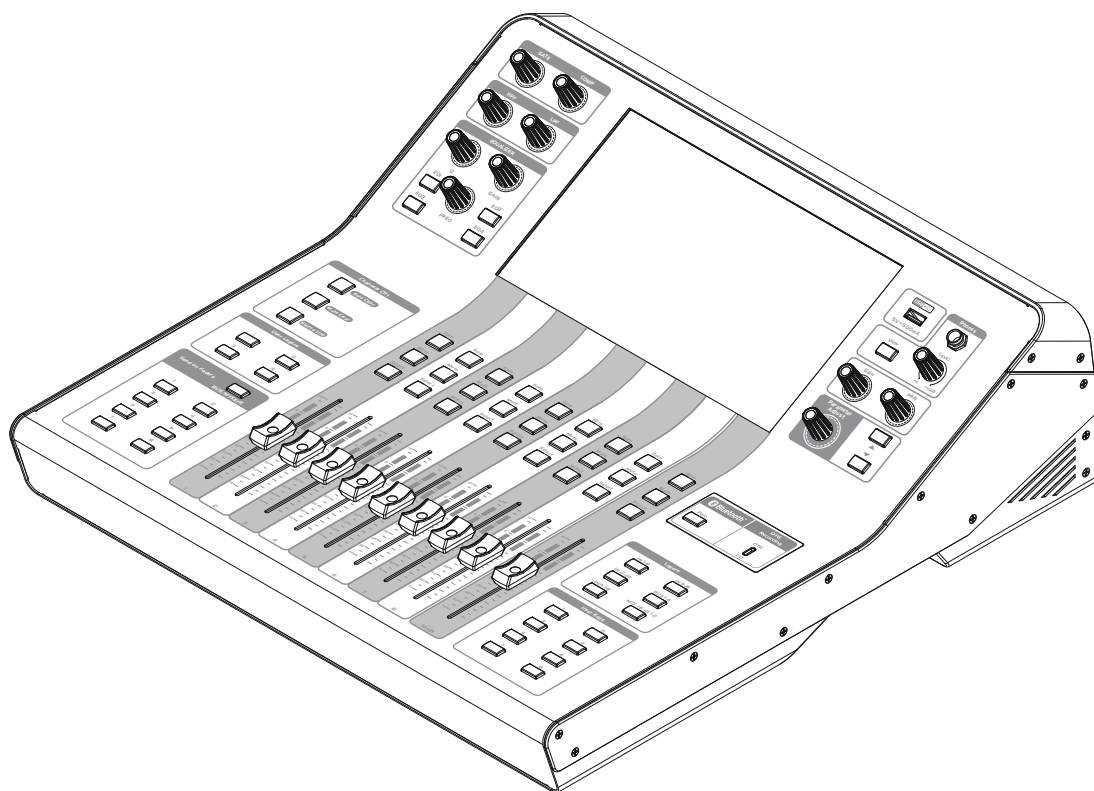


User's Manual

DIGITAL MIXING CONSOLE WITH 24 CHANNELS



Important Safety Instructions



ATTENTION: RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

AVERTISSEMENT: NE PAS EXPOSER CE MATERIEL À LA PLUIE OU L'HUMIDITÉ AFIN DE RÉDUIRE LE RISQUE D'INFLAMMATION OU DE CHOC ÉLECTRIQUE



This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages in the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.



This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.



Protective Ground Terminal



AC mains (Alternating Current)



Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

CAUTION

Describes precautions that should be observed to prevent damage to the product.



Warning! This symbol indicates a hot surface. Certain parts of the housing can become hot during operation. After use, wait for a cool-down period of at least 10 minutes before handling or transporting the device.



Warning! This device is designed for use below 2000 metres in altitude.



Warning! This product is not intended for use in tropical climates.

CAUTION : Risk of fire or explosion if the battery is replaced by an incorrect type

ATTENTION : Risque d'incendie ou d'explosion si la batterie est remplacée par un type incorrect

WARNING: Remove batteries if exhausted or if they will not be used again for a long period.

- The incorrect use of batteries can cause electrolyte leakage and will corrode the compartment or cause the batteries to burst, therefore:
- Do not mix battery types, e.g. alkaline with zinc carbonate.
- When inserting new batteries, replace all batteries at the same time.



Dispose of this product should not be placed in municipal waste and should be separate collection.

Service Instructions

- Refer all servicing to authorized service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Disconnect power cord before servicing.
- Replace critical components only with factory parts or recommended equivalents.
- For AC line powered units: Before returning repaired unit to user, use an ohmmeter to measure from both AC plug blades to all exposed metal parts. The resistance should be more than 2,000,000 ohms.

1. Read and keep these instructions. Heed all warnings and follow all instructions.
2. **Warning** (if applicable): Please refer to any important information (e.g., electrical, safety, etc.) printed on the exterior bottom enclosure or rear panel before installing or operating the product.
3. Clean only with dry cloth.
4. Water and Moisture (if applicable): Do not use this apparatus near water. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. Electrical equipment should NEVER be kept or stored in damp environments.
5. (If applicable) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install this equipment in a confined or "boxed-in" space such as a bookcase or similar unit, and maintain good ventilation conditions. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains, etc.
6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place exposed flame sources such as lighted candles on the apparatus.
7. (If applicable) This product should be connected to a power supply only of the type described in these operating instructions, or as marked on the unit.
8. (If applicable) Be careful not to damage the power cord. When moving or not using the appliance, secure the power cord (e.g., wrap it with a cable tie). Before using it again, make sure the power cord has not been damaged. If the power cord has been damaged at all, bring the unit and cord to a qualified service technician for repair or replacement as specified by the manufacturer.

9. Unplug this apparatus during lightning storms or when unused for long periods of time.
10. Only use attachment/accessories specified by the manufacturer.
11. (If applicable) Use only the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
12. Internal/External Voltage Selectors (if applicable): Internal or external voltage selector switches, if any, should only be reset and re-equipped with a proper plug for alternative voltage by a qualified service technician. Do not attempt to alter this yourself.
13. **Caution** (if applicable): Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. Batteries (a battery pack or an installed battery) shall not be exposed to excessive heat such as sunshine, fire, etc.
14. (If applicable) Do not defeat the safety purpose of the polarized or grounding-type plug.
15. Protective earthing terminal (if applicable): The apparatus should be connected to a mains socket outlet with a protective earthing connection.
 - Denmark (*Danmark*): Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.
 - Finland (*Suomi*): Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.
 - Norway (*Norge*): Apparatet må tilkoples jordet stikkontakt.
 - Sweden (*Sverige*): Apparaten skall anslutas till jordat uttag.
16. **For Class II apparatus only:** This symbol means the equipment is a Class II or double-insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth. When servicing use only identical replacement parts installed by an instructed person or with the use of ready-made leads or cords.
17. **Warning** (if applicable): Provide an earthing connection before the mains plug is connected to the mains. When the earthing is connected, be sure to disconnect it after pulling the mains plug out from the mains.
18. (If applicable) Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
19. **Warning** (if applicable): To prevent possible hearing damage, do not listen at high volume levels for long periods.
20. This apparatus is for professional use only. Intended operational climate: moderate.



FCC STATEMENT

1. 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.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 & your body.

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:

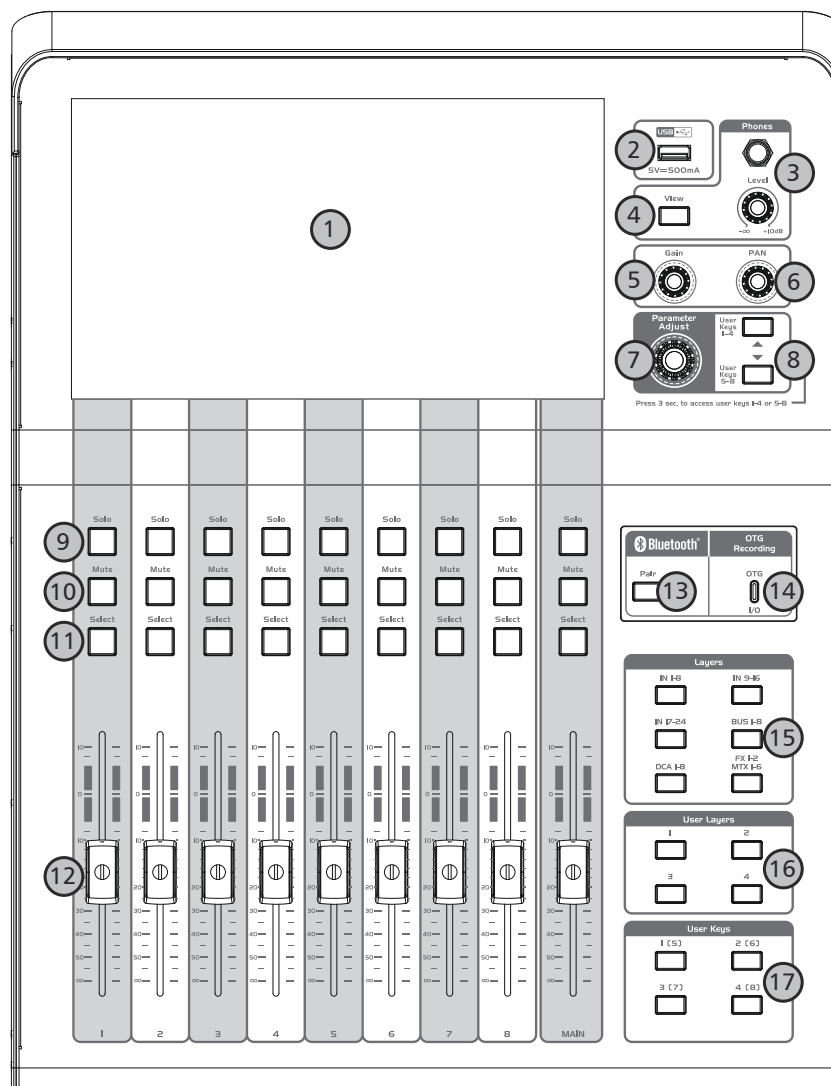
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



General Note on the Declaration of Conformity: We hereby declare that this device is in accordance with the essential requirements of the European Directive 2014/53/EU or 2014/30/EU (LVD: 2014/35/EU; GPSD: 2023/988).

