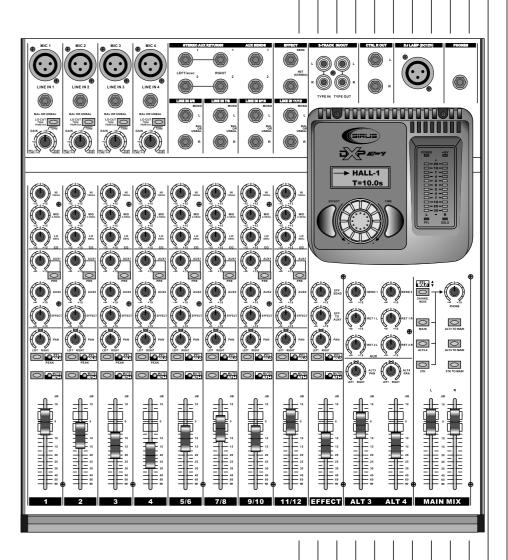
OPER	ATION	INSTRU	CTION
VI LIV	A V I		







DISTRIBUTED BY

24-BIT DSP EFFECT | MULTICHANNEL MIXER

SAFETY INSTRUCTIONS

1.SAFETY FIRST!

CAUTION: to reduce the risk of electric shock, do not remove bottom cover. No user-serviceable parts inside. refer servicing to qualified personnel

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

WATER AND ELECTRICITY DO NOT MIX, Keep this unit away from water. If water or other liquids are spilled on or into this unit, unplug the power cord immediately from the wall socket(with DRY HANDS) and get a qualified service technician to check it out before using.

Disconnect the equipment during storms to prevent damage.

Keep this unit away from heaters, radiators and other heat-producing devices.

There are no user serviceable parts inside the unit. Do not attempt to service this unit, Only a qualified service technician should open this unit for servicing. refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty.

2.THE SYMBOL





The lighting fash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

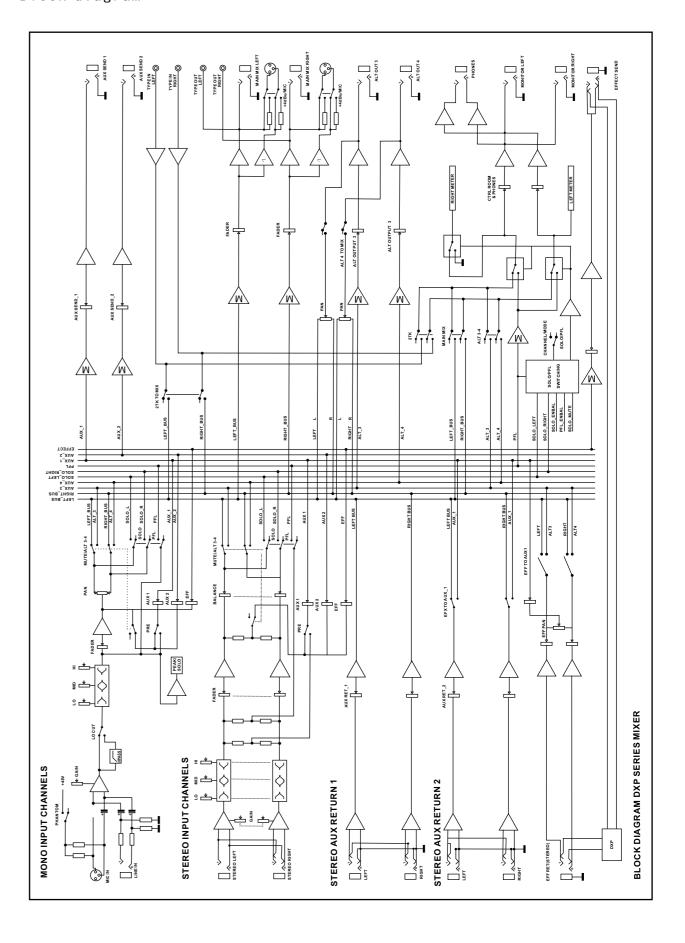
CAUTION: to reduce the risk of electric shock, do not remove cover(or back) no user-servicing to qualified service personnel.

