Mixer Console

Quick Start Guide

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Foreword description

The purpose of this section is to ensure that the user is able to use the product correctly through this manual in order to avoid danger in operation or property damage. Before using this product, please read the product manual carefully and keep it for future reference.

Information access

Visit our website (www.hikvision.com) for manuals, application tools and development materials.

Overview

This manual applies to the mixing console DS-QAPMCR8-A

This manual describes how to use the various functions of the console and guides you through the installation and use of the console.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
Note	Provides additional information to emphasize or supplement important points of the main text.
Caution	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
Danger	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Precautions for Safe Use

Danger

- Terminal equipment with this symbol carries a strong current and poses a risk of electric shock. Use only high quality professional speaker cables with ¼'' TS or twist-lock plugs. All installations or adjustments must be carried out by qualified professionals. Please use the power adapter provided by the regular manufacturer, please refer to the product data sheet for the specific requirements of the power adapter.

- This symbol alerts you to the presence of uninsulated hazardous voltage inside the product and the risk of electric shock.
- This symbol reminds you to consult the enclosed important instructions for use and maintenance. Please read the relevant manuals.
- To avoid the risk of electric shock, do not open the top cover (or back flap). There are no user-serviceable parts in the unit. Refer servicing matters to qualified professionals.
- To avoid the risk of fire or electric shock, do not expose this appliance to rain or moisture. The unit must not be exposed to liquid splashes, nor should containers of liquids be placed on it, such as vases.
- The service instructions are intended for qualified service professionals only. To avoid the risk of electric shock, do not carry out any repairs other than those mentioned in the operating instructions. All repairs must be carried out by a qualified professional.

 **Caution**

- Please read these instructions.
- Please keep these instructions in a safe place.
- Please pay attention to all warnings.
- Please follow all instructions.
- Do not use this product near water.
- Please clean this product with a dry cloth.
- Do not block vents. Follow the manufacturer's instructions when installing this product.
- Do not install this product near heat sources such as radiators, stoves, or other devices that generate heat (including amplifiers).
- Do not remove the safety device of the polarised or grounding plug. The grounding plug is made up of two plug contacts and a grounding head. If the supplied plug does not fit your socket, get an electrician to replace it with a suitable socket!
- Protect power cords from being trampled or punctured, paying particular attention to power plugs, multi-purpose sockets and equipment connections.
- Please use only factory-specified ancillary equipment and accessories
- Use only the trolleys, shelves, tripods, stands and tables specified by the manufacturer or sold with the goods. If trolleys are used to move equipment, please take care to position the equipment safely to avoid injury from tipping over the trolley and equipment.
- Unplug the unit from the power supply in case of lightning and thunder or when the unit is not used for a long period of time.
- All repairs must be carried out by qualified service personnel. Repairs are required when equipment has been damaged, such as when the power cord or plug has been damaged, when liquids or foreign objects have fallen into the equipment, when the equipment has

been exposed to rain or moisture, when the equipment is not functioning properly, or when the equipment has been dropped.

- This equipment must be connected to the power supply with grounding protection.
- If the mains plug or appliance coupler is used as a disconnecting device, it shall be ensured that they are readily accessible at all times.
- This product is only suitable for areas up to 2000 metres above sea level, this product is only suitable for non-tropical climatic conditions.

Note

Requirements for the quality of installation and maintenance personnel

- Qualification or experience in the installation and maintenance of mixing consoles and qualification to carry out related work, in addition to the knowledge and operational skills listed below.
- -Possesses basic knowledge and installation skills of mixing console systems and components.
- -Possess basic knowledge and skills in low voltage wiring and wiring low voltage electronic circuits.
- Basic knowledge and skills in network security and the ability to read and understand the contents of this manual。