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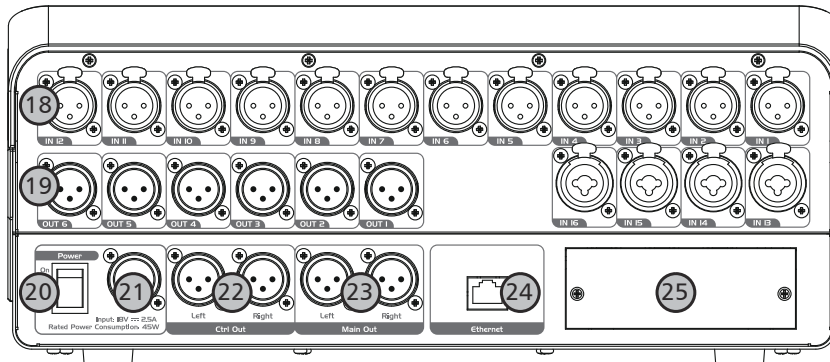
Front Panel



Page 9: 1. GATE	9. Send On Fader
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Rear Panel



Page 12: 18. MIC In.....25. Optional Module

under the EM disturbance, the ratio of signal-noise may be changed above 3dB.

* The mixer for professional use. They can be used in following electromagnetic environment: residential, commercial and light industrial, urban outdoors.
They are the apparatus not intended for rack mounting.

* The peak inrush currents equal to 8.33 A.

*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.

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- Reorient or relocate the receiving antenna.
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Notation

--In this reference manual, the switches on the panel are all called "keys". The control knob on the panel are all called "knobs".

--The virtual buttons displayed on the LCD screen are called "button" or "icon", That which shows the top of LCD screen and used to access to corresponding interface by touching will be called "icon", Other virtual buttons which used to process corresponding function by touching will be called "button". And the area where parameters shows on the display are called "parameter box".

Introduction

Thank you for purchasing this Digital Mixing Console, as one significant feature of this mixer means its function is multiple and powerful. It comes with 24 microphone preamps, 4-band fully parametric digital EQ, compressors, noise gates, delay effects and remote control functions. There are 9 high-precision motorized faders for level adjustment, alongside a 10.1-inch LCD screen for real-time operation. It also supports program preset storage, loading, copying, recording, as well as MP3, OTG and Bluetooth audio playback. We recommend reading this manual thoroughly prior to operation to get familiar with the unit's features and applications, so that you can enjoy all functions at the maximum level.

Summary of features

- 24 XLR analog inputs (including 4 XLR/TRS combo socket) with digital gain control applied.
- Up to 32 digital input channels.
- 8 XLR socket mixing bus outputs.
- Main L/R Outputs
- +48V phantom power
- All input channels can be assigned to headphone output / monitor.
- USB port used to save/load preset and update firmware.
- Support MP3 audio playback and recording functions,
- Support BT audio playback and recording function.
- Support OTG audio playback and recording function.
- Used to form one LAN for APP to connect and control the network port.
- 9 precision motorized 100mm faders
- 32 bit floating point digital signal processing
- 10.1 inch colorful LCD touch screen for graphical view and setup.
- 24-bit / 48 / 96KHz sampling rate.
- Up to 24 DSP processing channels
- Program, save, load & copy functions
- Digital noise gate
- Digital compressor/limiter
- Digital 4-band full parametric EQ
- L/R Channel Control
- Latency Adjustment
- 8 DCA Group/8 Mute Group
- Authority management

2

Summary of features

- AUTO Mixing
- RTA Real-time Spectrum Analysis.
- FBC Feedback Howl Suppressor
- User Keys
- Talkback / Mic input
- Ducker
- Recall Safe function

. Extension Port

It supports optional extension modules, including Dante-32, AES-67 network audio transmission module and USB-32X recording module.

3

Useful Data

Please write your serial number here for future reference.

Serial Number:

Date of Purchase:

Purchased at:

Function Details

About Front Panel (function buttons and knobs)

1. GATE

This knob adjusts the noise gate threshold. The setting determines the input signal level required to open the noise gate.

2. COMP

This knob adjusts compressor threshold. the setting determines the input signal level needed to activate compression.

3. HPF/LPF

These knobs adjust frequency for HPF or LPF respectively.

4. EQUALIZER

These knobs adjust frequency, gain or Q value respectively within 20Hz~20KHz range.

5. S Clear

The key is pressed to disable the monitor function of all channels.

6. M Clear

The key is pressed to disable the mute function of all channels.

7. Stereo Link

These channels under "CH01-24", "BUS01-08" or "MTX01-06" layer can be linked as a stereo pair. Each stereo pair formed with two adjacent channel and they are predefined and cannot be changed. Related linkage follows below rules:

CH01-02

CH03-04

CH05-06

etc.....

Firstly select the current channel by pressing the "SELECT" key on the front panel and then touch the "ST LINK" button to illuminate it. At this time the other channel will be linked with it. Once the stereo pair forms successfully, The same parameter settings (such as DSP setting, sub-group send, solo status and main assignments, etc.) applied on the current channel will be passed to the other channel in the pair.

8. User Layers

Press any USER LAYER keys from 1 to 4 to enter corresponding user layer page. Each interface features layouts for 8 customizable channels combination.

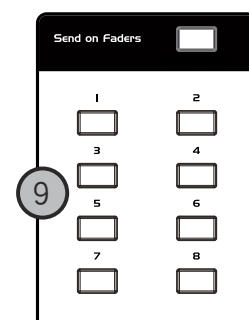
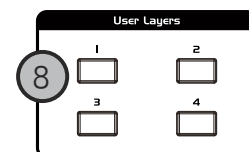
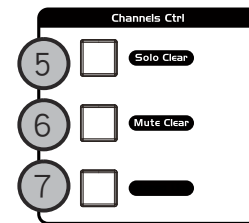
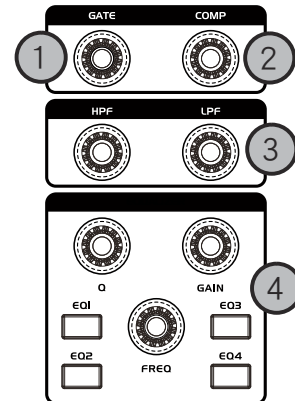
9. Send On Faders

Any of the physical keys 1~8 is pressed and then the GAIN setting and ON/OFF status on LCD will be assigned to the front-panel physical fader and mute keys respectively to facilitate user operation.

The user may press the BUS/MTX&FX key to switch between BUS and MATRIX channels.

When the key is lit, the device switches to BUS channels; the physical keys 1~8 correspond to BUS 1~8 channels respectively.

When the key is unlit, physical keys 1~8 correspond to MTX 1~6 and FX1~2 channels respectively.



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Function Details

10. LCD Screen

Relevant informations of the current interface will be displayed, including channel, channel name, level value and other parameters.



11. USB Port

It supports firmware upgrades, GUI graphic file updates, saving or loading the unit's presets. Please refer to DSP control interface for more details.

12. Phone Port & Level Knob

The port is for headphone connection, The headphone volume can be adjusted via the level knob. Please press to light the "SOLO" key during headphone operates. And the headphone volume can be controlled by the solo value set on LCD screen simultaneously.

13. View

The key is pressed to switch current interface to Ctrl-Room interface.

14. Gain Knob

Used to set the input signal gain(0-50dB) for any channel among CH1-24 and read the gain value set from LCD screen.

Note: That adjusting the knob appropriately is very important to reduce the noise or avoid overload distortion issue.

LED Sig & Clip LED:

- The Clip LED will light red when input signal is more than +16dB. It means signal overloads.
- The Clip LED will light yellow when the input signal reach the peak.
- The Sig LED will light green if the input signal exceeds -48dB. It means related channel stays signal-input status.

15. Pan Knob

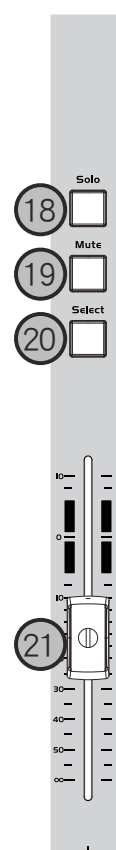
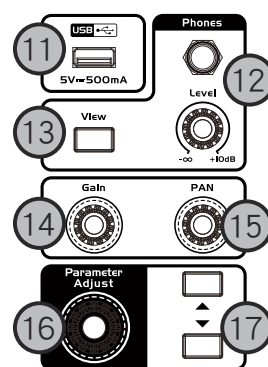
Used to control the distribution of audio signal of L/R channel when the input channel selected. Rotate the knob to position the sound source to the left, right or center. The corresponding PAN parameter value is displayed in real time on screen. If two channels are linked as a stereo pair, the stereo pan value will be shown on the display.

16. Parameter-adjust Knob

Used to change the parameter value of the related functions. Touch to select the parameter box on the display and then turn the knob to adjust the value. Please note related contents shown on the display during operating due to different functions may have different operations.

17. Parameter Next/Prev Key

Press the two keys alternately to select any parameter-box showed on the display quickly regardless the both keys are lit or not.