3.KEEP IT CLEAN

Dust, dirt and debris can interfere with the performance of this product. Make a special effort to keep this unit away form dusty, dirty environments. Cover the unit when it is not in use. Dust it regularly with a soft, clean brush. Careful attention to these details will be time well spent and this product will reward you with years of trouble-free operation.

DXP SERIES MIXER

Block diagram



13

APPENDIX Front & back panels

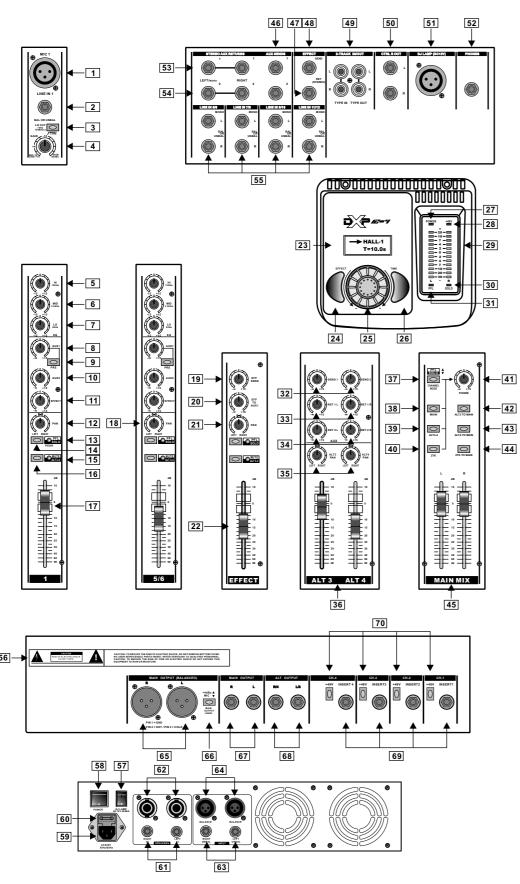


FIGURE 2 OUTPUT SECTION

1.INTRODUCTION

Congratulations. And thank you for purchasing our DXP series mixer. a built-in DSP processor module in them. so that the series mixer incredible versatility and audio performance. All functions will be numbered consistently throughout the manual, whether they are in the text or on an illustration. Before operating you new mixer, please take some times to read the manual, and familiarize with its control layout and functions. A few minutes spent in reading, it can help you avoid trouble in the set-up and operation about this high-quality audio products.

1.1Features:

- 1) This effect of inner DSP effect can compare with professional effector, it's high-tech can meet international standard.
- 2) With big LCD display screen easy operation.
- 3) Using SMT (Surface Mounting Technology) reliable quality.
- 4) Durable life high imported potentiometer
- 5)Percise 2 groups output
- 6) We have various choices: from 12 channels to 24 channels.

1.2Construction

1)Mono input channels

The series mixer has 4 models. Different model has different mono channels, The mono channel with a choice of balance MIC or line inputs and a insert interface of pre channel. It has +48V phantom power is supply, which insures low noise and superior transient response at all times.

2)Stereo input channels

A further 8 Line inputs on the mixer are configure as 4 input channels. It's perfect for multitrack tape returns, or for accepting outputs from MIDI and other electronic instruments.

3)Channel outputs

A high-quality true logarithmic 60mm fader feeds the Main Mix or ALT 3-4 bus via the channel Pan.

4)Aux sends

There are 3 Aux Send buses on the mixer, one of buses is Effect Send Bus.

5)Stereo Aux Return (stereo Line inputs)

The stereo Aux Returns sends to the main mix bus directly. The Aux Return may also be used for mixing in extra MIDI instrument etc.

6)Stereo Effect Return

The Stereo Effect Return and inner DSP processor is share with one channel. If you don't use it, you can use the stereo effect return and effect send together.