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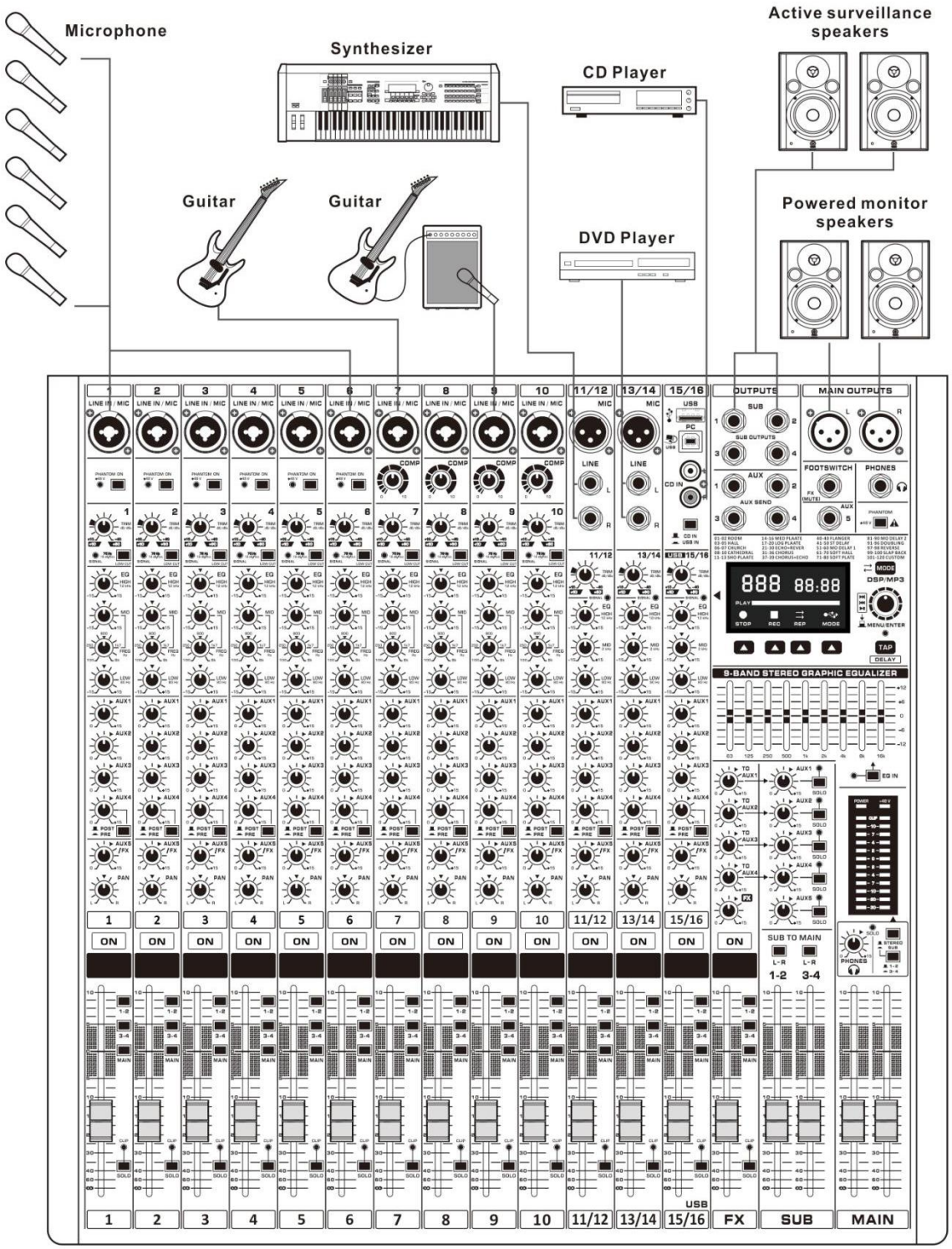
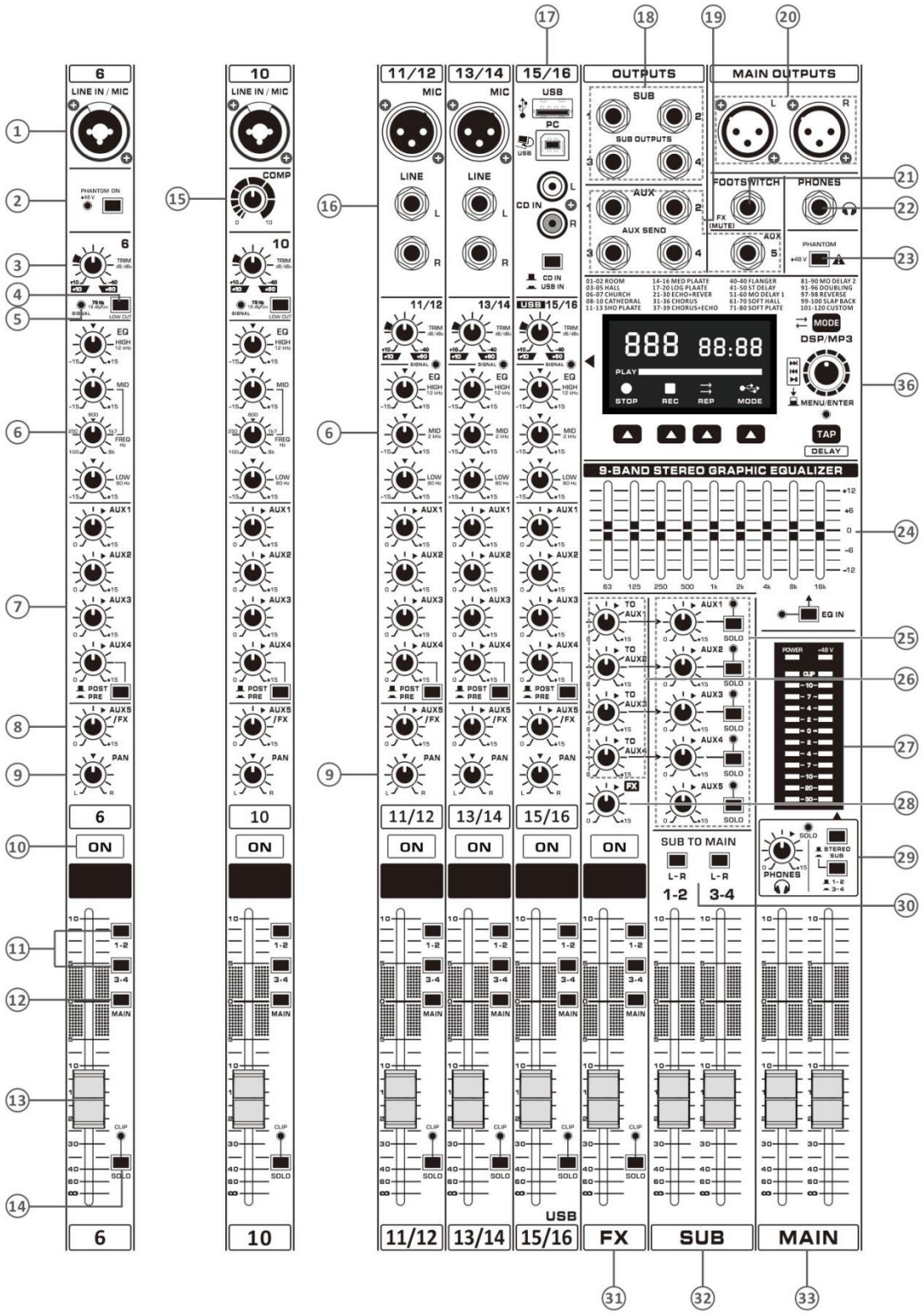