Function Details

18. Solo Key

The key is pressed with illuminating to route signals from selected channels to the control room output and headphone output.

19. Mute Key

press to illuminate the key and then mute all assigned outputs of selected channels .

20. Select Key

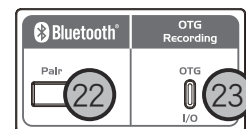
Press to illuminate the key. All selected channels will then be highlighted on the LCD screen. Users may perform DSP adjustments or other settings at this point.

21. Level Faders

Total 9 level faders built here and can be used to adjust the level of corresponding channel.
8 of them work as level fader of CH01-24 and the other one work as the fader of main channel.

22. Bluetooth Pair

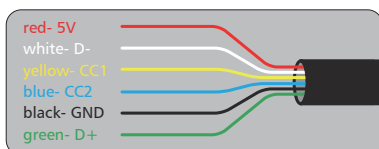
Firstly touch the "OTG/BT" icon on LCD screen to enter the Bluetooth interface, and then press the PAIR key to activate the Bluetooth and then connected to user's mobile phone or iPad or other audio device via searching the Bluetooth name which is same as your device's. And then slide the fader icon of "assign to main" on the display to appropriately adjust the signal level, Finally the signal can be assigned to the Main or BUS channels.



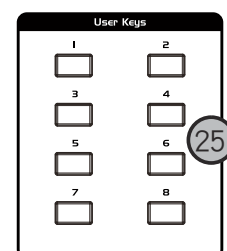
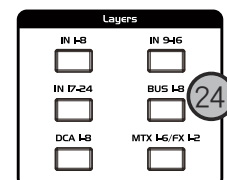
23. OTG Recording & OTG I/O

Using a Type C cable to connect with user's cell-phone or PC or other devices through "OTG I/O" port on the front panel. And then to play or record the audio.

(Note: The cell phone will be recharged once connected to OTG, recharging voltage: 5V=2.5A)



(Pin-wiring diagram of Type C)



24. Layers

Total 6 physical layer keys located on the front panel, Press any key to quickly recall the corresponding 8 fixed channels besides the main channel, which are shown on the bottom of LCD screen.

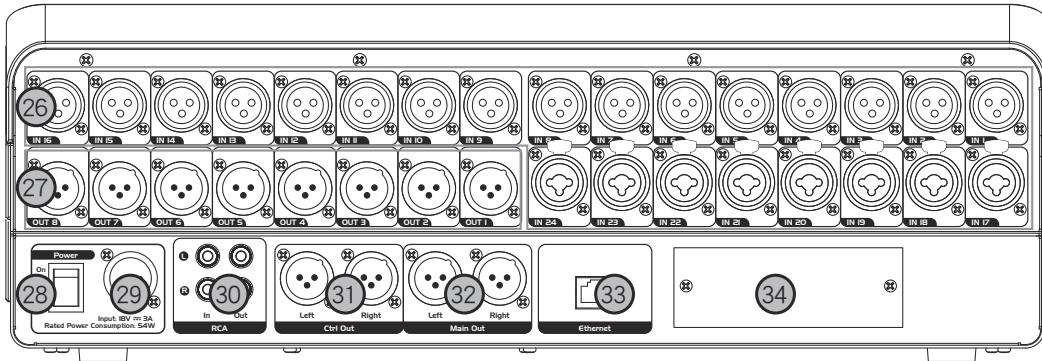
25. User Layer

Total 4 physical user keys located on the front panel, there are 8 optional channels which can be customized under each layer. The 4 physical keys can work as shortcut keys to enter corresponding channel interface user customized by pressing. Please refer to #5.3 DSP control description for more details.

4

Function Details

Rear Panel



26. MIC In

This Digital Mixer equips with 24 microphone preamplifiers for use with all types of microphones. The preamplifier has a Class A input buffer which followed by a dual-servo gain stage. This arrangement will bring ultra-low noise and wide gain control which help to boost signals without increasing unwanted background noise.

27. OUTPUT 1-8

This is a BUS audio output port, User may configure DSP assignments to matrix channel outputs as required.

28. Power

Toggle the switch on to supply power for your mixer.

29. DC Input

The provided adaptor can be plugged into your device and then connected to the power supply.

30. RCA

This port is used for connecting audio cables to transmit audio signals.

31. Ctrl Out

These are the balanced control-room outputs. Rotate the "Parameter Adjust" knob to adjust the gain of Solo button on LCD screen to control the output level.

32. Main Output

This Digital Mixer features both XLR main outputs.

33. Ethernet

This port is for Ethernet control which can be proceeded via APP,iPad or PC linkage after connected to the router. Then the device can be operated remotely.

34. Optional Module

Select our optional module that you want for extra function.

Please contact with distributor to get more information about the optional modules.

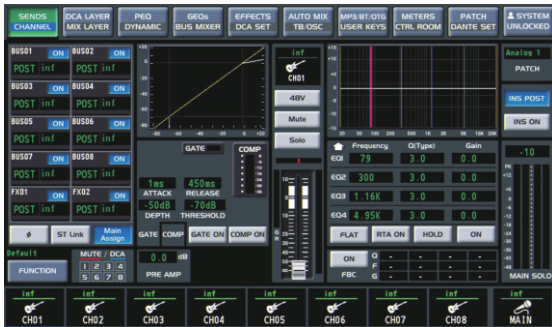
- Ensure the same sampling ratio applied on all equipments before Digital Audio Expansion System is linkaged.
- After the Dante card inserted, please try to switch current sampling ratio in unit's system menu one time in order to ensure the same sampling ratio.
- It is recommended to use gigabit switches under 96K routing mode.
- Optional Dante-32(48K/96K sampling rate)/ AES67(48K sampling rate) digital audio card or USB-32X (48K sampling rate) recording card is available for installation via the expansion port .

DSP Control

In addition to control directly on the machine, the Digital Mixer can also achieve remote operation via the app, which greatly facilitates the users.

5.1 Channel Interface

Following channel interface will appear once the unit powers on. Touch CHANNEL icon or MIX LAYER icon on screen to enter channel interface or mixer interface separately. Multiple channels can be displayed or controlled simultaneously under the mixer interface.



- Channel -



- Mixers -

5.1.1 Sends

Touch the display box of Bus01-08 on the left side of screen to access below interface "Assign To Bus". The signs will be assigned to BUS01-08 or FX01-02 channel. Users can conveniently adjust gain levels by sliding the panel faders, or toggle ON/OFF status by pressing the panel MUTE keys for simpler operation.

- Touch the "ON" button to send to BUS channel.
- Touch the "PRE" button to light it and then the assigned signal will be out of fader's control. Otherwise the signal will be under the fader's control.
- Slide the fader icon on the current interface or turn the parameter-adjust knob to adjust the gain value of selected BUS channel.



5.1.2 Stereo Link

The button synchronizes with the STEREO LINK key on the panel.

5.1.3 Main Assign

Touch the button to assign the signals of the selected channel to the main channel.

5.1.4 Function Button

Tap it to enter the function interface, it contains the following function keys: LOAD, SAVE, COPY, CLEAR, SPECTRUM ANALYSIS ON and SPECTRUM ANALYSIS HOLD.

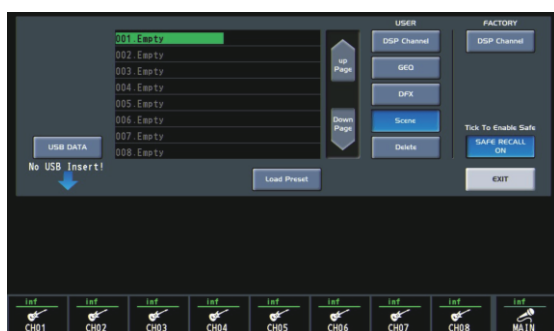
5

DSP Control



Tap LOAD button to enter the Load interface. User may load previous parameters saved in your device for current operating. Or load setting parameters from your USB stick via USB port into your device for current operating.

- 1). Select target user preset to be loaded.
- 2). Used to import the files from USB flash drive to the device.
- 3). Used to export the files from the device into USB flash drive.
- 4). Plug in the USB flash drive first, then tap this button. All files stored on the USB flash drive will be displayed for your review.

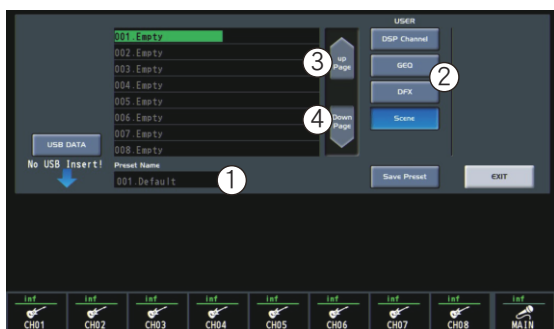


- 5). Touch the (5) button to select files from USB stick or device and then touch (2) or (3) button to import selected files into device or USB stick.
- 6). First, touch the (6) button and then touch the (3) button and then a "naming" tip will pop up. One folder with "DAT16" suffix will be created after naming completed to save all device's data and then import the folder into USB stick. Or find the folder with "DAT24" suffix from USB stick and press the (2) button and then key in passwords (DMC24.12) to import the files into your device.
- 7). Under factory mode touch the CHANNEL button. The left list will appear 16 kinds of channel preset parameter for calling.
- 8). Under factory mode touch the SAFE RECALL button to enter below interface, User can reselect related parameters by tick or untick and then load them. Please refer to the description of "h): Safe Scene Recall Mode" of #5.18 system interface for more details.



DSP Control

Touch "save" button to enter save interface, It is available to save data files set ok into device, or export saved data files into USB stick via USB port.



- 1). Key in the customized name before saved.
- 2). Select saving scene.
- 3). Page up.
- 4). Page down.

