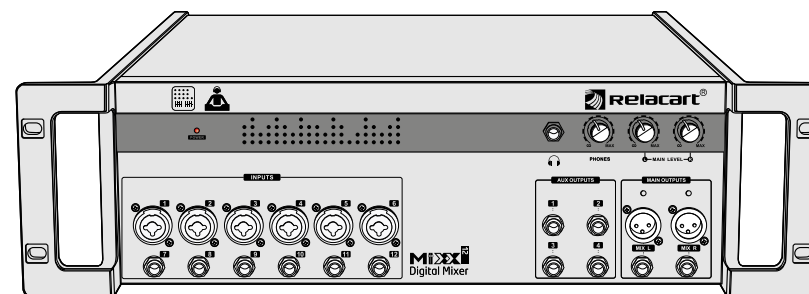


MiXX² DIGITAL MIXER

12 INPUT CHANNELS
10 OUTPUT CHANNELS



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Quick Guide



Quick Connect Guide

1 Application Download

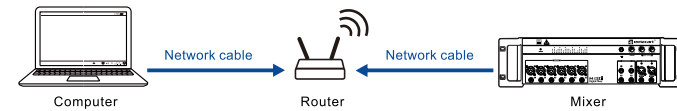
Open the APP Store application in IPAD, search MiXX12 to download and install.



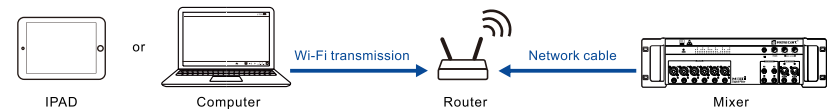
2 MiXX12 Connection Instructions

Mixer communicates with IPAD

1. The default configuration of the mixer network port is to automatically obtain an IP address, and you need to use a network cable to connect to the router to assign an IP address to the mixer. There are two connection ways:
 - A. Wired connection: Connect the PC network port and the mixer to the same router to establish communication with the mixer.



- B. Wireless connection: Connect the Wi-Fi of PC or iPad to the same router as the mixer to establish communication with the mixer.



2. Open MiXX12 Software. MiXX12 Digital..
3. Click the software connection status button or system setting button to enter the connection page.

4. Click "Search" to display the IP address, click the IP address and then click Connect.



5. After connection successfully, it will automatically jump to the channel homepage. The connection status button lights up blue to indicate that the connection is successful.

Introduction

Thank you for choosing RELACART Digital Mixer, and welcome you to join our team of tens of thousands of professional users. Our professional design and production experience ensure the excellent performance of our products in terms of quality, performance and stability.

Product Introduction

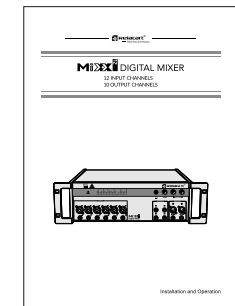
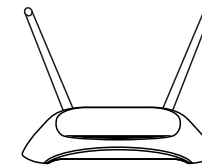
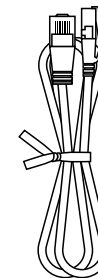
MIXX12/MIXX12-E is a digital mixer with 12 inputs and 10 outputs. It is a new mixer equipped with DANTE 4*4 digital audio transmission module. You can use a network cable to connect to the router for wireless control. Can support all Apple iOS tablets and Windows tablets. With 6-channel broadcast-quality microphone amplifiers (6 Combo sockets), 2 main outputs (Dual XLR + Dual 6.35mm sockets), 4 auxiliary outputs, 4 DANTE outputs. Adopt high-performance 40-bit floating-point digital signal processor and 24-bit AD/DA converter. Built-in effects processor, compression, threshold, parametric equalizer. The wireless control mode allows you to walk on the stage and among the crowd. A 12-channel digital live mixer that is perfectly touchable with a tablet such as an iPad.