7) Main Mix Output

Main Mix Output level output via a pair of high-quality true-log 60mm stereo faders, and monitored by a pair of accurate 12-segment peak meters, surrounded by 4 status LEDs.

8)Meters

Pre channels of mixer have overload LEDs, while the L and R outputs have 12-segment peak meters. The L/R meters double up as mono PFL or stereo Solo meters. The meters should average around 0db during loud passage. If they read persistently higher, or are peaking above +10db, reduce either the main L/R faders and /or channel faders, or channel input gain. Perhaps the PFL sequence should be repeated.

In addition, your mixer provides an adjustable Phones output, a separate 2-track in-/output and the above-mentioned ALT 3-4 output.

1.2 Before you begin

1) PSU (Power Supply Unit)

Any amplifier circuit is limited in its transient response by the available current. Every mixer has numerous Line level operational amplifiers (op-amps) inside. When being driven hard, many desks begin to show signs of stress due to power supply limitations. Not so with the DXP series mixer. The sound will always stay clean and crisp right up to the operating limits of the op-amps themselves, thanks to our generous 70W external Power Supply Unit.

NOTE: Do not connect the PSU to the DXP series mixer while the PSU is connected to the mains supply. Connect switched-off desk and PSU first before you connect the PSU to the mains supply. Lastly switch [58] on desk by on the back panel.

2)Packing

Your DXP series mixer was carefully packed in the factory and the packaging was designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage which may have occurred in transit.

NOTE: If the unit is damaged, please do not return it to us, but notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted. Ship-ping claims must be made by the consignee.

3) Rack mounting the DXP series mixer

Enclosed in the shipping box you will find a rackmount kit(DXP12-4). If you want to make your DXP series mixer a rack mixer, losen the screws on the side panels and use them to fix the rack ears (note, that there is a left and a right one).

NOTE: Be sure that there is enough space around the unit for cooling and please do not place the DXP series mixer on high temperature devices such as power amplifiers etc. to avoid overheating.

NOTE: When switched on, parts of the desk and the power supply unit will become very warm, this is normal during operation.

2. MONO INPUT CHANNEL

Each channel is equipped with a balanced Line input 1/4" jack socket[2], an XLR Mic input[1] and a insert interface. Pre phantom power on the back panel [65].

Note: When using the Mic input please make sure nothing is connected to the same channel's Line input, and vice versa.

2.1 Input level setting

8. SPECIFICATIONS

Mono input channels

Mic input (electronically balanced, discete input configuration)

Frequency response 10HZ to 60KHz,+/-3dB

Distortion (THD&N) 0,007% at +4dBu,150 Ohm source

Mic E.I.N.(22 Hz-22 kHz) -129.5dBu.150 Ohm source

-117.3dBqp,150 Ohm source -132.0dBqp,input shorted

-122.0dBqp, input shorted

+10dB to +60dB Gain range

SNR 113.6dB **Lineinput** (electronically balanced)

Frequency response 10HZ to 60HZ,+/-3dB

Distortion (THD&N) 0.007% at +4dBu, 1KHZ, bandwidth 80KHZ

Sensitivity range +10dBu to -40dBu

Stereo input channels

Line input unbalanced

10HZ to 55HZ +/-3dB Frequency response

Distortion (THD&N) 0.007% at +4dBu, 1KHZ, bandwidth 80KHZ

Equalization

Hi Frequency 12KHZ +/-15dB 2.5HZ +/-15dB Mid Frequency Low Frequency 80HZ +/-15dB

Main Mix Section

Noise Bus noise, fader 0 dB, channels muted:

> -100.0 dBr(ref.: +4 dBu), fader 0 dB, all input channels assigned and set to Unity Gain: -88.5 dBr (ref.: +4 dBu)

