak indicator lights. For optimum performance the signals should be adjusted to read an average '0' with loudest peaks reaching around '+6'.

2. POWER LED

The POWER LED will be turned on when start working.

3. PFL LED

This LED will be turn on when press down the PFL switch .

4. PHONES/MONITOR

This controls the level of the signal sent to the headphones and monitor output socket.

5. TAPE

This controls the level of the signal sent to the TAPE/CD output socket.

6. AUX

Each of the AUX output has a master output level control knob. The aux input level is controlled by these knobs.

6.1.FX TO AUX (OPTIONAL FUNCTION FOR DIFFERENCE MODEL)

This controls the level of the effect sent to each AUX output.

7. EFF

This is used for adjusting volume of effect, when sending effect to send jack in effect panel.

8. SUB1-2/(TO SUB3-4) TO MIX

9. EFFECT FADER

This is used for adjusting the effect output level of built-in / external effect unit for each channel.

10. GROUP FADER

The GROUP FADERS set the final level of the Sub group outputs. These should normally be set close to the '0' mark if the input GAIN settings have been correctly set, to give maximum travel on the faders for smoothest control.

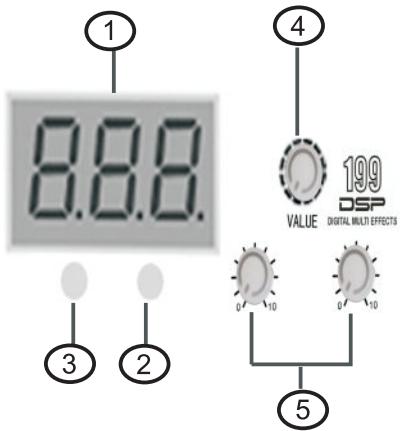
11. MIX FADERS

These faders control the overall level of the mix bus.

12. LED PWR (Optional Function for Difference Model)

Push down/up this the power switch to turn on/off the long LED light.

EFFECT SECTION



1. LED DISPLAY

The LED display typically shows the currently selected Program. It can also display the effect data which you saved (when the BANK button is held down) or parameter values (when the [EDIT A] or [EDIT B] knobs are adjusted). Stereo delay with 3 against 2 rhythm 255ms Mono delay

The display will dim slightly when it is not displaying the current Program. When the Store button is pressed, the Display will flash the destination Program number.

2. STORE Button.

When the [STORE] button is pressed, the LED Display will flash the number of the Program that the current program will be stored to. If Store is pressed again, the display will flash rapidly and the current Program will be stored. Programs can only be stored into the User bank, Programs 100-199.

Fast rock lezlie program (set Mix 100% wet)
Slow, warm lezlie for ballads (set Mix 100% wet)

3. BANK Button.

If this button is clicked once, a Program in the opposite bank will be selected. (i.e. If Preset Program 34 is selected when Bank is pressed, the effect will switch to User Program 134.)

4. Value Encoder.

The [VALUE] Encoder is used to select Programs and to change the effect data (see below).

5. Edit A/ Edit B Controls.

Each Program on the device has two parameters which can be adjusted. Depending on the type of Program selected, these might alter Reverb Decay, Chorus Depth, etc. When an Edit knob is adjusted, the new value is briefly shown on the LED Display.