Touch "copy" button to enter the copy interface.



- a). Select anyone from CH01-24 or BUS01-08 to copy corresponding settings to other channels. The channel box will flash once selected.
 - b). Tap the tick mark inside the checkbox to select the parameter you wish to copy.
 - c). Finally touch the CONFIRM button to complete copy operation.
- Please pay attention to the information shown on the LCD screen during operation.

-Touch CLEAR button to pop up a prompt box, Click "confirm" to revert the PEQ settings on current page into factory defaults. Or it will keep current setting unchanged.

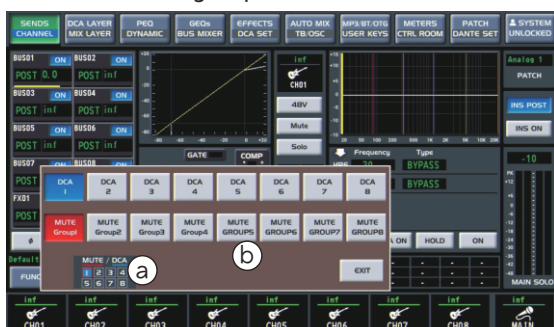
-Touch SPECTRUM ANALYSIS ON button to enable the function,It allows users to view real-time audio dynamic spectrum covering the frequency range of 20Hz~20kHz.

- Touch SPECTRUM ANALYSIS HOLD button to enable the function. it will hold the maximum dynamic audio spectrum values.

5.1.5 Mute/DCA Interface

a) Touch the MUTE/DCA icon to enter the MUTE/DCA interface.

b).Select any DCA group or MUTE group on the pop-up interface and then the current channel will be added into the selected group.



5

DSP Control

5.1.6 Gate on / Gate View

The function applied on the CH01-24 of the unit.

- Touch the small window area of dynamic compression curve to switch into the dynamic parameters interface.
- Gate-status indicator: The signal can't pass when the Gate value is less than threshold, Or the signal can pass when the Gate value is more than threshold. Refer to the description of 5.5 dynamic parameters interface for more operation details.



5.1.7 COMP Interface

Compression functions are available for the CH01-24, BUS01-08, MTX 01-06 and Main channel for this device.

- PRE EQ/POST EQ Button: Tap this button to toggle its indicator light and switch EQ control mode between PRE EQ and POST EQ..
- "SIDE CHAIN" means to apply another audio signal to compress or modulate the current one. You may select source signals from input channels CH01-24, output buses BUS01-08, matrix channels MTX01-06 and the Main channel.
- Compressor status indicator.
- Preamp gain module applied on CH01~24.
- Delay function is available for CH09-24, BUS01-08, MTX01-06, MAIN channel based on 48K sampling ratio, While available delay function applied on CH17-24 / BUS01-04/MAIN channel based on 96K sampling ratio. Please refer to #5.5 Dynamic Parameters interface for other operation details.



5.1.8 Faders Interface

- Gain value shows here.
- The icon shows the current channel, Touch it and then a virtual keyboard will appear on the display, and you can customize the name & color applied on the current channel at this time.
- 48V button: Touch it to see a prompt window which shows warning information "Are you sure turn on +48V phantom power of this channel?", If click ok to enable the 48v phantom power as well as its' red backlight illuminates. Note: Only condenser microphone needs phantom power. Don't connect the phantom power to any devices which don't need it. Otherwise the device will be damaged.
- Mute: Touch the button to mute the selected channel and its backlight will synchronize the Mute button on front panel to light on or off simultaneously.
- Solo: Touch the button to monitor the audio signal of selected channel and its backlight will synchronize the Solo button on front panel to light on or off simultaneously.
- Pan Icon: It indicates the left and right channel positions of the current audio. And user can adjust it by the Pan knob on the front panel.
- The input signal indicator.
- Fader: Slide it to adjust the audio signal and it synchronizes the fader on front panel to control input level and catch the same effect. Also the gain applied on faders will automatically become "0" dB if both "solo" button and "select" button are pressed simultaneously.
- Compressor status indicator.



5.1.9 PEQ Interface

- FBC switch, The FBC function is available for CH01-08 / BUS01-04 channel under 48K sampling ratio or for CH01-06/BUS01-02 under 96K sampling ratio.
- Touch the button to enter PATCH page and then it can assign the routing to channels.
- Touch the button after the "insert return" set ok to decide whether the inserted signals output through fader control.
- Touch the button to control the input signal will output from the channel after the "insert return" set ok. Please refer to the description of #5.4 PEQ interface for more details.

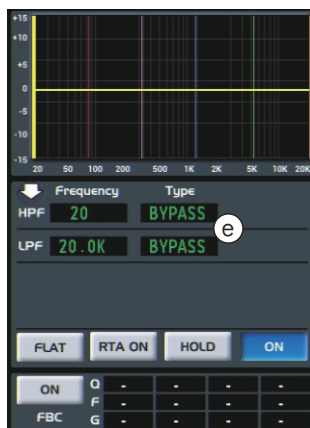
DSP Control

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e). HPF/LPF Frequency Types:

Under the 48kHz sampling rate, all channels support a total of 11 filter types: Bypass, BW6, BS6, BW12, BS12, LR12, BW18, BS18, BW24, BS24, LR24.

Under the 96kHz sampling rate, BUS and Main channels support a total of 5 filter types: Bypass, BW6, BS6, BW12, BS12.



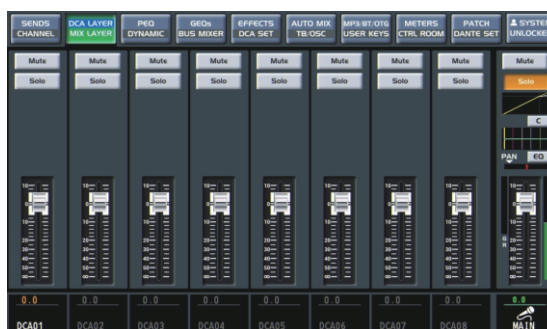
5.1.10 Channel Module Icon

The channel module icon will display the channel name and current gain value. Press any button built on front-panel Layer area and then press and hold the corresponding module icon, A virtual keyboard interface will pop up to allow user to rename channel name.



5.2 DCA Layer Interface

Touch the "DAC LAYER" icon on the screen to enter below interface, There are 8 DCA layers where 8 optional channels & related parameters can be set under each DCA layer can be customized according to actual needs or usage habits, once setting completed, the related settings can be quickly accessed on this interface. Please refer to the description of #5.9 DCA Set interface for more details.



5.3 USER LAYER

Press the any one of 1~4 "User Layer" keys on front panel and then touch the "DCA Layer/Mix Layer" icon on LCD screen, The original "Mix Layer" icon will change automatically to "User Layer" icon to enter the "User Layer" interface. There are total 4 physical user layers keys (U1~U4) which can be accessed as well as 8 channels can be set on each layer.



5

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Setup Method:

Click the SYSTEM>>USER LAYER SETUP icon on LCD screen to enter setup page, Here user can customize the selected channels on each layer and arrange sequence.

5.4 PEQ Interface

Touch the "PEQ" icon on LCD screen to enter below PEQ interface. Then the audio signal's frequency / gain / EQ value can be adjusted within 20Hz- 20KHz range.

- The relevant parameters displayed in the parameter box on screen (Frequency, Q value, Gain) can be adjusted by dragging the slider icon. These settings are synchronized with the PARAMETER ADJUST knob on the panel.
- EQ Band Switching Button.
- Function Button: Touch it to pop up a submenu list containing LOAD, SAVE, COPY, CLEAR, SPECTRUM ANALYSIS ON and SPECTRUM ANALYSIS HOLD button, It allows to select desired button to precess accordingly.
- Used to enable or disable the EQ.



5.5 Dynamic Parameters Interface

Touch the "Dynamic" icon on LCD screen to enter the dynamic interface, Follow below steps to process parameter setting:



- Attack Time: Touch it to set the time how long it takes the gate to open when the signal applied on the selected channel beyond the trigger level, It can be set from 0.5 to 200 ms. The noise issue can be avoided efficiently if ATTACK time set appropriately.
- Release Time: Used to set the amount of time for the gate to go from open to fully close. It can be set from 0.01 to 1 second. The noise issue can be avoided efficiently if the Gate off-time set appropriately.

Note: Carefully set noise gate Release Time to preserve natural sound decay. Shorter values reduce noise but may create clicking on percussion. Longer settings generally remove clicking; always listen closely during tuning.

- Threshold: Touch it to set the trigger level of noise Gate for the selected channel. It can be set from 20 to -84 dB. The trigger level will decide which level at the gate will open. An audio signal which exceeds the trigger level will go through smoothly.
- Depth: Used to set the gate depth for the selected channel. This parameter determines the attenuation depth when the gate closes.
- Attack Time: Used to set the speed how fast the compressor applied on the selected channel will enable. The attack time is usually set from 10~250 milliseconds.
- Release Time: Used to set the compression time applied on the selected channel. It means to set how long it take the signal which is less than trigger level to reach the normal gain. The time is usually set from 10~1000 milliseconds.
- Comp Ratio: Touch it to set the compression ratio for the selected channel. It means the ratio of the output level to the input level based on ratio scope 10:1~1:1. For example, a ratio of 4:1 means any signal which is higher than trigger level will be compressed by 4:1 ratio.
- Gain: Touch it to set the compression gain of the selected channel. When it compress the signal, that the gain goes down usually leads to the attenuation of the whole level, At this time the button can be used to recover the loss level and readjust the previous compression ratio. And the range of gain adjustment is usually 0dB to +12dB.
- Threshold: Touch it to set the compression trigger level applied on the selected channel. The copressor will enable to compress the signal level once the signal amplitude beyond the trigger level, Usually -83 ~ +20dB will be set as the scope of trigger level usually.