Chapter 2 Description of Functional Usage



1. MIC/LINE input jacks

It is possible to connect balanced XLR-type microphone input jacks, and unbalanced TRS headphone-type instrument input jacks.

2. 48V phantom power switch

The PHANTOM switch activates phantom power to the XLR jacks of the input channels, using condenser microphones requires phantom power +48 V. The LED glows to indicate that phantom power is on. Dynamic microphones can usually still be used, as long as they are balanced. Ask the microphone manufacturer if you are unsure.

3. TRIM knob

Adjusts the input signal level. For the best balance between signal-to-noise ratio and dynamic range, adjust the gain so that the CLIP indicator lights occasionally and briefly on the highest input transient.MIC Input Adjustment Range +10 to +60dB.LINE Input Sensitivity Adjustment Range +10 to -40dB.

4. LOW OUT switch

The console's mono channel is also equipped with a steep-edged low-cut filter, which you can use to eliminate unwanted portions of the low-frequency signal, attenuating frequencies below 75Hz at a slope of 18dB/octave.

5. SIGNAL LED

Reach the optimal working level, at this time the LED light emitting.

6. Equaliser

All single input channels are equipped with a 3-band tone adjustment knob with a semi-parametric midrange. Each band can be raised/lowered by up to 15 dB and the equaliser has no effect in the middle position. The high and low frequency bands are available at 12 kHz and 80 Hz. For the mid-frequency range tuner there is a semi-parametric type of tone adjustment between 100 Hz and 8 kHz. The tone is raised/lowered with the MID adjustment knob and the frequency is adjusted with the FREQ adjustment knob.

7. AUX Knob

The AUX knob adjusts the level of the pre-fader signal (before the faders are adjusted).The PRE switch on the AUX4 can be used to select the AUX4.Pressing the PRE switch sends the pre-fader (signal before it is adjusted by the faders), and flicking the POST switch sends the post-fader (signal after it has been adjusted by the faders) signal to the AUX bus.

8. FX Knob

This FX knob is used to adjust the signal going to the FX bus after sending the fader.

9. PAN knob

The PAN (Positioning Acoustic Pan) knob adjustment is used to determine the position of the channel's signal in the stereo field. If grouping is used, you can assign the signal to SUB1 (with the PAN knob turned to the far left) or SUB2 (with the knob turned to the far right).

The PAN (Balance) knob is equivalent to the PAN knob in mono, and determines the relative ratio of the L-R input signals before they are sent to the left and right (MAIN MIX) master mix buses (each odd and even).

10. ON button

When this switch is open, the signal of the corresponding channel can be sent to the bus, and the switch will light up when it is open. When this switch is off, the corresponding signal input will not be sent to the AUX bus or SUB bus. Even if the [ON] switch is turned off, the SOLO signals from each channel can be monitored via the [PHONES] socket.

11. 1/2/3-4 buttons

When this switch is turned on, the signal of the corresponding channel can be sent to the SUB bus.

12. MAIN button

When this switch is on, it sends the signal from the corresponding channel to the stereo (MAIN MIX) main mix buses.

13. Fader Channel

Used to adjust the level of the channel signals. Adjust the balance between multiple channels with these controllers.

14. SOLO button and CLIP light

When this switch is switched on, the signal in front of the corresponding channel fader is monitored and the input level of the corresponding channel in front of the fader is displayed on the level meter. The corresponding LED glows when the SOLO switch is turned on.

If the CLIP LED glows, the input level is too high!

15. COMP knob

Adjusts the amount of effect of the compression applied to the channel. When the [COMP] knob is turned to the right, the threshold, ratio and output gain are adjusted simultaneously.