PRESET EFFECT

#	DESCRIPTION	TYPE	
00	All- purpose concert hall, great for vocals	Hall	
01	Warm, large hall, try on piano or acoustic guitar		
02	Small, bright hall for snares		
03	Big, dark, scary castle reverb		
04	Live, medium hall		
05	Warm hall with 100ms predelay		
06	Deep, wide, bright space		
07	Parking garage reverb with lots of high damping		
08	Small recital hall for acoustic instruments		
09	Bright hall with low damping, try on vocals		
10	Medium, hardwood studio room	Room	
11	Reverb early reflections, for percussion ambience		
12	Warm, medium room for instruments		
13	Tight room for ambience		
14	Gated room for snares and toms		
15	Very tiny room		
16	Small studio room with high damping		
17	Tighter gated room reverb		
18	Nonlinear reverb for retro '80s percussion		
19	Reverse reverb for effects		
20	Studio goldfoil plate reverb	Plate	
21	Smooth snare drum plate		
22	Thin, transparent plate		
23	Bright, dense vocal plate		
24	Large, warm instrument plate		
25	Very small plate reverb, tasty on snares		
26	Long, smooth vocal plate		
27	Wide, diffuse piano ambience		
28	Skinny, vintage plate reverb		
29	Simulation of plate reverb with lots of damping		
30	Wide, true stereo chorus	Chorus/Flange	
31	Fast, shallow stereo chorus		
32	True stereo chorus with less predelay		
33	Deep stereo chorus with feedback		
34	Wide chorus with delay for pads and volume swells		
35	Slow, deep quad chorus		
36	Fluid true stereo chorus		
37	Classic stereo chorus		
38	Subtle quad chorus		
39	True stereo flanger with doubling delay		
40	Slow, sweeping flange with heavy feedback	Multi-Effect	
41	Faster, bubbly stereo flange		
42	Slow triggered stereo flange		
43	Wide true stereo flange with positive feedback		
44	Faster, shallow stereo flange		
45	True stereo flange with + and - feedback		
46	Slow flange for grungy bass		
47	Slow auto pan (set Mix 100% wet)		
48	Medium tremolo (set Mix 100% wet)		
49	Faster tremolo for electric pianos (set Mix 100% wet)		
50	True stereo offset delay	Pitch Shift	
51	Ping pong delay with band pass filter		
52	Rhythmic multitap delay		
53	True stereo 1/4 note and 1/8 note delay		
54	Long mono delay		
55	Stereo delay with 3 against 2 rhythm		
56	255ms Mono delay		
57	Stereo bouncing multitap delay		
58	255ms Ping pong delay, try with tap tempo		
59	Tape echo, repeats get darker as they decay		
60	Classic stereo detuner	Multi-Effect	
61	500ms detuned delay program		
62	5th and 9th harmony for leads		
63	Thicker stereo detune program		
64	Faster detuned delay, great on guitar		
65	Upward staircasing pitch effect		
66	Mono pitch shifter with Semi and Fine controls		
67	Stereo detune with feedback		
68	Octave pitch shift		
69	Detune/delay program for synth pads		
70	Fast rock lezlie program (set Mix 100% wet)	Dual Send	
71	Slow, warm lezlie for ballads (set Mix 100% wet)		
72	Thick stereo chorus into a hall		
73	Large room with flange and delay		
74	Flanged room, great for drums and guitars		
75	Room into a triggered flange, try on percussion		
76	Deep stereo chorus into a room		
77	Stereo flange into a small room		
78	Thick chorus into a bright room		
79	Delay into a room, great for lead vocals		
80	Slow chorus into a delay and room reverb	Multi-Effect	
81	Like above, but with a shallower chorus		
82	Fluid flange/delay/room program for guitar		
83	Like above, but with more room and less flange		
84	Chorus and delay into a bright room, for rhythm guitar		
85	225ms delay into a room		
86	Long delay into a room, perfect for leads		
87	350ms delay into room, good for mid tempo vocals		
88	Chorus/long delay/hall multieffect		
89	Room into flange with heavy feedback		
90	Hardwood room and a wide, true stereo chorus	Dual Send	
91	Bright room and a slow, sweeping flange		
92	Large room and a stereo chorus		
93	Like above, with a warmer room. Great for ballads		
94	Dark room and a deep flange for rock mixes		
95	Tight room and a 150ms slapback delay		
96	Large room with a long delay for late night mixes		
97	Tight room and a slow stereo chorus		
98	Bright hall with a 1/4 note delay @ 108bpm		
99	Large room and a slow flange with feedback		