DSP Control

- j). Function Button: Touch it to pop up sub-menu including "Load, Save, Copy" button and then touch any button to take corresponding operation.
- k). Once parameter box selected, the corresponding parameter value can be changed by sliding the fader icon or rotating the physical PARAMETER ADJUST knob on the panel.

5.6 GEQ

Touch GEQ icon to access following GEQ interface. The frequency range of 20Hz~20kHz has been divided into 31 EQ bands, with RTA outputs implemented.

There are 4 groups of GEQ available for assignment to the main channel, Bus 01~08 channels or MTX01-06 channels at a 48K sampling rate. At 96K sampling rate, only 2 GEQ groups can be assigned to the Main channel or Bus 01~08 channels.

Once GEQ group is selected, the corresponding channel parameters are highlighted in green. User may then rotate the PARAMETER ADJUST knob on the panel to select channel or adjust the frequency and Gain values for the chosen GEQ group.



5.7 Bus Mixer Interface

Touch the "Bus Mix" icon on LCD screen to enter below BUS MIXER interface.

The signal inputs into CH01-24 / FX01-02 and then output from BUS01-08 / FX01-02 / MTX01-08 and Main channel through the bus mixer.

The settings applied on this interface will synchronize with the settings of "SENDS" interface. Please refer to below steps for more operation.

- Input-channel selection list: Touch channel icon one by one or touch "All to 0dB" / "All Pre" / "Clear All(OFF)" button to select all channels at one time.
- Output-channel selection list: Total 17 channels(BUS1-8/MTX1-6/FX1-2/MAIN) can be selected as output channels here. User can touch the "BUS1-8/MTX1-6/FX/MAIN" button to view the whole channel list.
- Touch the "CH1-24" and "FX1-2" button alternately to view the whole input-channel list.
- "All Pre" Button: Touch to light it and then the "Pre-fader" function applied, It means the signal out of fader's control.



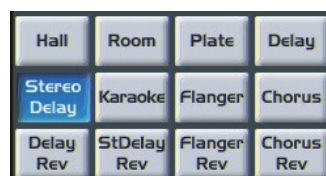
- "Clear All(OFF)" Button: Touch and light it and then all input channels will be off, Otherwise some or all input channel are on.

- "All to 0dB" Button: Touch and light it and then 0dB gain value will be applied on all input channels.

- "Fend on faders" Button: Touch and light it and then the corresponding gain value of selected input channel will be applied on the physical fader of front panel.

5.8 Effects Interface

The unit supports 12 effects setting. The corresponding effect parameters selected on the screen can be adjusted with parameter-adjust knob. Details of each effects described as below table.



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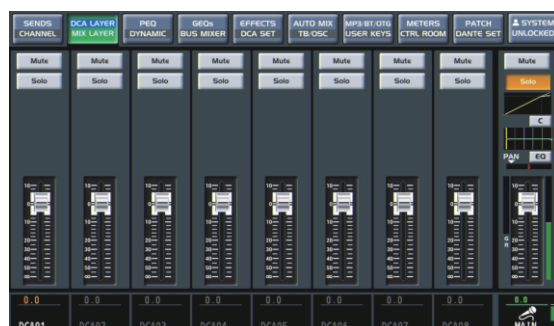
No.	Preset	Description	Parameters
1	Hall	Hallsound simulation	Predelay(30ms), Reverb time(1.30S), Room size(Middle), Brightness(50%), Reverb diffusion(50%), Effects output(96%), Dry Output (0%)(0%)
2	Room	Studio echo simulation	Predelay(10ms), Reverb time(1.00S), Room size(Middle), Brightness(50%), Reverb diffusion(50%), Effects output(96%), Dry Output (0%)
3	Plate	Vinyl Record Effect	Predelay(0ms), Reverb time(0.61S), Room size(Middle), Brightness(50%), Reverb diffusion(50%), Effects output(96%), Dry Output (0%)
4	Delay	Delay the outputs lightly relative to the input	Predelay(110ms), Attenuation(24%), HF attenuation(50%), Effects output(96%), Dry Output (0%)
5	Stdelay	Adds input audio to stereo output with time offset. L/R delay is linkable for synchronous adjustment.	Left Delay(220ms), Right delay(110ms), Left attenuation(24%), Right attenuation(24%), HF attenuation(50%), Effects output(96%), Dry output(0%)
6	Karaoke	Karaoke Effect	Predelay(0ms),Revertime(0.75S), Room size(Middle),Brightness (50%) , Reverb diffusion(50%), Delay time(110ms) , Feedback delay(24%) , Brightness Delay(50%) , Effect output(96%) , Dry output(0%)
7	Flanger	Ensemble effect	Feedback(24%) , Depth(60%) , Modulation frequency(0.16Hz) , Effect output(96%) , Dry output(0%)
8	Chorus	Creates the illusion of multiple instruments from a single instrument performance.	Feedback(0%) , Depth(60%) , Modulation frequency(0.16Hz) , Effect output(96%) , Dry output(0%)
9	DelayRev	Room Effect Delay	Predelay(0ms) , Reverb time(0.75S) , Room size(Middle) , Brightness(50%) , Reverb diffusion(50%),Delay time(110ms) , Feedback delay(50%) , Brightness delay(50%) , Effect output (96%) , Dry output (0%)
10	StDelayRev	Room Stereo Delay (L/R delay linkable for synchronous adjustment)	Predelay(0ms) , Reverb time(1.70S) , Room size(Middle) , Brightness(50%) , Reverb diffusion(50%) , Left delay(220ms) , Right delay(110ms) , Left feedback(24%) , Right feedback(24%) , Brightness delay(50%) , Effect output(96%) , Dry output(0%)
11	FlangerRev	Stereo Chorus and Hall Reverb	Predelay(0ms) , Reverb time(0.75S) , Room size(Middle) , Brightness(50%) , Reverb diffusion(50%) , Modulation feedback(24%) , Modulation depth(60%) , Modulation frequency(0.16Hz) , Effect output(96%) , Dry output(0%)
12	ChorusRev	Simulate rotating horn & woofer effect	Predelay (0ms) , Reverb time(0.75S) , Room size (50%) , Brightness (50%) , Reverb diffusion (50%) , Chorus feedback (0%) , Modulation depth (50%) , Modulation frequency (0.16Hz) , Effect output(96%) , Dry output (0%)

5.9 DCA Setting Interface

5.9.1 DCA Setting

Touch DCA SET icon on screen or touch on-screen buttons in sequence SYSTEM UNLOCK->DCA SET-> DC-A1-8 to enter the DCA Setting interface.User can access the DCA layer interface to directly control the pre-configured DCA groups.

For example: Select DCA 01 group, then touch SETTING button to select the multiple channels within this group. For example CH1, CH2 or CH3 are selected, users may customize the corresponding channel names and highlight colors. Touch SETTING button again to confirm, CH1,CH2 and CH3 will then be assigned to DCA Group 01, and their output signals can be controlled collectively via DCA Group 01.



5.9.2 Mute Group

Touch the on-screen button in sequence DCA SETTING-> MUTE GROUP or SYSTEM UNLOCK->DCA SETTING->MUTE GROUP to enter Mute Group Setting interface. After completing the mute group configuration, User can touch the USER KEY icon and then touch MUTE GROUP button on screen to enter corresponding control interface.

For example: Select Mute Group1 and then touch SETTING button to select multiple channels you desired. When CH1, CH2 and CH3 selected, corresponding channel name can be customized, Touch SETTING button again to confirm.After that, touch MUTE GROUP 1 button to enable or disable the mute function for all channels linked to this group.

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5.10 AUTO MIX Interface

5.10.1 AUTO Mix

Once the "AUTO MIX" function activates, The total gain outputs applied on all selected channels will go down to 0dB automatically. It can effectively reduce howling, reverberation and other external noise produced when multiple microphones are used simultaneously.



a). Used to switch into the AUTO MIX interface.

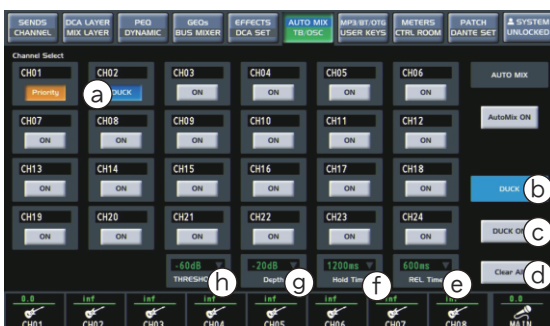
b). Touch and light it to activate "AUTO MIX" function.

c). Used to set the response time for AUTO MIX function.

5.10.2 Ducker

The ducker function usually used on the scene of voiceover, When the announcer speaks, the volume of background music will reduce automatically. Once the volume of signal beyond the specific threshold, the output volume will be attenuated into the specific limits.

- Duck / Priority channel selection, Click one time to setup priority channel; Click dual times to setup duck channel.
- Touch it to switch to ducker interface.
- Touch it to turn on/off the ducker.
- Touch it to clear all opened ducker channels.
- Used to setup the release time of ducker.
- Used to setup the holding time of ducker.
- Used to setup the depth of ducker.
- Setup the level of trigger signal required to activate ducker.

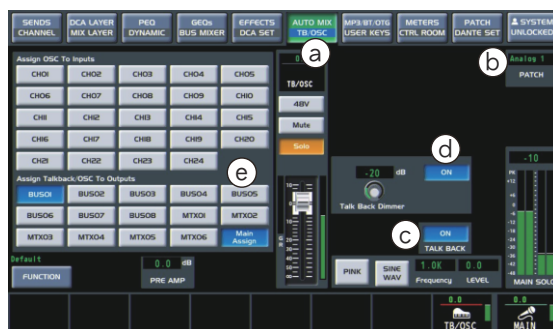


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5.11 TB/OSC Interface

5.11.1 Talkback Function:



a). Touch the "TB/OSC" icon on LCD to enter TB/OSC interface.