Functions Include:

- Intuitive touch controls covering almost all major mixing functions.
- Mixer interface can adjust each channel control, including solo, mute, pan, fader, and see the complete level meter.
- The channel interface can control powerful DSP effects. The input channels include 4-band PEQ, high-pass filtering, compression, threshold, main output and auxiliary output, including 31-band graphic EQ and limiter. The effect channel includes reverb and echo.
- Each channel can be edited with names and icons for easy identification, and icons can be imported from the picture library.
- The +48V phantom power of each channel can be individually switched. (Channel 1-channel 6)
- Extremely low noise floor and extremely high headroom design.
- 4 auxiliary outputs, 4 DANTE outputs can be used to monitor the mix.
- Globally shared reverb and echo effects.
- Seamless access, you can adjust the target's audio at any position in the network domain, you can go directly to the stage to adjust their own monitoring, and wireless control gives the musicians on the stage the ability to adjust their own monitoring.
- Can connect a variety of DANTE equipment, such as wireless microphones, conference microphones, amplifiers and other equipment supporting DANTE communication.

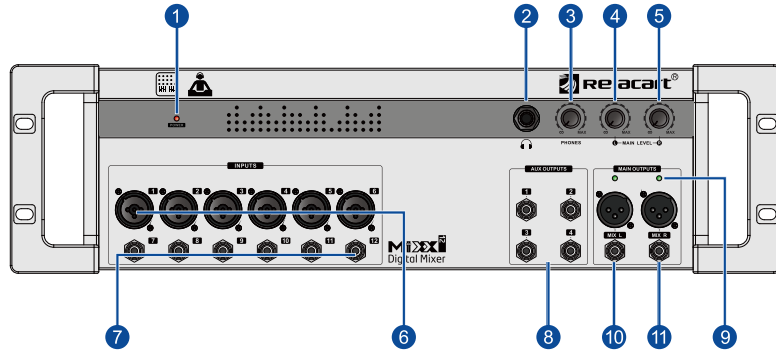
Packing List

MIXX12 Mixer
 Wireless Router *1
 Power cable *1
 Network cable *1
 Installation and Operation