Threshold:+22dBu to -8dBu Proportion: 1:1 to 4:1 Output gain: 0dB to+7dB
Start time: approximately 25ms Release time: approximately 300ms

16. MIC/LINE stereo input
Can connect balanced XLR microphone input jack and unbalanced TRS headphone stereo input jack.

17. USB/PC/RCA input

The USB interface can be inserted into a USB flash drive to play music/recordings or connected to a computer with a sound card to play music/recordings.

RCA type unbalanced stereo input interface.

USB and RCA can't be used together Switch between MP3 IN or CD IN with the push of a button.

18. SUB 1/2/3/4 Group Output Socket

Inputs for connecting a multitrack recorder, external mixing console or other equipment.

19. AUX 1/2/3/4/5 SEND socket

Connects to external effects equipment or stage/studio monitors.

20. MAIN OUT（L，R）Main Output Socket

Stereo outputs for mixing consoles are available. The stereo outputs of the left and right channels are mixed for use by the stage return amplifier.

For example, you can use these jacks to connect to a power amplifier driving the main speakers.

21. FOOTSWITCH - Foot switch socket

A foots witch can be connected to control the effector outputs off or on.

22. PHONES Headphone monitor jack

A pair of stereo headphones can be connected to monitor the output signal.

23. 48V Phantom main power button

The red 48V LED lights up when phantom power is applied. Condenser microphones require phantom power.

24. Equaliser

Equipped with a 9-band graphic equaliser, (the graphic equaliser only has an effect on the main outputs). The EQ is switched on via the EQ IN button and you can use it to adjust the tone to the specific room space. At position "0", no frequency response is processed. To increase the frequency range by one, push the corresponding fader up or down.

25. AUX knob

AUX knob to adjust AUX output volume.

26. TO AUX knob

TO AUX knob to adjust the effect signal of the AUX setting effects processor.

27. Level indicator

The level meter LEDs show the main output and monitor signal levels, and the CLIP indicator lights up when the output signal reaches the clipping level.

28. FX knob

FX knob sends to built-in effects processor.

29. Monitoring control

The PHONES knob adjusts the monitor output volume. The monitor outputs are selected by buttons to select MAIN or SUB outputs, and by buttons to select SUB1/2-3/4 outputs.

30. SUB TO MAIN button

When this switch is turned on, the LEFT or RIGHT signal from the SUB is assigned to the (MAIN MIX) master mix.

31. FX fader

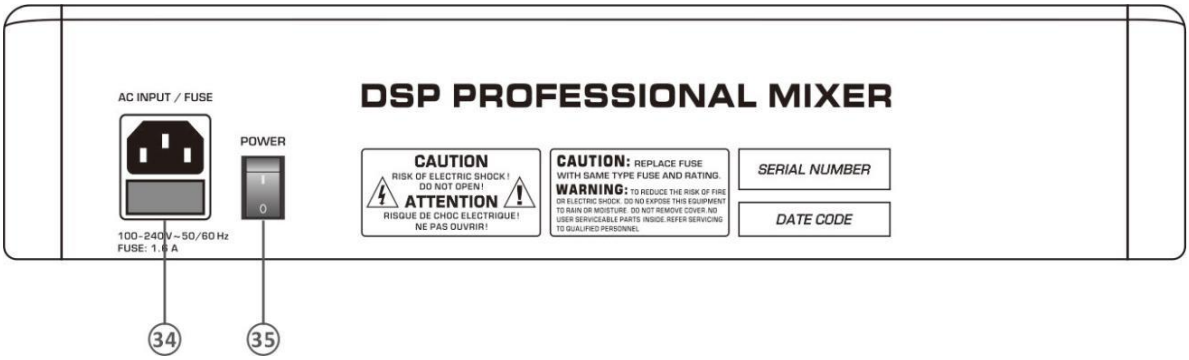
FX Fader Adjustment (MAIN MIX) Main Mix sets the effects signal of the effects processor.

32. SUB fader

SUB fader use to adjust SUB output volume.

33. MAIN fader

MAIN fader adjusts the volume of the main output.



34. Fuse holder/IEC socket

The power connection is made through an IEC socket. It complies with the necessary safety regulations. There is also a suitable power cord within the scope of supply. When replacing fuses, it is essential to use the same model

35. power switch

Start the mixing console with the POWER switch. When connecting to the power grid, the POWER switch should be in the "off" position.

Please note: When the POWER switch is turned off, it does not completely disconnect the machine from the power grid. Therefore, when the device is not in use for a long time, please unplug the power cord from the socket.
Frequent and rapid opening and closing of devices can cause damage. After turning off the power, wait for at least 6 seconds before turning it back on.