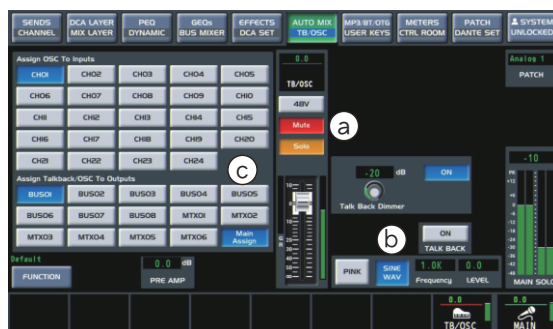
b). Touch the PATCH parameter box in the upper-right corner of the LCD, then select the corresponding TB/OSC channels on the pop-up virtual keyboard to assign audio sources.

c) Touch the MUTE button for the TB/OSC channels to unmute the channels, then slide the corresponding faders to the appropriate positions.

d). "ON" Button: Acts as the background audio attenuation switch. Touch to adjust the output gain of the background audio.

e). Talkback channels can be assigned into BUS / MATRIX / MAIN channel outputs.

5.11.2 Oscillator Function



a). The Oscillator and TB channels share one indicator. The talkback channel must be muted prior to operating the oscillator.

b). The oscillator can automatically generate pink noise or a 20Hz~20kHz sine wave signal. Users can adjust the frequency and amplitude of the sine wave via the frequency box and level box on the interface.

c). The generated signal can be input from CH01~24 or output via the BUS / MATRIX / MAIN channels. The corresponding dynamic spectrum is available for viewing in the PEQ or GEQ interface.

5.12 MP3/BT/OTG Interface

5.12.1 MP3/OTG



Touch the "MP3/OTG / BT" icon on LCD screen to enter the above interface, Touch to illuminate the MP3/OTG butto and then connecte USB stick or mobile phone or other audio devices to playback/record The audio can be assigned into the main channel or BUS channel.

USB Playback: First, place audio files in the root directory of the USB stick. A maximum of 300 audio files can be stored here. Supported audio formats include MP3, WAV and WMA. The USB storage device must be formatted to the FAT32 or exFAT file system. Music information will be displayed on the interface once USB stick connected. Touch the PLAY button to assign audio signals into BUS 1-8 and MAIN channels.

USB Record:

The device defaults to sourcing its recording signals from the BUS3-4 channel. Users enter interface by touching in sequence "System >> Audio Settings >> REC INPUT" and then select any channel among BUS1~8 and MAIN L/R as the recording input .

Navigate to System >> Audio Settings >> REC LEVEL to enter the corresponding interface to adjust the recording signal volume. Once recording is finished, an audio file starting with the prefix "REC" will be automatically generated and added to the audio file list.

DSP Control

5.12.2 Bluetooth Function:

Touch the MP3/BT/OTG icon on screen to enter following interface, Activate Bluetooth function by touching to light up the BT button, once enabled, the unit's Bluetooth module can pair with smartphones or other audio devices for audio playback or recording. The corresponding audio signals can be routed to the MAIN or BUS channels.

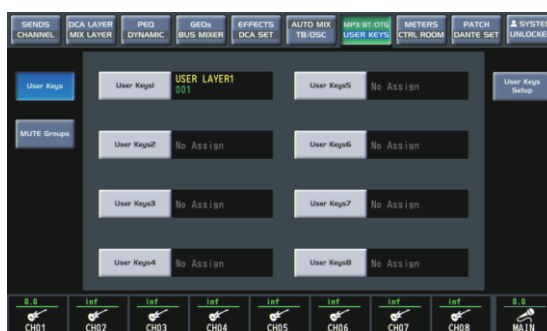


5.13 User Keys Interface

User can access the User Keys interface by operating below two optional ways.

1. Touch "USER KEYS" icon >> "USER KEY SETUP" button on screen to access:
2. Touch "SYSTEM UNLOCKED" icon >> the "USER KEY SETUP" button on screen to access:

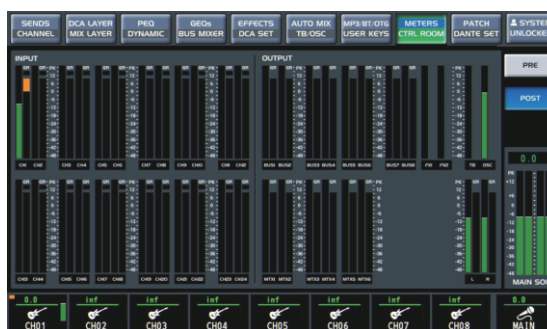
Select anyone of item NO.1~NO.8 listed on the left of display, then rotate the PARAMETER ADJUST knob to assign your desired functions as user keys. Total 8 user keys can be configured with various functions including USER LAYER, DANTE SETUP, MUTE GROUP, DCA SET UP, CH SELECT, PRESET RECALL, MAIN MUTE SOLO, BUS SEND, TAP KEY, FX MUTE/SOLO, Home and more. After configuration is finished, the "▲" key keeps lighting up on by default under normal condition. The 4 physical user keys (U1-U4) located on the front panel will work as the shortcut keys to correspond to the settings of item NO.1~item NO.4 respectively set on the "User key" interface. When press and hold the "▼" key 3S to light up, the U1~U4 physical keys will switch to correspond to the settings of item NO.5~item NO.8 as shortcuts.



5.14 Meters Interface

Touch "METERS" icon on LCD screen to access following meters interface:

Users can view the audio signal meter for input and output channels based on Pre-fader or Post-fader settings by tapping the "PRE" or "POST" button.

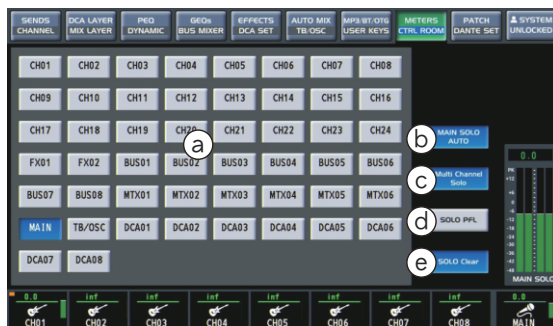


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5.15 CTRL Room Interface

Touch the "CTRL Room" icon on LCD screen to access following interface, where user can select required solo channels or DCA group needed.



- Display the List of Control Room Channel Buttons.
- Use it to solo the main channel automatically.
- Used it to switch between single channel and Multi channels, Touch to light the button to solo Multi channels simultaneously or solo the single channel when the button lights out by touching.
- Touch to light the "Pre fader" button and then the solo outputs will be out of faders' control, if the "Pre fader" button lights out by touching, the solo outputs will be under the faders' control.
- Touch it to clear all solo settings.

5.16 Patch Interface

Touch the "PATCH" icon on the LCD screen to access following interface:



- Input Patch: Different audio sources can be assigned to each individual input channel. Input sources can be selected from Analog channels 1–24 or DANTE channels 1–32.
- Bus Mix Input: This function routes input signals directly to output buses, bypassing the input channel's DSP processing. Audio signal transmission takes effect once both the input channel and target BUS output are selected.

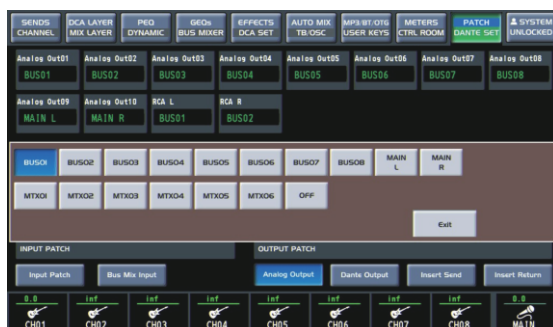


Input Patch



Bus Mix Input

- Analog output: Used to assign audio sources to analog output ports, For example: If Bus01 is assigned to Analog 1 port. the signal routed into Bus01 will be output via analog out1 port.
- Dante Output : Default is Dante output; automatically identifies digital card type. E.g., when a Dante-32 card is inserted, "Dante output" is displayed. Selecting "Bus 01" for "Dante Out1" means the signal source for Dante Out1 is "Bus 01".



Analog Output



Dante Output

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e). Insert Send

Total 24 inserts (INS01-24 SEND) here and user can select any sound source among "Analog 1-10" or "Dante 1-32" as audio direct send and then output from corresponding ports by selecting "Analog output setting>>Analog Out01-10 "or" Dante output>>Dante Out01-32".

For example: selecting Analog 1 from "INS01 SEND", the CH01 signal will send and output from the port of "Analog output setting>>Analog Out01".

f). Insert Return

User can select "Analog 1-24" or "Dante 1-32" from "NIS01-24 RETURN" as sound sources to directly return.

Select the INS channel under mono-channel page and click the "INS on" to enable it. E.g: Select "Analog 1" from "INS02 RETURN", Audio signal will input from CH01 and insert into CH02.

Then switched to mono-channel page by pressing the "channel" button on the panel or clicking "mono" icon on LCD screen. Select CH02 and turn on "INS On" button and then audio signal will input from CH02 and output from Bus/Main channel. That whether the signal level can be controlled by corresponding faders will be decided by operating the POST or PRE button.