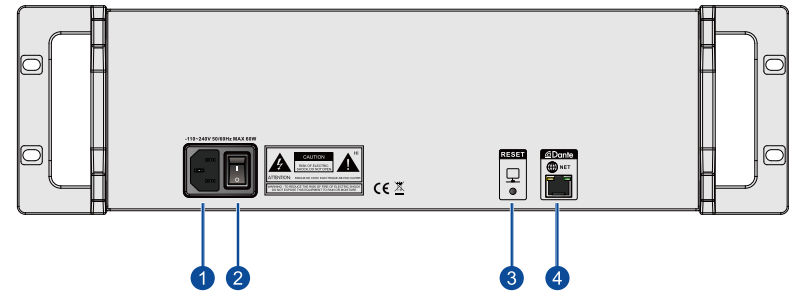
Function Introduction

MIXX12 (Digital Mixer) Front Panel



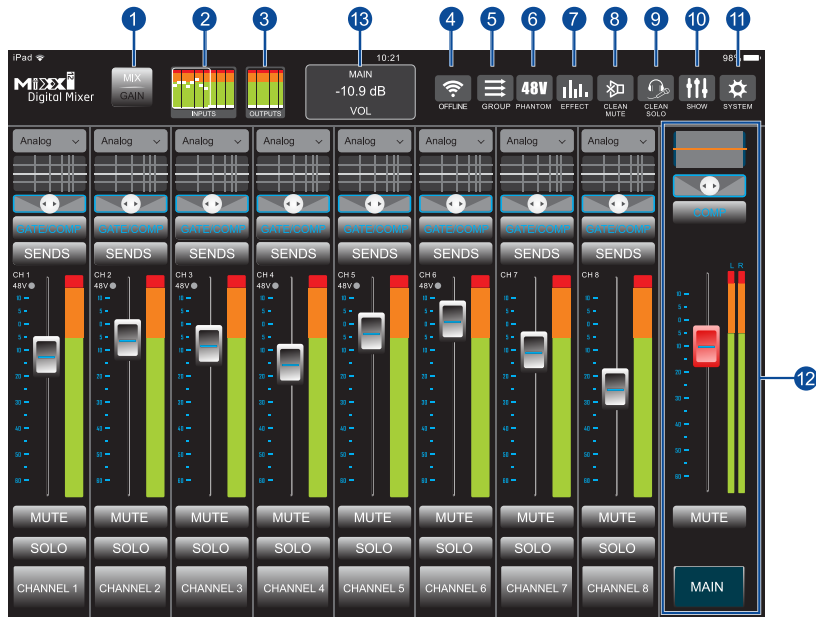
- 1 POWER: The power indicator is on to indicate that the power is on.
- 2 Monitor socket: 6.35mm stereo monitor output socket.
- 3 PHONE: Stereo monitor output volume adjustment potentiometer.
- 4 MAIN LEVEL-L potentiometer: The main output left channel volume potentiometer.
- 5 MAIN LEVEL-R potentiometer: The main output right channel volume potentiometer.
- 6 Input channel (MIC/LINE): 1-6 channels XLR and 6.35mm jack (JACK) compatible balanced input; Cannon type can independently control 48V phantom power.
- 7 Input channel LINE: 7-12 channel 6.3mm jack balanced input.
- 8 Auxiliary output (AUX 1-AUX 4): 4 unbalanced auxiliary outputs, each independently controlled.
- 9 MAIN OUTPUTS L/R LED: Main output audio indicator, not controlled by main output volume potentiometer.
- 10 MAIN OUTPUTS L: The main output XLR and JACK are output in parallel with the same signal.
- 11 MAIN OUTPUTS R: The main output XLR and JACK are output in parallel with the same signal.

MIXX12 (Digital Mixer) Rear Panel



- 1 AC power interface: Install the factory-configured power cord and connect 110V-240V 50/60Hz AC power.
- 2 Power switch: I/O boat switch, press " I " to turn on the power, press " O " to turn off the power.
- 3 RESET: Press and hold for 3 seconds to reset DANTE network IP address: 192.168.1.120.
- 4 DANTE network interface: The DANTE interface can transmit audio through the network, and can also control the mixer through software.

Instructions for using the interactive operation interface



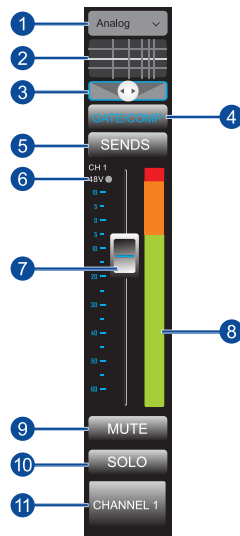
- 1 MIX/GAIN function switch: A switch that switches the fader to control channel level or control channel gain.
- 2 Input channel 1-12 window: Display the fader status and input level display of channels 1-12. Click to switch to the input channel page.
- 3 Output channels window: Display output channels AUX 1-4, DANTE 1-4. The fader status and output level are displayed. Click to switch to the output page.
- 4 Software communication status: The icon lights up in blue to indicate online, and gray to indicate offline.
- 5 Group function: You can edit mute group and control group to make the channel function work synchronously.
- 6 48V phantom power interface: Can independently control phantom power for channels 1-6.
- 7 Effect parameter setting interface: You can set the effect parameters of reverb and echo.
- 8 Clear mute switch: Mute all channels that are muted.
- 9 Clear monitoring: Turn off monitoring for all channels that have monitoring enabled.

- 10 Performance saving: You can save the set parameters to the performance interface, and use the saved scene next time after the software connects and communicates directly.
- 11 System setting interface: You can enter the connection page, and you can update the firmware.
- 12 Main output channel: You can control the function of the main output channel.
- 13 Function status display window: It is displayed in three lines, the channel currently being set in the first line, the parameters of the function currently set in the second line, and the function currently set in the third line.