SAVE EFFECT PARAMETERS

#	DESCRIPTION	TYPE	
100	Large, bright hall, perfect for piano	Hall	
101	Small, bright hall for drums and brass		
102	Large, dense cathedral reverb		
103	Dreamy, ambient instrument space		
104	Medium hall with high damping, great for strings		
105	Breathy small hall for vocals		
106	Large hall with bass boost, try on drums		
107	Large, bright hall with lots of high damping		
108	Medium hall, great for snares and rimshots		
109	Large, warm hall for acoustic guitars and pianos		
110	Splashy stone room	Room	
111	Medium studio room with high damping, try on guitar		
112	Large, dark room for vocals and winds		
113	Tight percussion room with lots of early reflections		
114	Large, deep room for almost anything		
115	60% of the signal is gated for a unique snare reverb		
116	Dense stone room with wide early reflections		
117	Small room for background vocals		
118	Long gated reverb, interesting on pianos		
119	Wide early reflections for ambience		
120	Bright instrument plate	Plate	
121	Thin, transparent vocal plate		
122	Subtle tube plate emulation		
123	Dark plate, great for adding sustain to acoustic guitar		
124	Long plate with 70ms predelay		
125	Medium vocal plate with high damping		
126	Small, snappy plate for percussion and rhythm guitar		
127	Authentic warm plate for guitar, piano		
128	Bright instrument plate, slightly chorused		
129	Large, ambient plate for ballads, effects		
130	Silky, deep quad chorus	Chorus/Flange	
131	Fast stereo chorus for active guitar and keyboard parts		
132	Big quad chorus with lots of feedback		
133	Faster quad chorus for bass		
134	Deep wide chorus with feedback		
135	Delayed chorus for sounds with a slow attack		
136	Shallow quad chorus for rock and country guitar		
137	Slow stereo chorus for electric piano		
138	Very slow chorus with stereo delay		
139	Wide, true stereo chorus with inverse feedback		
140	Smooth true stereo flange for vocals, strings	Multi-Effect	
141	Mild, shallow stereo flange		
142	Deep sweeping flange for tense rhythm guitar		
143	Dry stereo triggered flange		
144	Panning stereo flange, R is double the speed of L side		
145	Very deep stereo flanger for extremists		
146	Vintage stereo flange pedal, turn it up!		
147	Totally useless but fun effect		
148	Fast triggered pan (set Mix 100% wet)		
149	Medium speed surf guitar tremolo (set Mix 100% wet)		
150	Stereo widening delay	Delay	
151	Stereo multitap for remix percussion effects		
152	Jazzy shuffle stereo delay		
153	Long ping pong delay for guitar		
154	Stereo slapback delay for rock vocals		
155	Short mono delay for more surfing guitar players		
156	Stereo delay panner (listen 100% wet)		
157	Thin phase delay for vocal effects		
158	Ambient dance echo effect		
159	Wide, 500ms stereo delay		
160	Stereo pitch shift with slapback delay	Pitch Shift	
161	Stereo detune with 400ms delay		
162	Detuned, repeating echo program		
163	" Falling" pitch shifter effect		
164	Wide detune/delay program- huge on synth pads		
165	Rising whole tone pitch shift effect		
166	Pitched harmony: Up a 5th and down a 4th		
167	Thick stereo detuner with feedback		
168	Rhythmic pitch shift sequence		
169	Another falling pitch shifter for vocal effects		
170	Fast lezlie for guitar (set Mix 100% wet)	Multi-Effect	
171	Slow lezlie into a hall for ballads (set Mix 100% wet)		
172	Authentic lezlie speaker into a small room (100% wet)		
173	Stereo chorus into hall program for clean guitars		
174	Flange/Delay/Room stack for guitars		
175	Large room into a flange, great on bright percussion		
176	Deep, resonant flange into a room		
177	Pitch shifting room, like the walls are moving...		
178	Flange with doubling delay into a small room		
179	Slight chorus into a live room, great for piano		
180	Fast triggered flange into a room	Dual Send	
181	Dreamy reverb for flashbacks in bad movies		
182	Chorus/Delay/Room multieffect for uptempo guitar		
183	440ms delay with small ambient reverb		
184	Huge Chorus multieffect for huge rock guitar		
185	Chorus into a room for funky clav or guitar		
186	Deep flange into a small hall for grungy guitar		
187	Flange into a 244ms delay with warm room reverb		
188	Fast delay into a room reverb for vocals, solos		
189	Large room into a deep flange- guaranteed to stimulate		
190	Warm hall with a stereo chorus		
191	Bright hall with a slow flange		
192	Small hall and a smooth stereo chorus for ballad mixes		
193	Wood room reverb with 250ms delay for vocals		
194	Small room with a deep stereo chorus		
195	Large hall with a long delay for slower tempos		
196	Large room and a slow flange with negative feedback		
197	Wooden drum room with medium delay		
198	Warm plate with a slow stereo chorus		
199	Bright room with a thick stereo flange		