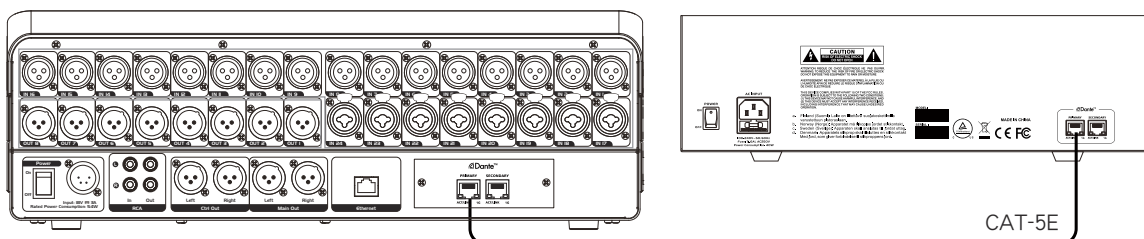


Insert Send



Insert Return

5.17 Dante Set Interface



Touch the DANTE SET icon on LCD screen to enter following interface, first, connect DIGITAL AUDIO EXTENSION SYSTEM to the mixer with network cable in accordance with the above hooking diagram. Next, touch SCAN button to search, the name of linked devices will be listed.



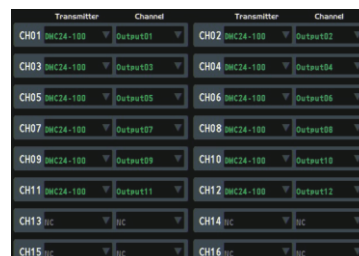
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DSP Control

Select the name of the digital signal receiving device:



Select the target output device and corresponding channel here.



5.18 System Interface

Touch "System Unlocked" icon on LCD screen to enter below interface:



a). "Enter" Button: Touch it to reconfirm once some parameters are changed so that current settings can be saved.

b). "Device Setup" Button: Touch it to enter below interface:

NO.	ITEM	DESCRIPTION	SPEC
01-01	AUDIO CLOCK	SAMPLING RATE	48kHz
01-02	SLOT	CARD TYPE	DANTE-32
01-03	METER	PEAK HOLD	2S
01-04	SOFTWARE	VERSION	v1.0.09
01-05	DEVICE	DEVICE ID	0x100 (PRIMARY)
01-06	MP3	VERSION	v0.8.20

01-01	Sampling Rate	48KHz and 96KHz as optional modes
01-02	Card Type	Total four status displayed: "NO CARD" display if none card inserted; "Dante-32" display if DANTE card inserted; "AES67" display if AES67 card inserted; "USB-32X" display if USB recording card inserted. d.
01-03	Meter Peak holding time	inf---permanent . 2s---Holding 2 seconds OFF---None. Above three options
01-04	VERSION	Display the version information of current firmware
01-05	Device ID	Display current ID information

c). "Panel Setup" key: Touch it to enter below interface:

NO.	ITEM	DESCRIPTION	SPEC
02-01	LCD	PAGE	AUTO CHANNEL SELECT
02-02	LCD	PAGE	AUTO RETURN
02-03	LCD	PAGE	DEFAULT PAGE
02-04	LCD	PAGE	DELAY UNIT
02-05	ACC SWITCH	LINK MODE	STEREO LINK
02-06	CHANNEL	REMOTE SYNC	ENABLE
02-07	CHANNEL	LCD BACK LIGHT	3

02-01	AUTO CHANNEL SELECT	Selecting ENABLE to open it and DISABLE to close it. If it opens, click the Mute/Solo button on one channel to be switched to the corresponding channel.
02-02	Auto Return	Three options can be selected such as 3min, 5min and OFF. After relative function set, it will return to default interface upon time it up.
02-03	Default Page	Single Channel and Multi Channel as two options. It will return to the selected page by default after setting.
02-04	Delay Unit	Meter and Millisecond as two options.
02-05	Link Mode	Stereo Link and Fader Link as two options. Both modes can be linked by fader. Difference means stereo link also has the function of channel link.
02-06	REMOTE SYNC	ENABLE selected to turn on and DISABLE selected to turn off. It will synchronize with ipad if it turns on.
02-07	LCD brightness setting	The dimming can be adjusted based on the Lighting grade 1-8.

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d). User setup: Click it to enter below interface, There are two options (ENABLE and DISABLE) for each item and user can setup according to actual needs.

NO.	ITEM	DESCRIPTION	SPEC
03-01	OPERATOR	DIGITAL IN/OUT LEVEL	ENABLE
03-02	OPERATOR	FADER GAIN	DISABLE
03-03	OPERATOR	CHANNEL MUTE&SOLO	ENABLE
03-04	OPERATOR	CHANNEL DSP FUNCTION	ENABLE
03-05	OPERATOR	CHANNEL FBC	ENABLE
03-06	OPERATOR	CHANNEL SEND	ENABLE
03-07	OPERATOR	CHANNEL COPY	ENABLE
03-08	OPERATOR	GEQ	ENABLE

03-01	Digital In/Out Level	ENABLE
03-02	Fader Gain	ENABLE
03-03	Channel Mute&Solo	ENABLE
03-04	Channel DSP Function	ENABLE
03-05	Channel FBC	ENABLE
03-06	Channel sends	ENABLE
03-07	Channel Copy	ENABLE
03-08	GEQ	ENABLE

e). Network setup: Click it to enter below interface:

NO.	ITEM	DESCRIPTION	SPEC
04-01	NETWORK	REMOTE CONTROL	CONTROL
04-02	NETWORK	MAC ADDRESS	0-A1-B0-58-5-60
04-03	NETWORK	IP ADDRESS	192.168.1.104
04-04	NETWORK	IP MODE	DHCP

04-01	Remote control	CONTROL, MONITOR ONLY, DISABLE
04-02	MAC address	Display MAC address
04-03	IP Address	Display IP address
04-04	IP Mode	Two options: Static / Dynamic

f). Audio setup, Click it to enter below interface:

NO.	ITEM	DESCRIPTION	SPEC
05-01	FBC	RESPONSE	FAST
05-02	FBC	SENSE	HIGH
05-03	FBC	RELEASE TIME	60 Seconds
05-04	REC	REC INPUT	BUS3-4
05-05	REC	REC LEVEL	-10dB
05-06	OUTPUT GEQ	OUTPUT GEQ1-2	BUS1-2
05-07	OUTPUT GEQ	OUTPUT GEQ3-4	MAIN LR

05-01	FBC Response Speed	FAST and SLOW as response speed can be selected here
05-02	FBC sense speed	Three optional speed (LOW/MID/HIGH) for FBC sense speed.
05-03	FBC Release Time	Time can set as 30s, 60s, 5m, 10m, 15m, 30m, 60m, 2h, 3h, 4h, 5h, 6h, 7h, 8h, 24h total 15 kinds of options.
05-04	Recording setting	Available to set as BUS1-2, BUS3-4, BUS5-6, BUS7-8, MAIN LR as recording inputs.
05-05	Recording level	Set the level from -15dB to 10dB and -10dB set by defaulted
05-06	GEQ Output 1-2	Available to set as BUS1-2, BUS3-4, BUS5-6, BUS7-8, MTX1-2, MTX3-4, MTX5-6, MAIN LR channel, Click "GEQs" icon on GEQ interface and then select GEQ01 or GEQ 02, User can call related settings applied on corresponding channels.
05-07	GEQ Output 3-4	Available to set as BUS1-2, BUS3-4, BUS5-6, BUS7-8, MTX1-2, MTX3-4, MTX5-6, MAIN LR channel, Click "GEQs" icon on GEQ interface and then select GEQ03 or GEQ 04, User can call related settings applied on corresponding channels.

g). User Keys: Use it for shortcut settings, Details as 5.13 User Keys Interface.

h). Safe Scene Recall Mode

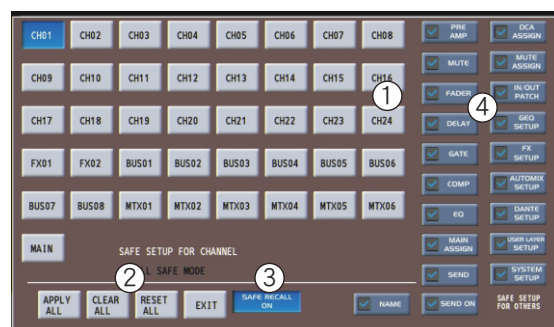
Under normal recall scene, all mixing parameters will be overwritten. In certain scenarios, user can retain the current settings of specific channels via the safe recall function. That either to setup parameters of safe recall function applied on each scene or to setup overall parameters of safe recall function applied on all scenes is available.

It will enter the safe recall interface through each of following two optional ways:

- 1). Orderly touch the SYSTEM UNLOCKED icon>>SAFE SETUP button on LCD screen to enter the safe recall interface.
- 2). Orderly touch CHANNEL icon>>FUNCTION button>>LOAD button >>SAFE RECALL ON button on LCD screen to enter the safe recall interface.

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DSP Control



Operation Instruction Of Safe Recall Function

1). SAFE SETUP FOR CHANNEL(Step#1)

Follows shows the directions for checkbox of channel parameters, Enter below interface to check the checkbox on the right, Then these parameters saved in the scene memory will be recall. These corresponding parameters will be neglected if no check the checkbox.

- PRE AMP.....Enable to recall channel preamplifier gain parameters.
- MUTE.....Enable to recall channel mute parameters.
- DELAY.....Enable to recall channel delay parameters.
- Volume controller...Enable to recall the parameters of volume or level knob.
- GATEEnable to recall the parameters of channel gates.
- COMP.....Enable to recall the parameters of channel compressions.
- EQ.....Enable to recall the parameters of channel EQ.
- TO MAIN.....Enable to recall the parameters of the MAIN outputs.
- SEND.....Enable to recall the parameters of channel assignment.
- SEND ON.....Turn on the recall function to assign parameters of channels.
- NAME.....Enable to recall the channel name.