Max output

+22 dBu balanced XLR,

+22 dBu unbalanced, 1/4" jacks

Off to Unity to+20 dB Aux Returns gain range

+22 dBu Aux Sends max out DJ Lamp 12VDC400mA

Inner DXP effect processor

A/D. D/A convertor 24 bit sample rate 48Khz Effect kinds 14

Power Supply

Mains voltage China 220V/50Hz

> 115V 60 Hz, Power Supply MXUL2 USA/Canada U.K./Australia 240V~, 50 Hz, Power Supply MXUK2 Europe 230V ~, 50 Hz, Power Supply MXEU2 Japan 100V ~, 60 Hz, Power Supply MXJP2

> > D)/D00 4

Physical

		DXP20-4a 565×400×200 mm	DXP24-4a 670×400×200 mm
9.9Kg	12.4Kg	13.9Kg	15.4Kg
13.5Kg	16Kg	17.5Kg	24Kg
DXP12-4	DXP16-4	DXP20-4	DXP24-4
355×400×10 0m	ım 460×400×100 mm	565×400×10 0mm	670×400×10 0mm
7. 9Kg	8. 2Kg	9. 8Kg	11. 3Kg
9. 9Kg	10. 9Kg	12. 3Kg	13. 8Kg
	355×400×200 m 9.9Kg 13.5Kg DXP12-4 355×400×10 0m 7.9Kg	13.5Kg 16Kg DXP12-4 DXP16-4 355×400×10 0mm 460×400×100 mm 7. 9Kg 8. 2Kg	355×400×200 mm 460×400×200 mm 565×400×200 mm 9.9 Kg 12.4 Kg 13.9 Kg 13.5 Kg 16 Kg 17.5 Kg DXP12-4 DXP16-4 DXP20-4 355×400×10 0mm 460×400×100 mm 7.9 Kg 8.2 Kg 9.8 Kg

[47]Effect Return

Stereo line input, Unbalanced 1/4" TRS sockets, wired tip = signal, sleeve = ground/screen.

[49] 2-Track in / out

RCA sockets for use with tape recorders etc., signal = Main Mix.

[50]Control Room outputs

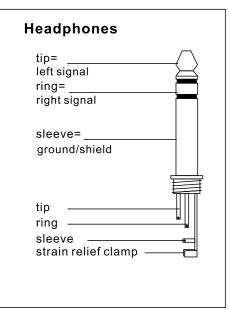
Will feed a pair of speakers (via an amp, of course unbalanced 1/4" TRS sockets, wired tip = signal, sleeve = ground/screen.

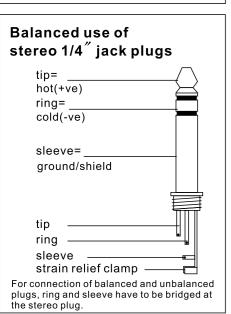
[51] DJ lamp

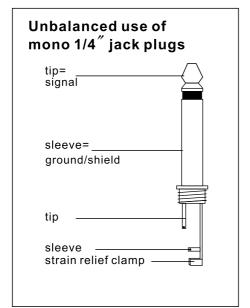
XLR socket, DC +12V, 1=ground, 2=-15V

[52] Phones outputs

Will feed headphones. 1/4" TRS socket, wired tip = left signal, ring = right signal, sleeve = ground/screen.







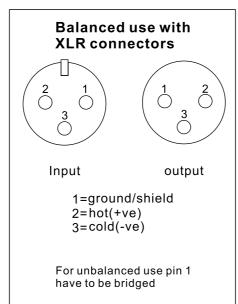


Fig. 1: Different plug types

Channel input level is determined by the Gain control [4]. Use Solo/PFL [14] to bring the channel input onto the left and right bargraph meters [29] respectively. This also sends the Solo/PFL-ed signal to the left and right speakers.

For level-setting (as opposed to localized listening) select the mono PFL bus rather than the post-fader (post-channel pan) stereo Solo bus (Channel Mode global switch [37] up).

In addition to switchable Solo/PFL metering, a channel LED [12] illuminates when a channel is going into overload. You do not want the overload light to come on except very intermittently during a take or a mix. If it does light persistently, reduce input gain. There is a steep Lo Cut (high pass) filter [3], slope at 18 dB/oct. at 75 Hz, for reducing floor rumble, explosives, woolly bottom end etc.