MP3 PLAYER SECTION (OPTIONAL FUNCTION FOR DIFFERENCE MODEL)

1 .PLAY/PAUSE KEY

This is the PLAY/PAUSE key for the USB/SD/MMC play. Push this button to PLAY or PAUSE the playing.

2. PREV/VOL- BUTTON

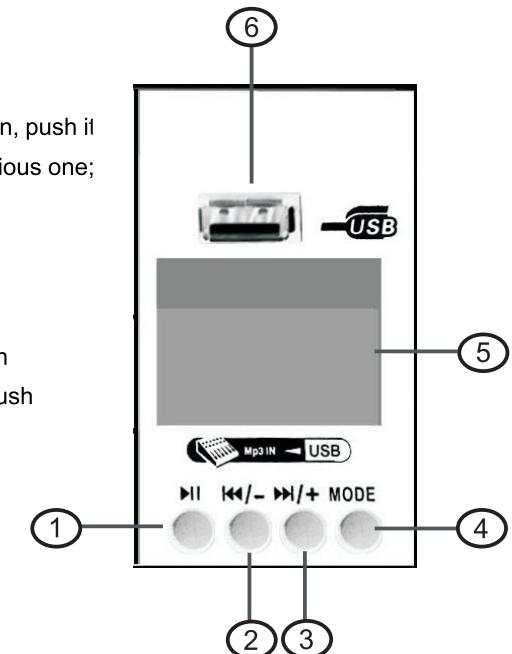
These is the search backward and reduce volume of the MP3player button, push it once to search the previous one, push twice to search previous and previous one; push it more than 3 seconds it will reduce the volume of the MP3 player.

3. NEXT/VOL + ▶▶■ BUTTON

This is the search forward and add volume of the MP3 play button, push it once to search the next one, push twice to search extend next one; push it more than 3 seconds it will add the volume of the MP3 player.

4. MP3 PLAYER PLAY MODE

This is the transfer key for change the playing mode (ALL File Repeat # Single File Repeat.)

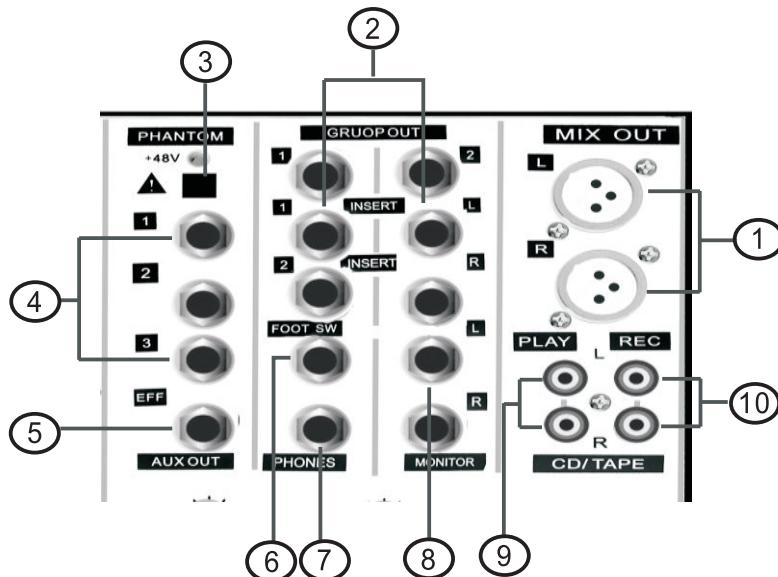


5. MP3 PLAY LED DISPLAY

Display the song which one is playing.