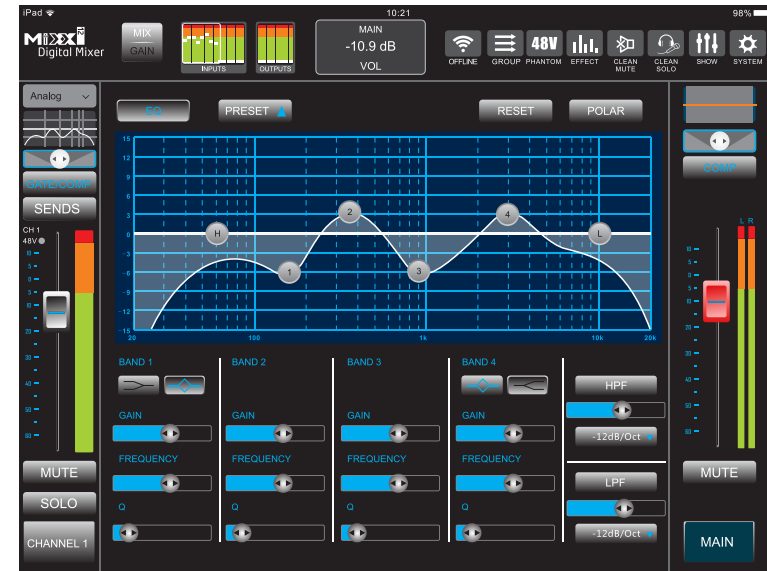
- 14 MIX/GAIN function switch: A switch that switches the fader to control channel level or control channel gain.
 - White text on a gray background MIX indicates the control channel volume fader (Silver gray).
 - White text on an orange background GAIN indicates the control channel gain fader (Orange).
- 15 Fader scale: Blue for volume scale and orange for gain scale.
- 16 Channel output volume fader: Silver gray adjusts output volume, orange adjusts channel input gain.

1 CH1-12 Input Channels



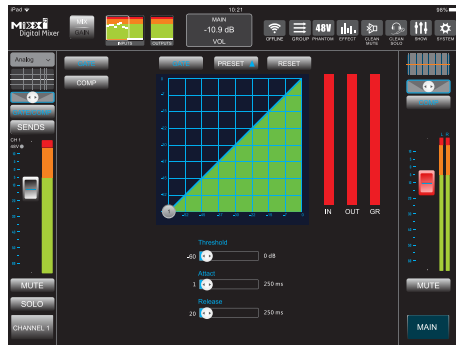
- 1 Signal source switching: You can select analog signal or DANTE 1-4 channel signal input.
- 2 Input channel EQ: 4-band parametric EQ, which can be arbitrarily controlled within the setting range, with built-in high and low pass functions.
- 3 Left and right sound image adjustment (PAN): Adjust the distribution of the sound source in the space, you can drag left and right, double-click to restore. If it is turned to the left, it is equivalent to putting the sound source on the left channel, Use this function in places where stereo sound is required.
- 4 GATE/COMP interface: Detailed parameter settings of noise gate and compressor.
- 5 SENDS: Send the volume of the current channel to the output channels AUX 1-4, DANTE 1-4 effect.
- 6 Phantom power status: 48V indicator light red indicates that the phantom power supply of this channel is on.
- 7 Channel fader: Drag the channel up and down to adjust the channel output volume. The adjustable range is -60dB to +10dB.
- 8 Volume level display: The input level display of the current channel.
- 9 Mute: mute switch. Click this button to turn off the output of the channel audio source.
- 10 Solo: Monitor switch, click this button, you can use the monitor headphones to hear the sound signal in front of the channel faders.
- 11 Channel name: Click this button to allow editing a new name or changing the color and image.