2.2 Equalizer

All mono input channels are fitted with three-band EQ and the above mentioned switchable Lo Cut filter for eliminating unwanted subsonics. All three bands have up to 15 dB of cut and boost, with a centre detent for "off". The upper [5], mid [6] and lower [7] shelving controls have their frequencies fixed at 12 kHz, 2.5 kHz and 80 Hz respectively.

2.3 Aux Sends

Both Aux Sends are mono and post-EQ. Aux Send 1 [8] can be taken from a point before or after the channel fader, i.e. pre or post by Pot. Aux Send 2 [10] is always wired post-fader.

For almost all FX send purposes, you will want Aux Sends to be post-fader, so that when a fader level is adjusted, any reverb send from that channel follows the fader. Otherwise, when the fader is pulled down, the reverb from that channel would still be audible. For cueing purposes, Aux Sends will usually be set pre-fader, i.e. independent of the channel fader and mute.

Most reverbs etc. sum internally the left and right inputs. The very few that don't may be driven in true stereo by using 2 Aux Sends.

There is +15dB of gain on every Aux Send. Such a high boost is usually only appropriate where the channel fader is set around -15 dB or lower. Here, an almost exclusively "wet" signal will be heard. In most consoles, such a wet mix requires the use of a pre-setting for the channel Aux Send, losing fader control. With the mixer you can have a virtually wet mix with fader control.

2.4 PAN CONTROL[12]

The pan control decide magnitude of the left and right main mix bus signal. They also decide magnitude of the ALT3-4 bus signal when the Mute/Alt3-4 key is used.

3. STEREO INPUT CHANNEL

Each stereo channel comes with two balanced Line level inputs on 1/4" TRS jacks[53][54], for left and right signals. When only the left input is connected, the channel operates in mono.

3.1 Input level setting

The stereo inputs are designed for any Line level signal. Most Line level sources such as MIDI instruments and FX units will have their own output level control. Those that don't, for example CD players, all have an output level within the scope of the DXPseries mixer. When the channel and master fader are set to unity gain the meters should read between

-4 and +7dB. Remember that there is 15 dB gain on both the channel as well as master fader.

3.2 Equalizer

The stereo input channels are fitted with three-band EQ. The equalizer is has exactly the same parameters as on the mono channels.(see 2.2)

3.3 Aux Sends

These are the same as for mono channels (see 2.3). Note that a mono sum is taken from the stereo input.

3.4 Pan[17]

When a channel is run in stereo, this control functions as a Balance control, determining the relative balance of the left and right channel signals being sent to the left and right Main Mix buses. For example, with the Balance control turned fully clockwise, only the right portion of the channel's stereo signal will be routed to the Main Mix.

Balance also determines the relative amount of left and right channel signals being sent to buses 3 and 4 respectively when Mute / Alt 3-4 is engaged.

4. THE INNER DSP EFFECT PROCESSOR

The inner DSP effect processor is a 24bit, 48k samping processor. The effect channel is separate.

4.1Effect Send[19]

The effect send knob send the mix effect signal to input terminal of the DSP effect processor. Or through the effect sendp[48] into the outer effect processor.

4.2Effect to Aux1[20]

The knob send the signal of inner or outer effect processor into AUX SEND1, commonly the signal be used monitor.

NOTE: when AUX SEND1 be used the second effects (outer effect), the Effect to Aux1 knob don't open.

4.3PAN [21]

The pan control decide magnitude of the left and right main mix bus signal. They also decide magnitude of the ALT3-4 bus's effect signal when the Mute/Alt3-4 key is used.

4.4Effect level fader[22]

A high-quality true logarithmic 60mm fader control the effect output level.

4.5Effect parameter control

The effect parameter control including a liquid crystal display[23], a select effects key[24], a select parameter key[26] and a adjust wheel[25].

The operation is:

[63] INPUT SOCKETS

Use for inputting audio signal of power amplifier with XLR connectors.