Chapter 3 Effect Settings and Modulation Procedures

Effects and MP3 function operation

Two independently controllable, identically configured 32-bit stereo effect units are provided - FX1 and FX2. Each unit offers 100 program presets, which are selected by using the Up/Down buttons. The preset parameters can be edited and stored as user presets (101-120), as detailed in Figure 5. 100 presets are divided into groups according to their different effect structures. The programs within each preset group are listed in order, where the higher the number, the stronger the type of FX provided.Presets 1-20 provide high-quality rever beration effect programs that are equally suitable for live performance, studio or home recording applications. Program numbers 21-40 offer a mix of echo + reverb and chorus effect types, while numbers 41-60 offer different delav effects. The last group from 61-100 offers different doubling effect presets as well as special delay and reverb programs. During initialization of the FX unit (when the power is turned on), preset 05 (BRIGHT HALL, LARGE HALL 3) is selected for FX1, while the FX2 unit is set to preset 55 (MONO DELAY, 230ms 40%). Both effects are equally suitable for live performance and recording applications. This is a factory preset configuration that can be changed at any time.

3.1 Menu mode

（3.1.1） Press the MENU/ENTER rotary encoder in effect mode to enter menu mode. When entering the menu mode, the main menu is displayed.

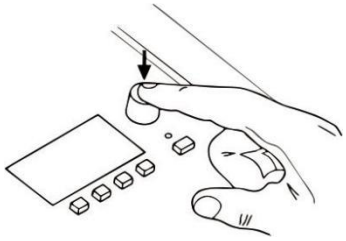


Figure (3.1.1): Pressing MENU/ENTER rotates the encoder into menu mode.

（3.1.2） In menu mode, the MENU/ENTER rotary encoder and the four function keys below the display are used for navigation and parameter selection and editing. Move the MENU/ENTER rotary encoder to the left or right to move the cursor in the menu. Press the MENU/ENTER rotary encoder to select or execute the highlighted menu item. If the menu item is highlighted, the corresponding dialog box opens. If a parameter is highlighted, the value is displayed in reverse type and can be edited by rotating the MENU/ENTER rotary encoder. Press the MENU/ENTER rotary encoder again to apply the edited parameter value. The line at the bottom of the display indicates the function of the four function keys. The following table descriptions illustrate some of the functions available in the menu dialog box.

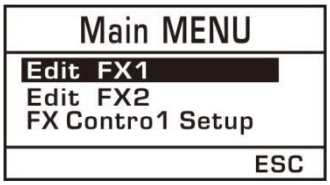
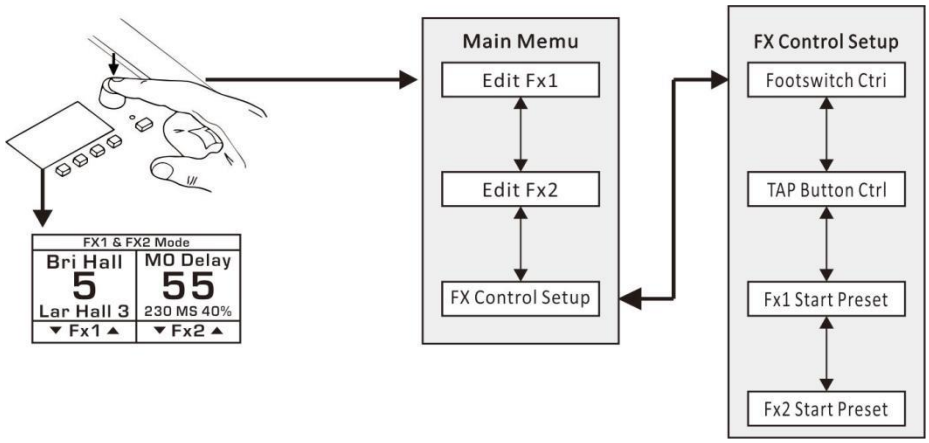


Figure (3.1.2):Menu mode main menu

(3.1.3) Function Keys Function Description

BACK	Back to previous menu level.
ESC	Exit all editing in the dialog and return to effect mode.
◀ or ▶	Move the cursor to the left or right.
SAVE	Open the FX User Preset list to store the edited effect as a user preset.
OK	Confirmation of access, e.g. when editing a user preset name.

3.2 menu structure



3.3 Edit FX1/FX2

(3.3.1) This dialog allows editing of the effect parameters of the effector FX1 or FX2. The available parameters will vary depending on the type of effect, as detailed in Figure 4.4. In addition, customized names can be assigned to the editing effects, and they can be stored as user presets. Up to 20 user presets can be created.

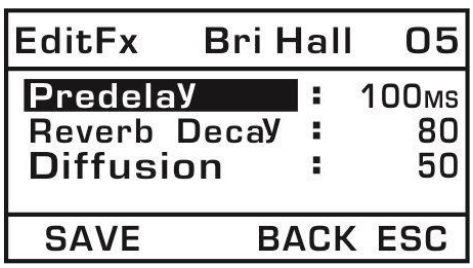


Figure (3.3.1): Edit FX1 dialog box

(3.3.2) Turn the MENU/ENTER rotary encoder to highlight an entry in the left column of the Edit FX menu. Press the rotary encoder MENU/ENTER key to select the corresponding value in the right column. Now turn the MENU/ENTER rotary encoder to edit the value. Press the rotary encoder MENU/ENTER again to return to the left column. Press the SAVE function key to save the edited effect as a user preset.The FX User Preset dialog box appears。

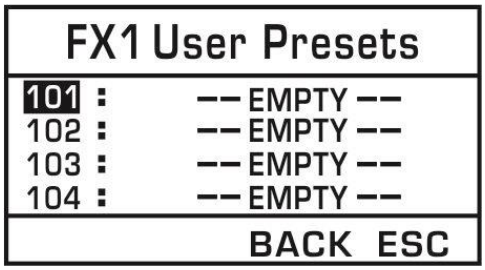


Figure (3.3.2):FX User Preset dialog box

(3.3.3) Turn the MENU/ENTER rotary encoder to select where the user's preset editing effects should be stored. Pressing the MENU/ENTER rotary encoder opens the Set FX Name dialog box.