Input Equalizer: A total of 4-band parametric equalizer, of which BAND 1 and BAND 4 can be switched between the shelf and the bell shape, and the frequency, gain and Q value can be arbitrarily set within the range. Click “EQ”. When the font color turns blue, you can drag the band ball anywhere in the range to draw the equalization effect you want.



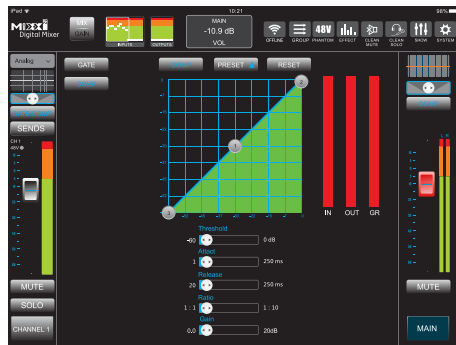
- Drag the band ball up and down to adjust the gain accordingly. The gain range is -15dB ~ +15dB.
- Drag the band ball left and right to adjust the frequency accordingly. The frequency range is 20Hz ~ 20KHz.
- Q value: Adjust the frequency bandwidth of the frequency sphere.
- HPF: High-pass filter, high-frequency signals can pass normally, while low-frequency signals below the set threshold are blocked and weakened.
- LPF: Low-pass filter, low-frequency signals can pass normally, while high-frequency signals above the set threshold are blocked and weakened.
- PRESET Save: Recall preset effects.
- RESET: Reset the parameters.
- POLAR: The sound wave phase is reversed.

Noise Gate: You can use the noise gate to set a level threshold, and the signal level above the threshold is normally amplified and lower than the threshold. The level of the value is off. Generally used to eliminate the background noise when there is no music signal.



- **Threshold:** Set the threshold value (ie critical level) of the noise door. The setting range is -60dB ~ 0dB.
- **Attack:** The time required for the noise gate to open after the input signal time-out threshold. The setting range is from 1ms to 250ms.
- **Release:** The time required for the noise gate to close after the input signal is less than the threshold. The setting range is from 20ms to 250ms.

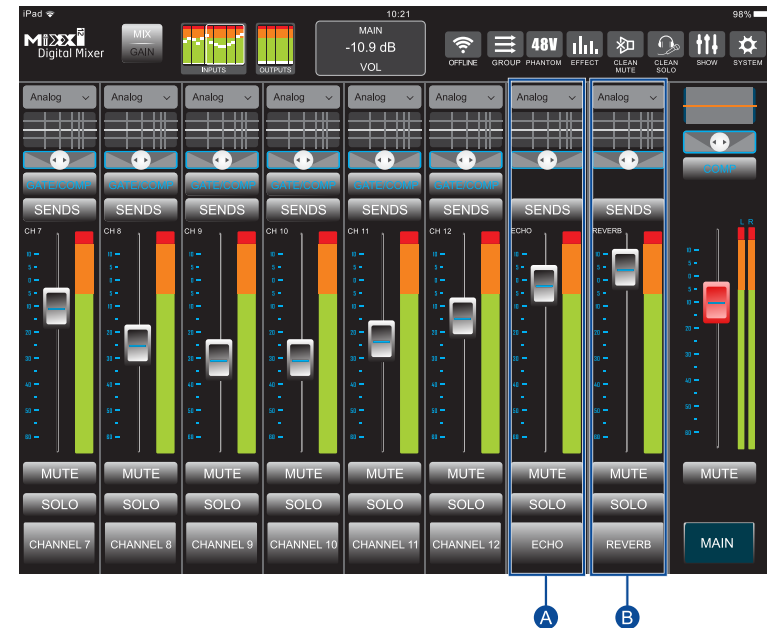
Compressor: An amplifier whose gain decreases as the input signal level increases.