Mixer Output Power Amplifier (Input Sockets)

XLR: Left Channel Left Channel

XLR: Right Channel Right Track Channel

[64] INPUT SOCKETS

Use for inputting audio signal of power amplifier with 1/4" jack connectors.

Mixer Output Power Amplifier (Input Sockets)

1/4" jack: Left Channel Left Channel

1/4" jack: Right Channel Right Track Channel

[65] Main outputs (XLR)

Balanced XLR, wired pin 1 ground/screen, pin 2 hot (+ve), pin 3 cold (-ve). Maximum level is +28 dBu.

[66] Main output level switch

Level to the XLR Main outputs (+4 dB) will be lowered to "mic level", if you pressed [61]. E.g. you can route the lowered output signal directly to the Mic inputs of another console.

[67] Main output (TRS sockets)

Unbalanced 1/4" TRS sockets, wired tip = signal, sleeve = ground/screen.

[68] Alt 3-4 output

Unbalanced 1/4" TRS sockets, wired tip = signal, sleeve = ground/screen.

[69] channel output insert

Unbalanced 1/4" TRS sockets, wired tip = signal, sleeve = ground/screen.

[70] Phantom Power switch

When using capacitor mics, +48VDC can be switched globally on or off for all mic channels (also see "Mic inputs").

NOTE: Care should be taken not to plug mics into the console (orstagebox) while the Phantom Power is on. Also, mute the Monitor/PA speakers when turning Phantom Power on or off.

Let us now move onto the front panel of your DXP mixer.

[1]Mic inputs

Balanced XLR, wired pin 1 = ground/screen, 2 = hot (+ve), 3 = cold (-ve). Remember the Phantom Power switch [53].

[2]Line inputs

Balanced 1/4" TRS sockets, wired tip = hot (+ve), ring = cold (-ve), sleeve = ground/screen.

[55] Stereo Line input

Four stereo pairs. Balanced 1/4" TRS sockets, wired tip = hot (+ve), ring = cold (-ve), sleeve = ground/screen.

[53、54] Stereo Aux Returns 1/2

Two stereo pairs. Unbalanced 1/4" TRS sockets, wired tip=signal, sleeve = ground/screen.

[46] Aux Sends 1/2

Unbalanced 1/4" TRS sockets, wired tip = signal, sleeve = ground/screen.

[48]Effect Send

Unbalanced 1/4" TRS sockets, wired tip = signal, sleeve = ground/screen.

When recording to digital, it's a good idea to keep the recorder's peak meters below 0 dB. Most (not all, esp. samplers) read 0 dB with some headroom left. This is because, unlike with analogue, the onset of digital distortion is as sudden as it is horrible. If you really want to take your recording level to the limit (and fully exploit for instance 16-bit digital's 96 dB dynamic range), you'll have to do some calibrating. How to do it? Well, you could run a tone at 0 dB from the mixer and use that as your DAT or digital multitrack recorder reference. But your DAT or multitrack recorder may be way under its maximum input limit. Probably a better way to work out just how hard you can drive your recorder is incrementally increase the record level until the onset of digital distortion, subtract, say, 5 or 10 dB, and never exceed that level. Engage "peak hold" on your recorder before recording if you want to confirm that you haven't.

When recording to analogue, the tape machine's VU meters should show around +3dB on bass, but only around -10dB for hi hat. Although analogue distortion is more like compression at modest overload levels(often desirable on bottom end)higher frequencies cause saturation even at modest levels (resulting in an unpleasant "crunchiness"). Also, VU meters tend to progressively under-read above 1kHz, due to their sluggish response time. Hi-hats should read about -10 dB on a VU meter, as against 0 dB for a typical snare drum, and +3 dB or more for a kick drum.

Peak meters read more-or-less independent of frequency. Aim for 0 dB recording level for all signals.

6.7 Track sheet

When laying out channels for recording or mixing, try to be sensible. Keep tom-toms together, etc. Work out a scheme that suits you and stick to it. A common order is: kick drum, snare, hi-hat, tom-toms (as the audience sees the kit), cymbals (ditto), bass, guitars, keyboards, other instruments, vocals. From session to session and gig to gig you will soon know where you are without hardly ever having to look at your track-sheet.