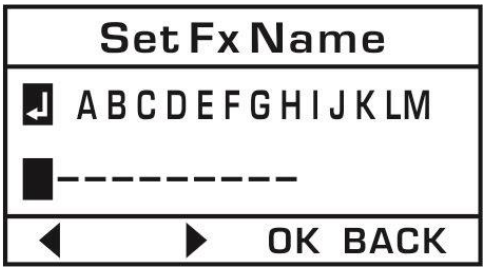


Figure (3.3.3):Set FX Name dialog box

(3.3.4) This dialog box is used to change the description information of the user preset. Turn the MENU/ENTER rotary encoder left or right to edit the highlighted character. Press the MENU/ENTER rotary encoder to select the desired symbol and move the cursor to the next character. Press◄ or ► function key to move the cursor left or right. Select the “ ” symbol or press the OK function key to exit name editing. Press the BACK function key to return to the menu.

3.4 FX control settings

(3.4.1) This dialog is used to configure the effect FX1 or FX2, and in addition, this dialog is used to select the default effect when the effect is turned on.

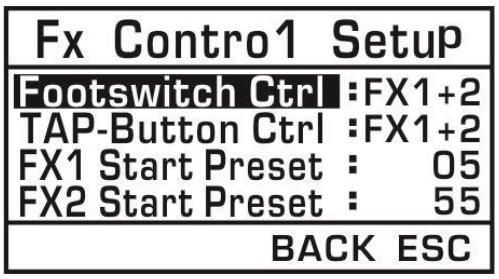


Figure (3.4.1):FX Control Setting dialog box

(3.4.2) FX control setup parameters

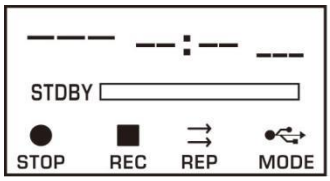
parameters	Description
Foot switch Ctrl	Select FX1, FX2 or FX1+2 to control one or two effects using the foot switch.
TAP-Button Ctrl	Select FX1, FX2 or FX1+2 and use the TAP button to control the delay time of one or both effects.
FX1 Start Preset	Effector FX1, selects the default effect when the effector is turned on.
FX2 Start Preset	Effector FX2, selects the default effect when the effector is on.

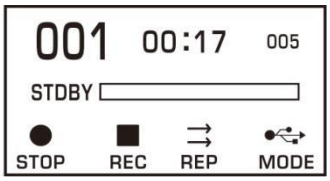
(3.4.3) Turn the MENU/ENTER rotary encoder to highlight the entry in the left column of the FX Control Setup dialog box. Press the rotary encoder MENU/ENTER key to select the corresponding value in the right column, then rotate the MENU/ENTER rotary encoder to edit the value and press the MENU/ENTER rotary encoder again to apply it to the new value.The entries in the FX Control Setup dialog box are shown in the table (Figure 4.4). Press the BACK function key to return to the menu. Press the ESC function key to return to effect mode.

（3.4.4） Effect Presets

No.	Effect group	Description	Suitable for use
01–10	Bright Hall	Bright reverb, concert hall, church, cathedral	Vocals, Horn, Strings
11–20	Bright Plate	Bright plate, no audible reflections	Piano, Guitar, Drums, Vocals
21–30	Echo+Reverb	Bright echo/reverb mix	Specially for Live vocals, strings, horns
31–33	Chorus	Light chorus	Piano, Guitar, Bass, Rhodes, Strings
34–36		Deep chorus	Organ, Piano, Guitar, Bass, Rhodes, Strings
37–39	Chorus+Echo	Deep chorus with fading echo	Organ, Guitar , Strings
40	Flanger	Real late sixties jet flanger	Drums, Prcussion, Bass, Strings, Vocals
41–50	Stero Delay	L/R echoes	Combined with a reverb effect well suited for vocals, horns, strings
51–60	Mono Delay	Centered echoes, slowly fading (40% feedback)	Combined with a reverb effect well suited for vocals, horns, strings
61–70	Soft Hall	Extremely smooth reverb, concert hall, church, cathedral	Vocals, Horns, Strings, Home recording
71–80	Soft Plate	Smooth plate, no audible reflections	Piano, Guitar, Drums, Vocals, Home recording
81–90	Mono Delay	Centered echoes, vastly fading (20% feedback)	Fast fading slap back echoes for vocals, percussion. Combined with a reverb effect well suited for vocals, horns, strings
91–92	Doubling	Doubling effect without coloration	Vocals, Horns,Strings,Organ
93–96		Doubling effects	Snare drum, Kick drum
97–98	Reverse	Reverse reverb	Snare drum, Kick drum
99	Slap-Back	Fast slap back echo without repeats	Vocals, Kick drum, Snare drum
100		Slow slap back echo without repeats	Vocals, Kick drum, Snare drum

3.5 MP3 player operation





(3.5.1) Button Description: (STOP) Stop Playback, (REC) Record Mode, (REP) Sequence and Loop Playback Conversion, (MODE) USB Flash Disk Playback and Bluetooth Switching.