6. USB INPUT JACK

OUTPUT SECTION



1. MIX OUTPUT JACK (LEFT/ RIGHT)

In this product, the final confirmed sound can be send to main amplifier through XLR & 1/4 jack.

2. GROUP 1-2 (1-4) OUTPUT JACK

There are to be output with the volume control against inputting signal into GRPS 1-2 (1-4) board. And the GROUP with INSERT jack.

3. +48 PHANTOM POWER SWITCH

Push down/up this switch to turn on/off the phantom power supply for each mono channel.

Caution: Please don't use the unbalance MIC input Carson (1, 3 connect jack) while the phantom power is working.

4. AUX SENDS (AUX2-4 for difference model)

Each of the AUX output have a western output level control knob.

5. EFF JACK

This is the jack for the external effect return back to the mixer .

6. FOOT SWITCH

A FC5 foot switch (sold separately) can be connected to this jack and used to toggle the digital effects ON and OFF.

7. PHONES JACK

This jack connects to a stereo headphone.

8. MONITOR JACK

This is used for monitoring the master signal and individually monitoring each channel with L/R & G1-2 (1-4).

9. PLAY(TAPE/CD INPUT)JACK

This jack is to be connected with cassette deck/CD when playing back.

10. REC (TAPE/CD OUTPU)T JACK

This jack is to be connected with cassette deck/CD when recording the mixed output.