7. CONNECTIONS

7.1 DXP series mixer connections

Follow us on a walk along the rear panel of your DXP mixer, starting left:

[56] WARNING AND CAUTION

Warning and caution on the mixer's rear panel.

[57] DJ LAMP POWER SWITCH

This switch applies the DJ lamp "ON" or "OFF".

[58] AMPLIFIER POWER SWITCH

This switch applied a power source of AC220~240V/50~60Hz to your mixer when it is turned on.

[59] AC POWER JACKS

AC 200-240V/ 50-60Hz.

[60] FUSE HOLDER

When a problem occurs on this appliance, the fuse will be cut oft power. To replace, use standard fuse as specified on this appliance.

[61] USE FOR 1/4 " JACK CONNECTOR

Use for connecting speakers $(4\Omega \sim 8\Omega)$ with 1/4" jack connectors.

[62] USE FOR SPEAKON

Use for connecting speakers $(4\Omega \sim 8\Omega)$ with speakon connectors.

First you setting effect kinds, press the select effect key[24], the arrow of display point to first row. Adjust the wheel[25] until select the effect of your need. Then select time parameter, you press the select parameter key[26], the arrow of display point to the second row, adjust the wheel[25] until select the time of your need. The parameter can be store forever.

5. MAIN SECTION

5.1 Aux Sends

Master Aux Send levels are determined by [32]. These controls have a centre detent indicating unity gain. Don't worry if your effects unit has no input gain control - you have a further +15 dB available from these outputs.

5.2 Stereo Aux Returns

There are two additional stereo Line inputs (Aux Returns 1 [33] and 2[34]) on your mixer. Them is permanently assigned to the Main Mix. If you connect a jack to the left socket only, them be used as mono channel.

5.3 Metering

Main Mix/Solo/PFL level is displayed on a pair of highly-accurate 12-segment bargraph peak meters [29]. Additional LEDs indicate Power On [27], +48 V Phantom Power present [28], and whether the mono Pre-Fader-Listen bus [31] or the stereo Solo bus [30] is engaged.

5.4 Channel mode

The Channel Mode switch [37] determines whether Solo-In-Place or Pre-Fader-Listen is assigned to the channel Solo buttons.

Solo

Solo is the preferred method for auditioning an isolated signal, or group of signals. Whenever a Solo button is pressed, all unselected channels are muted in the monitors. Stereo panning is maintained. The Solo bus is derived from the output of the channel Pans, Aux Sends and stereo Line inputs. It is always post-fader.

PFL

Pressing [31] once disengages the stereo Solo bus, and replaces it with a separate mono PFL (Pre-Fader-Listen) bus. All "Solo" signals are reconfigured to PFL. PFL should always be used for gain-setting (see also the essential Section 6 "SETTING UP").

5.5 2-TRACK INPUT AND OUTPUT

1)Input

A 2-Track input, on RCA phono jacks [49], provides easy connection to DAT and other professional or semi-professional audio equipment.

The 2-Track input is primarily for auditioning mix playback from tape. [40] "2 TK TO CONTROL ROOM" routes this signal to the monitors and/or phones.

However, it can also be routed to the Main Mix via [38] "2 TK TO MIX" and will act as an additional input for tape playback, MIDI instruments etc. Here [40] should be disengaged, or you will be listening to the 2-Track signal twice over!

With you pressed [38], have another stereo Line input available to the mix.

2)Output

The Main Mix output is delivered by XLR connectors and TRS jacks on the back panel as well as by RCA phono jacks on the front. Level is ultimately determined by a pair of precision faders [45].

Although the 2-Track output is primarily designed for recording, it can also be used as a PA feed, or as a sent signal to the input of your sampler. Pressing [61] on the rear panel will lower the level at the XLR connectors by 20 dB.