(3.5.2) Switching interface operation between DSP and MP3 via the MODE button.

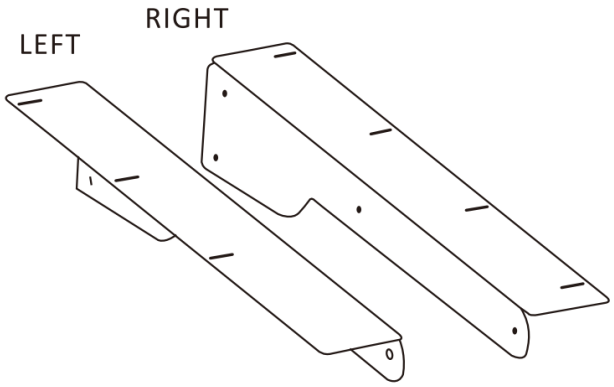
(3.5.3) In the MP3 display interface insert a USB flash drive to read the track, press the rotary encoder MENU/ENTER key to play and pause, the rotary encoder to switch up/down the track.

(3.5.4) Recording operation and playback, press the REC button to enter the start recording mode, during recording you can press the rotary encoder MENU/ENTER button to pause recording, recording is complete, press the STOP button to stop recording, enter the recording folder to play back the currently recorded file, you can also turn the MENU/ENTER rotary encoder to select the recording file track to play back, long-press the REC button to quit Recording switch to MP3 playback.

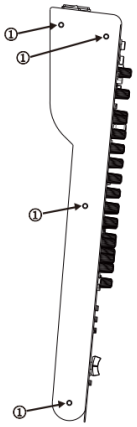
3.6 Installation Instructions

(3.6.1) Cabinet Installation

This console requires a minimum of 12U of cabinet space, space is calculated to include cable connections. Cabinet dimensions: 10U approx. 445mm 11U approx. 489mm 12U approx. 533mm 14U approx. 623mm In the packaging of the console you will find two assembly cabinet side panels, which can be mounted on both sides of the console. Before attaching the cabinet side panels to the console, first remove the screws from the original left and right side panels. Then, attach the two cabinet side panels with the screws provided with the cabinet side panels. Please note that there is a distinction between left and right side panels. After installation, mount the mixer in a common 12U rack. Please maintain sufficient air circulation at all times to avoid overheating of the unit.

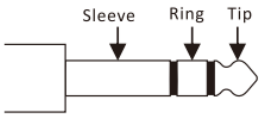
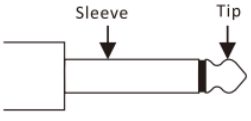


Rack fittings



①Side plate screws KM4X6mm

(3.6.2) List of Sockets and Plugs

MIC/LINE, MIIC STEREO OUT	Pin 1: Ground Pin 2: Hot (+) Pin 3: cold (-)	 IN PUT OUT PUT
MIC/LINE, AUXSEND SUB OUT, MONO OUT STEREO OUT	Tip: hot (+) Ring: cold (-) Sleeve: Ground	
PHONES	Tip: L Ring: R Sleeve: Ground	TRS headphone connection plug
LINE (STEREO IN PUT CHANNEL)	Tip:hot (+) Sleeve Ground	
EFFECT MUTE FOOT SWITCH	Tip: trigger Sleeve: Ground	TS PHONE type plug

Chapter 4 Technical parameters

Microphone input (MIC preamplifier)	
Type	XLR, balanced, Discrete input circuit
MIC E. I. N(20Hz-20KHz)	
@0Ω Source impedance	-134dB/135.7dB A-Weighted
@50Ω Source impedance	-131dB/133.3dB A-Weighted
@150Ω Source impedance	-129dB/130.5dB A-Weighted
Frequency response	< 10Hz-150KHz (-1dB) < 10Hz-200KHz (-3dB)
Gain range	+10to+60dB
Maximum input level	+12dBu@+10dB gain
Impedance	About 2.6KΩbalanced
Signal-to-noise ratio	110dB/112dBA-Weighted (0dBuIn@+22dBgain)
Distortion (total harmonic distortion + noise)	0.005%/0.004%A-Weighted
Tpye	6. 3-mm-stereo channel, unbalanced
Impendance	About 20 KΩ unbalanced 10 KΩ unbalanced
Gain range	+10 to -40
Maximum input level	+22dBu@0dB gain
Signal attenuation (crosstalk attenuation)	
Main output fader off	90dB
Channel mute	89dB
Channel fader off	89dB
Frequency response	
Microphone input to main output	
< 10Hz-90KHz	+0dB/-1dB
< 10Hz-160KHz	+0dB/-3dB
Stereo input	
Type	6.3-mm-stereo channels, unbalanced
Impedance	About 10KΩ
Maximum input level	+22dBu
Balanced mono	
Low	80Hz/±15dB
Mid Sweep	100Hz-8KHz/±15dB
High	12KHz/±15dB