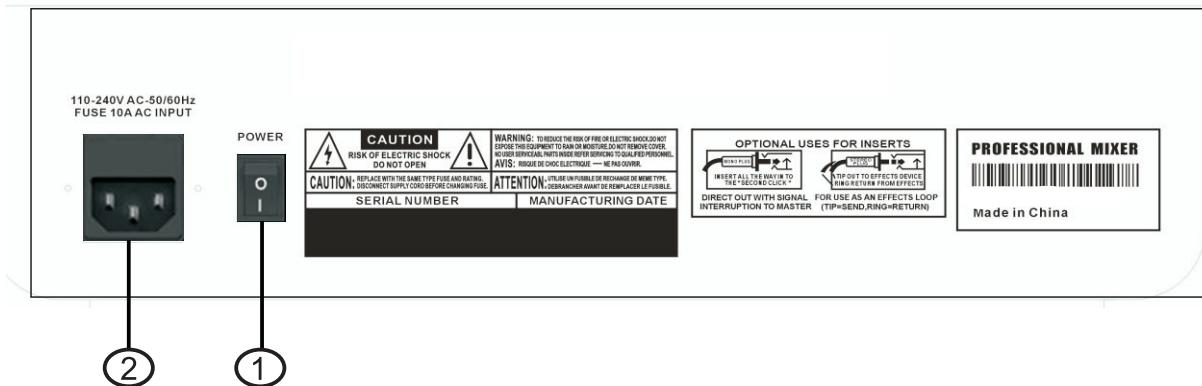
REAR VIEW SECTION

1. POWER SWITCH

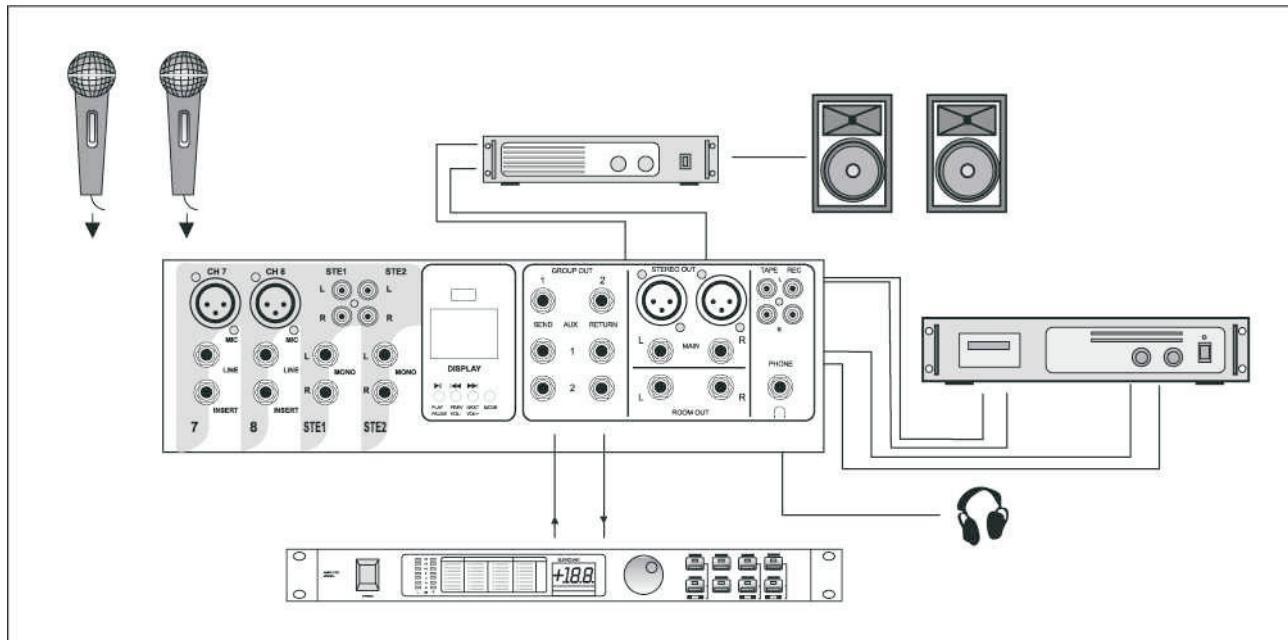
Push marked (1), when you want to operate. The power LED will be turned on when working.

2. POWER JACK

This is built-in connect the power supply jack.



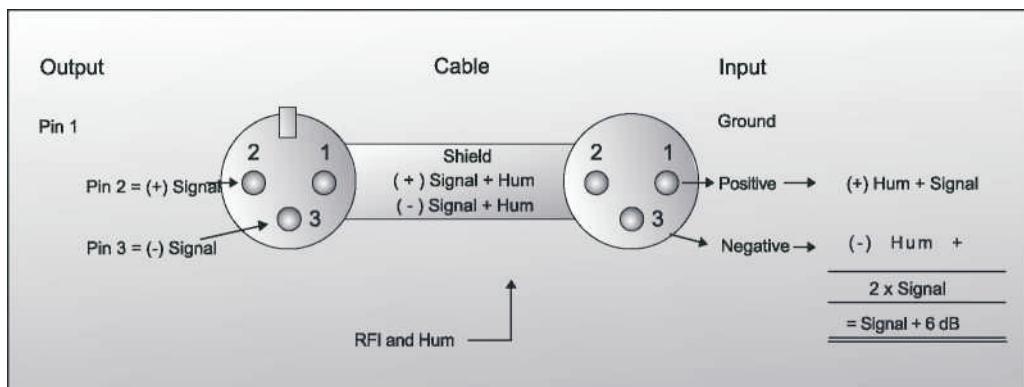
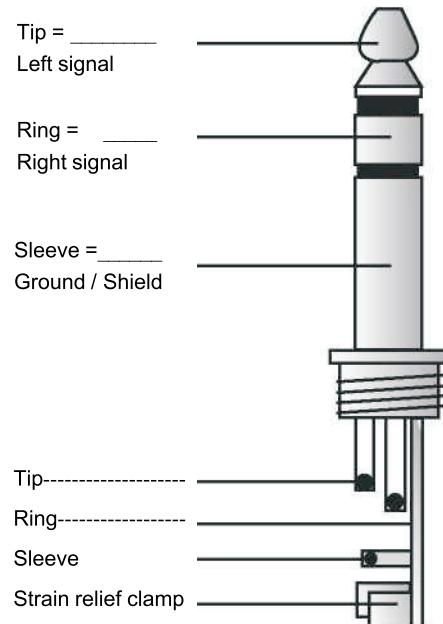
INSTALLATION