5.6 Monitoring

Though most of you will want to audition the Main Mix most of the time [38] there are exceptions. These include the Alt 3-4 bus [39] and 2-Track playback [40].

A single volume control[41] sends the level to the headphones and main monitors.

If you want to audition external sources very often, you could connect a hi-fi pre-amp (or tape out) to your 2-Track input, allowing you to monitor a variety of extra sources such as vinvl. cassette. CD etc.

5.7 Alt 3-4 output

pressed the Mute button [16], the channel's output will be routed to the Alt 3-4 output instead of the Main Mix.

Level to the Alt 3-4 outputs (TRS jacks on the back panel) is adjusted by [39]. Use [39] to have the Signal PFL-ed([38]and[40]up).

5.8Alt3 PAN, Alt4 PAN[35]

The pan control decide magnitude of the left and right main mix bus signal through the ALT3-4 bus. Clockwise the knob, the signal of ALT3-4's right channel become bigger. Anticlockwise the knob, the signal become lower.

5.9 ALT3 TO MAIN MIX[42], ALT4 TO MAIN MIX[43]

You pressed the two keys, the signal of through the PAN be send to the MAIN MIX bus.

6. SETTING UP

6.1 Desk normalization

All board settings should be set to the normal default condition before or after every session. Usually faders are set to zero (minus infinity), EQ's set flat and switched out, trimpots and channel Aux Sends turned fully counter-clockwise etc. Many controls have a natural initial setting. For EQ cut and boost this is centre position. However, some settings, such as selecting pre or post for channel Aux Sends, will depend on the operating environment (e.g. studio or live), or on a particular engineer's preferred way of working.

6.2 Selecting inputs

1) Mono channels accept Mic or line inputs. If you are using the Mic input, make sure nothing is connected to the Line input (and vice-versa).

NOTE: The Mic inputs are more sensitive than the Line inputs. Do not connect miss with Phantom Power switched on. Never use unbalanced MIC. cables with the Phantom Power switched on ever!!! Shorting 48V to earth can cause serious damage.

- 2) Stereo channels accept -10dBu or +4dBu Line level signals. Any stereo channel can be run in mono simply by connecting into the left Jack socket only. These channels are suitable for a variety of line-level sources including MIDI instruments and Tape Returns from multitrack.
- 3) Stereo Line inputs are primarily designed for returning effects units, though these too may be given over to multitrack returns or MIDI instrument outputs.

6.3 Initializing channels for gain setting

- 1) Set Gain to minimum and all Aux Sends to off (fully counter-clockwise).
- 2) Set EQ to balance place.
- 3) Where applicable, set Lo Cut switch [3] ON for most miss, OFF for signals with desired very low frequency content.
- 4) Set channel mode to PFL[37].
- 5) Pressed Solo/PFL [14] switch.

6.4 Auditioning a signal and setting up a channel

- 1)Provide an input signal, for example roll the tape. There should also be some activity at the main L/R bargraph meters [28], indicating the PFL level.
- 2)For Mic/Line inputs: Adjust the Gain control [4] until transient peaks are regularly hitting +6dB. Continuous signals should not exceed 0dB.
- 3) For stereo Line inputs: Adjust the source's output Gain until transients are regularly hitting +6dB. Continuous signals should not exceed 0dB.
- 4)If EQ is used, repeat steps 1-3.
- 5) If an insert is used to patch in a compressor, gate, EQ etc., use the outboard processor's bypass or effect off switch to A/B monitor the effect. If it does not have a bypass switch or equivalent, you will have to keep connecting and disconnecting the device until you complete the following procedure: Adjust the processor's output level so that effected and bypassed signals are of comparable level, i.e. "unity" gain.
- 6)Solo/PFL switch [13] UP. Move onto next channel.

6.5 Multitrack initialization

Set up the multitrack so that any track in "record ready" condition has its input monitored when the tape is stationary. Place all tracks to be recorded into "record ready" status. (Once a recording has been made, these tracks should automatically switch to tape playback). Check that the input levels to each track are optimized before recording commences,

6.6 Recording levels