- **Threshold:** Set the threshold value (ie critical level) of the compressor. The setting range is -60dB ~ 0dB.
- **Attack:** The time required for the noise gate to open after the input signal time-out threshold. The setting range is from 1ms to 250ms.
- **Release:** The time required for the noise gate to close after the input signal is less than the threshold. The setting range is from 20ms to 250ms.
- **Ratio:** The compression ratio is 1:1:1:10. The larger the compression ratio, the smaller the compression ratio. The smaller the compression ratio, the larger the compression ratio.
- **Gain:** Adjust the compensation gain of the compressor.
- **PRESET Save:** Recall preset effects.
- **RESET:** Reset the parameters.

2 EFFECT Echo/Reverb

Click this button, the main interface area is displayed as shown in the figure:



A ECHO

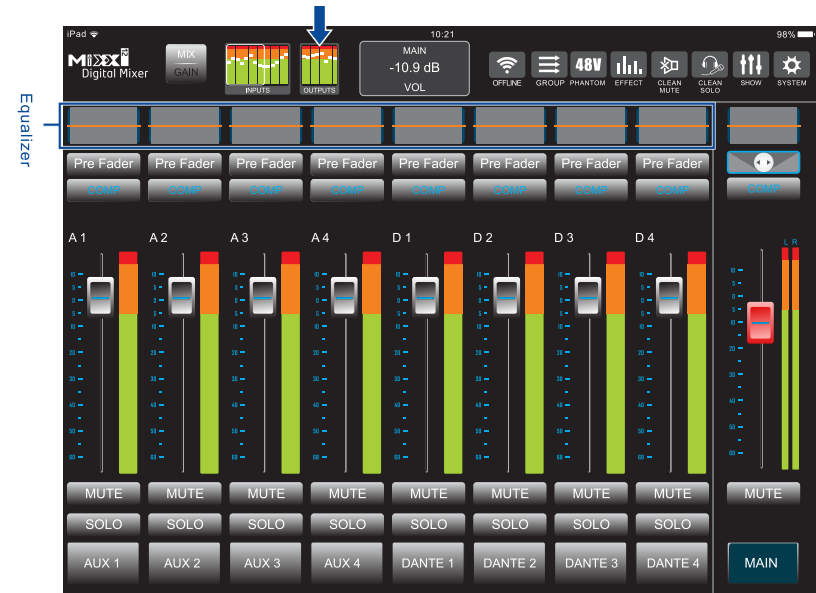
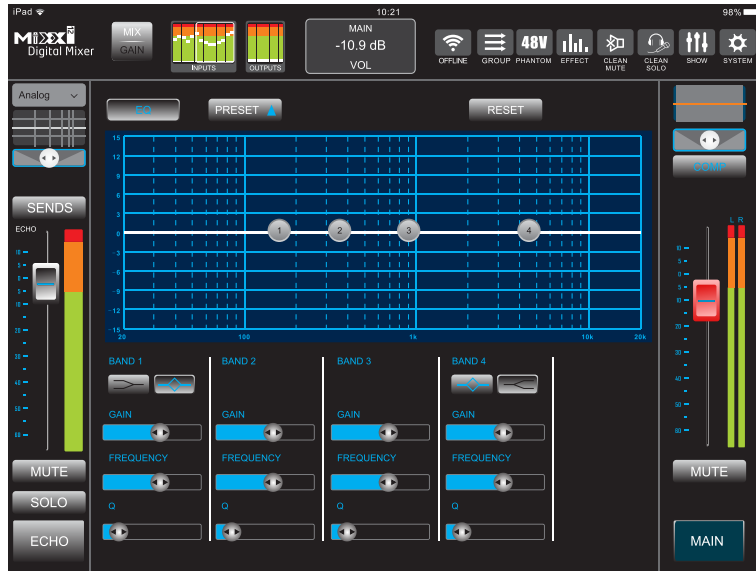
Input Equalizer: A total of 4-band parametric equalizer, of which BAND 1 and BAND 4 can be switched between the shelf and the bell shape, and the frequency, gain and Q value can be arbitrarily set within the range. Click "EQ". When the font color turns blue, you can drag the band ball anywhere in the range to draw the equalization effect you want.