CONNECTIONS

You will need a lot of cables of cables for different purposes-see the following figures to make sure you have got the right ones. Unbalanced equipment may be connected to balanced inputs/outputs. Either use mono 1/4" jacks or connect ring and sleeve of TRS jacks.

Headphones



Compensation of interference with balanced connections

CONNECTIONS

Tip =
Signal

Tip = hot
(+ve)

Unbalanced use of mono 1/4" jack plugs

Sleeve =-----
Ground / Shield

Balanced use of stereo 1/4" jack plugs

Ring =—
cold (-ve)

Sleeve = Ground / Shield

For connection of balanced and unbalanced



Tip



Sleeve -----
Strain relief clamp



Tip

Ring —

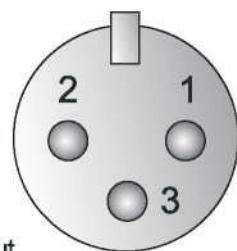
Sleeve



Strain relief clamp

plugs, ring and sleeve have to be bridged at
the stereo plug.

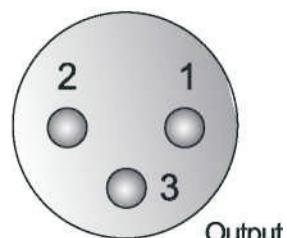
Balanced use with XLR connectors *Different plug types*



Input

1 = Ground / Shield
2 = hot (+ve)
3 = cold (-ve)

For unbalanced use pin 1 and pin 3 have to be bridged



Output

APPENDIX

Specifications

Mono Inputs

Mic Input	electronically balanced, discrete input configuration
Bandwidth	10 Hz to 60 kHz±3dB
Distortion (THD & N)	0.01% at +4dBu, 1 kHz, Bandwidth 80 kHz -129.5 dB, 150 Ohm source -117.3 dBqp, 150 Ohm source -132.0 dB u ,input shorted -122.0 dBqp, input shorted
Mic E.I.N (22 Hz-22 kHz)	+10dBto +60dB
TRIM range	
Line Input	electronically balanced,
Bandwidth	10 Hz to 60 kHz±3dB
Distortion (THD&N)	0.01% at +4 dB u , 1 kHz, Bandwidth 80 kHz +10 dB iito-40dB u
Line level range	
Equalization	
Hi Shelving	12 kHz +/-15dB
Mid Range	2.5 kHz +/-15dB
Lo Shelving	80 Hz +/-15dB

Stereo inputs

Line Input	unbalanced
Bandwidth	10 Hz to 55 kHz 3dB
Distortion (THD & N)	0.01% at +4 dBu, 1 kHz, bandwidth 80 kHz
Equalization	
Hi Shelving	12kHz +/-15dB
Mid bell	
Lo Shelving	100Hz-8KHz +/-15dB, Q fixed at 1 oct
Lo Cut (High Pass) filter	80 Hz +/-15 dB, Q fixed 2 oct -3dB at 75Hz, 18dB/oct

Master Mix section

Max Output	+22 dBu balanced
Aux Send Max Out	+22 dBu unbalanced +22 dBu unbalanced
Control Room Out	112 dB, all channels at Unity Gain
Signal-To-Noise Ratio	

Power supply

Mains Voltages	110-240 VAC, 50-60 Hz
----------------	-----------------------

Power

8CH	12CH	16CH	24CH
35W	40W	42W	50W

FCC Warning

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

Radiation Exposure Statement

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.