Balanced stereo channel	
Low	80Hz/±15dB
Mid	2KHz/±15dB
High	12KHz/±15dB
Aux Send auxiliary output	
Type	6.3-mm-Mono, unbalanced
Impedance	About 120Ω
Maximum output volume	+22dBu
Sub grouping output	
Type	6.3-mm-Mono, unbalanced
Impedance	About 120Ω
Maximum output volume	+22dBu
Main output	
Type	XLR, balanced, 6.3mm stereo channel plug, balanced
Impedance	About 240Ω balanced, 120Ω unbalanced
Maximum output volume	+22dBu
Headphone output	
Type	6.3-mm-Stereo channel
Maximum output volume	+19dBu/150Ω (+25dBm)
Digital effector (DSP)	
Converter	32-bit digital-to-analog converter 64/128-times (sampling rate)
Scan speed	40KHz
Main Mix system data	
Noise	
Master fader-∞	-101dB
Channel fader-∞	-100dB
Master fader0dB	-93dB
Channel fader-∞	-96dB
Master0dB	-81dB
Channel fader0dB	-83dB
Power supply	
voltage	110-220V~, 50~60Hz
Power consumption	8CH/20W 12CH/30W 16CH/35W 24CH/40W
Fuse	110-240V~ : T1.6A 250V
Power cable	Standard IEC interface

Dimensions	
8CH size	88*360*493.5mm
12CH size	88*400*493.5mm
16CH size	88*494*493.5mm
24CH size	88*698*493.5mm
Net Weight	
8 CH	5.15 kg
12 CH	5.75 kg
16CH	7.0 kg
24CH	9.9 kg

Chapter 5 Troubleshooting

The power won't turn on.	☐ Is the console connected to a separate power source (generator, etc.) or an electrical outlet with a switch? Check that the unit is switched on.
No sound output	☐ Are external instruments (including microphones) and speakers connected correctly? ☐ Are the connection cables shorted? ☐ Are the [GAIN] knobs, channel faders, master faders, and [SUB] faders of each channel set to the appropriate level? ☐ Are the BUS DISTRIBUTION switch and [CD/MP3] switch set correctly?
No sound output from STEREO OUT jacks	☐ Are the [ON] switch and [MAIN] switch of the channel used turned on?
No sound is output from the SEND (AUX1-4) jacks.	☐ Are the [SEND MASTER] knob and [AUX 1-2] settings for each channel correct? ☐ Is the [ON] switch on for the channel you are using?
No sound output from the [PHONES] jack.	☐ Is the [SOLO] switch for channels not in use turned on? ☐ Turn off the [SOLO] switch.
Low, distorted or noisy sound	☐ Is the microphone connected to the [MIC] jack or [MIC/LINE] jack? ☐ Is the [PHANTOM +48V] switch turned on when using a condenser microphone? ☐ Is the [PAD] switch on? Turn this switch off when using a low output level sound source such as a microphone. ☐ Is the output signal level of the instrument connected to the mixer set correctly? ☐ When the output level of the connected instrument is +0dBu, either turn on the [PAD] switch on the mono channel, or use the stereo input channel. ☐ If an input channel provides both XLR input jacks and phone type input jacks, or both phone type input jacks and RCA pin jacks, are both jacks connected? Please use only one type of jack. ☐ Are the [GAIN] knobs, channel faders, master faders, and [SUB] faders of each channel set to the proper level? ☐ Is the effect or compressor level too high? Use the [FX] knob, [FX] fader and [COMP] knob to lower the level.
Cannot use effects	☐ Are the [FX] knobs for each channel adjusted to the proper level? ☐ Are the [FX] faders adjusted to the proper level? ☐ Is the [FX] bus assignment switch set correctly? ☐ If an external effect unit is connected to the [SEND(AUX1-2)] socket, is the [AUX1-2] knob of [SEND MASTER] set correctly?
Audio sound is not clear	☐ Is the [HPF] switch on? ☐ Is the equaliser adjustment ([HIGHI/[MID/LOW) correct?
No output from console signal	☐ Are active speakers connected to the [MONO OUTPUTS] jacks? Adjust the signal output from the [MONOOUTPUTS] jack with the [MONO] fader.
Different left and right levels of stereo input signals	☐ Is [PAN] set to the centre position? If the image is set to the centre, try reversing the left and right input connections. If the left and right signals are reversed and the lower volume side is also reversed, check the instrument or device that is the source of the signal. ☐ Are certain types of cables being used to connect both left and right input signals? Cables with built-in impedance attenuate the signal.
The sound level is unstable and inconsistent.	☐ Is the compression level set too high? Adjust the reduced level with the [COMP] knob.

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