2). RECALL SAFE MODE(Step#2)

"APPLY ALL" button: After completing the step#1, Click it to recall all selected parameters and apply them to every channel.

"CLEAR ALL" button: After completing the step#1, Click it to clear all selections made in step#1.

"RESET ALL" button: After operation of the step#1,Click it to recheck the corresponding parameter boxes.

3). SAFE MODE ON

Enable or disable the safe recall mode with this button.

4). SAFE SETUP FOR OTHERS

The following describes the recall safe configuration for other parameter items.

- DAC ASSIGN.....Enable to recall the DAC-ASSIGN parameters.
- MUTE ASSIGN.....Enable to recall the MUTE-ASSIGN parameters.
- IN/OUT PATCH.....Enable to assign the parameters applied on IN/OUT patch.
- GEQ SETUP.....Enable to recall the parameters of GEQ SETUP.
- FX SETUPEnable to recall the parameters of FX SETUP.
- AUTOMIX SETUP.....Enable to recall the parameters of AUTOMIX SETUP.
- DANTE SETUP.....Enable to recall the parameters of DANTE SETUP.
- USER LAYER SETUP.....Enable to recall the parameters of USER LAYER SETUP.
- SYSTEM SETUP.....Enable to recall the parameters of SYSTEM SETUP(spectrum analysis ON/OFF, Auto solo for the MAIN , Digital level control, Background audio attenuation, Audio setup)

i). Click the "Mute Group" button to enter the Mute Group interface.

j). Patch, Refer to 5.16 PATCH for more details.

k). Dante Setup: Refer to 5.17 Dante setting interface for more details.

l). Auto MIX setup: Refer to 5.10 Auto mix interface for more details.

m). Digital Level Control: Click it to enter below interface.

DSP Control

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Digital Signal Input

Touch the "system unlocked" icon>>"Digital level control" button>>"Input channel" button on LCD screen to enter above interface, The 0dB set for the ON-status channel by default, Touch to light the corresponding parameter-box and then rotate the "parameter adjust" knob to adjust the gain value according to actual requirement.



Digital Signal Output

Touch the "system unlocked" icon>>"Digital level control" button>>"Output channel" button on LCD screen to enter above interface, The 0dB set for the ON-status channel by default, Touch to light the corresponding parameter-box and then rotate the "parameter adjust" knob to adjust the gain value according to actual requirement.

n). Restore Defaults: Touch the button to bring up a prompt box "Are you sure to reset to default settings", Click "OK" to confirm to restore defaulted settings. It means related DSP parameters user customized will restore default settings.

o). Update software: Touch the button to key in the passwords in pop-up prompt information, Or press the shortcut keys "View +Main Solo" to enter the software update interface. User can won the updated software from your supplier or log onto the official network to load down the updating package of software & images.

p). User Layers Setup, Refer to the 5.3 user layer interface for more details.

q). DCA Setup ,Refer to the 5.9 DCA setting interface for more details.

r). Password Setup: Touch the button to enter the password-setting interface.

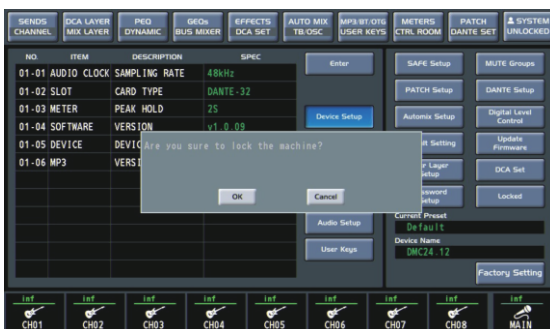


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DSP Control

s). Locked/unlocked mode

Touch the "LOCKED" button to pop up a prompt "Are you sure to lock the machine?", Click "OK" to enter locked mode. Under the lock mode, it is subject to the settings of "user setting" and disable function is invalid. A password dialogue frame will pop up once user clicks the locked function, Click it again to key in the passwords and then it will switch into system unlock mode from lock mode.



t). Current setting and device name will be displayed here, Click correspond setting box to pop up a virtual keyboard, User can customize the current settings and device name.



u). Factory Setting: Touch it to enter below interface and key in initial password DMC24.12 and then all set parameters will restore to the factory setting.



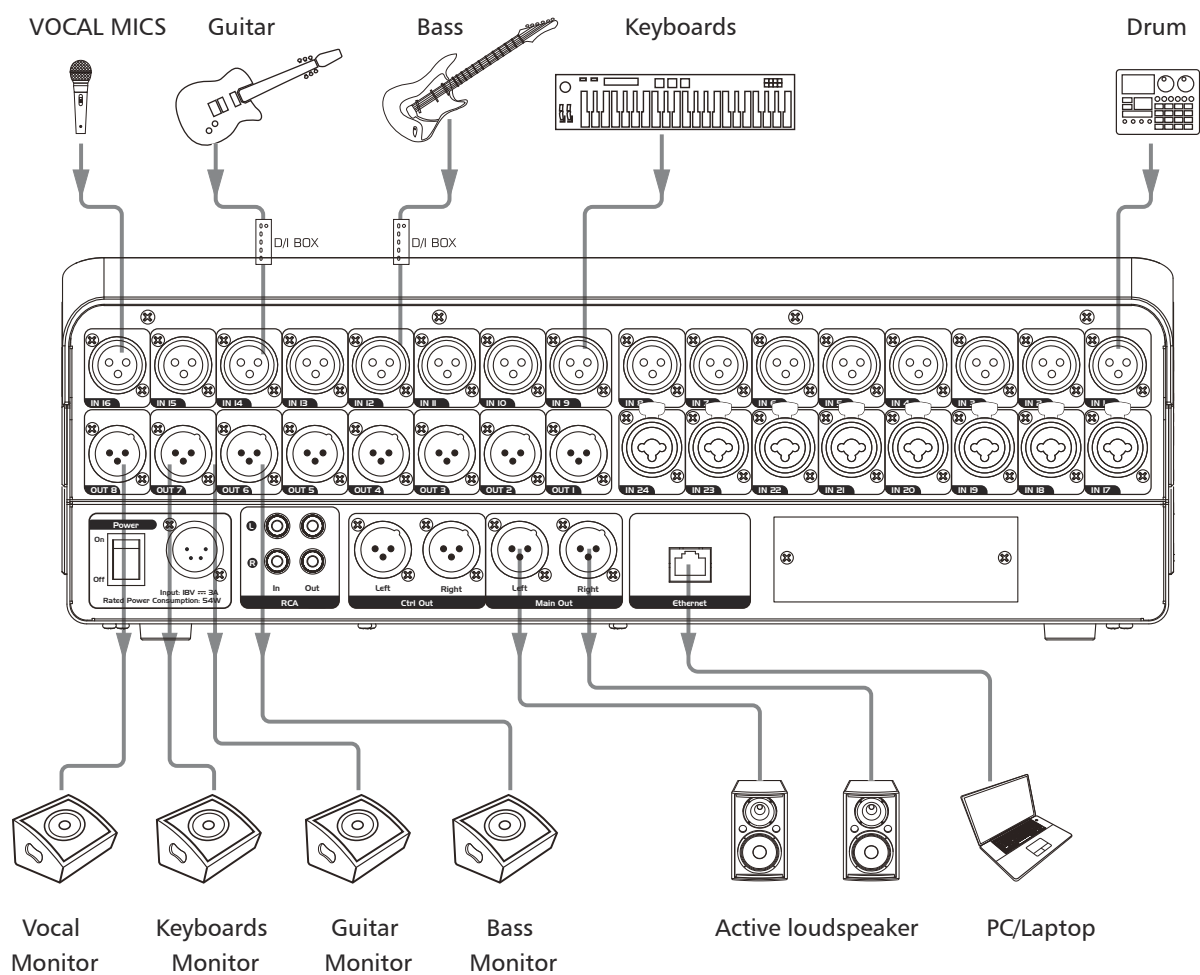
Software Update

Since function of the Digital Mixer will also change when you update the software, this manual can help you familiar with the basic function, for the precision, please refer to the real digital mixer.

We will always update the Digital Mixer software. Please contact with the supplier or download the package of updated software & images from the official network to upgrade your software.

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联机图





9

Technical Specification

Frequency Response	22Hz~20KHz at 0dBu +1/-2.5dB
Distortion(THD&N)	<0.03% at 0dBu 1KHz
SNR(Signal to Noise Ratio)	107dB
Maximum XLR Outputs Level	+20dBu ±0.5dB
Maximum HeadPhones Output Level	+20dBu ±0.5dB
Input to Output Crosstalk (at +0dBu 1KHz)	<-105dBu
Adjacent Channels Crosstalk (at +0dBu 1KHz)	<-105dBu
Bus Noise	<-89dBu
ADC Dynamic Range	113dB
DAC Dynamic Range	113dB
Internal Processor	32-bit , floating point
ADC bit depth	32bit
DAC bit depth	24bit
Input Impedances	6.8KΩ
Output Impedances	120Ω
Noise Gate	
Threshold Range	-84dBu ~ +19dBu
Attack time	0mS ~ 250mS
Release time	5mS~2S
Compressor	
Threshold Range	-83dBu - +20dBu
Attack time	0mS ~ 250mS
Release time	5mS ~ 2S
Ratio	1:1 to 40:1,inf:1
Gain	0dB - +12dB
EQ	
Low (LowPass or LowShelf)	20Hz~20KHz ±(15db±2db)
Low Mid	20Hz~20KHz ±(15db±2db)
High Mid	20Hz~20KHz ±(15db±2db)
High(HighPass or HighShelf)	20Hz~20KHz ±(15db±2db)
Dimensions	349*452*147mm
Weight	8.6 kg