B REVERB

Input Equalizer: A total of 4-band parametric equalizer, of which BAND 1 and BAND 4 can be switched between the shelf and the bell shape, and the frequency, gain and Q value can be arbitrarily set within the range. Click "EQ". When the font color turns blue, you can drag the band ball anywhere in the range to draw the equalization effect you want.

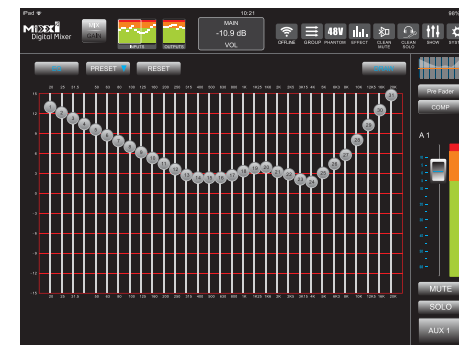
3 AUX1-4 / DANTE1-4 Auxiliary output / DANTE output

Click this button, the main interface area is displayed as shown in the figure:

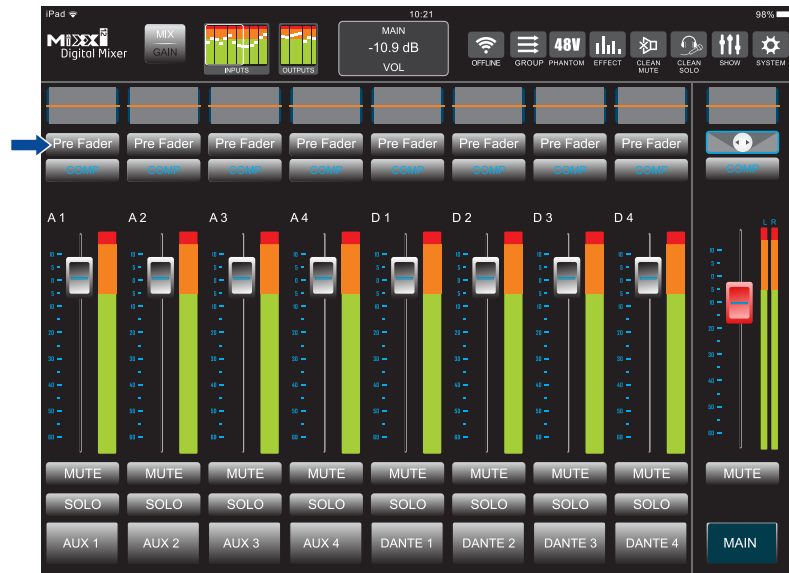


- Drag the band ball up and down to adjust the gain accordingly. The gain range is -15dB ~ +15dB.
- Drag the band ball left and right to adjust the frequency accordingly. The frequency range is 20Hz ~ 20KHz.
- Q value: Adjust the frequency bandwidth of the frequency sphere.
- PRESET Save: Recall preset effects.
- RESET: Reset the parameters.
- Left and right sound image adjustment (PAN): Adjust the distribution of the sound source in the space, you can drag left and right, double-click to restore. If it is turned to the left, it is equivalent to putting the sound source on the left channel, Use this function in places where stereo sound is required.
- Sends: Adjust the level of the sound source of each channel to the auxiliary output.
- Channel fader: Drag up and down to adjust, the adjustable range is -60dB~10dB.
- Mute: Mute switch, click this button to turn off the input of the channel audio source.
- Solo: Monitor switch, click this button, you can use the monitor to listen to the sound signal in front of the fader.

Auxiliary output equalizer: The standard 31-band graphic equalizer compensates the defects of speakers and sound field by adjusting various frequency bands. Click “DRAW”, and when the font color turns blue, you can drag the frequency ball in the range to draw the balance effect you want.

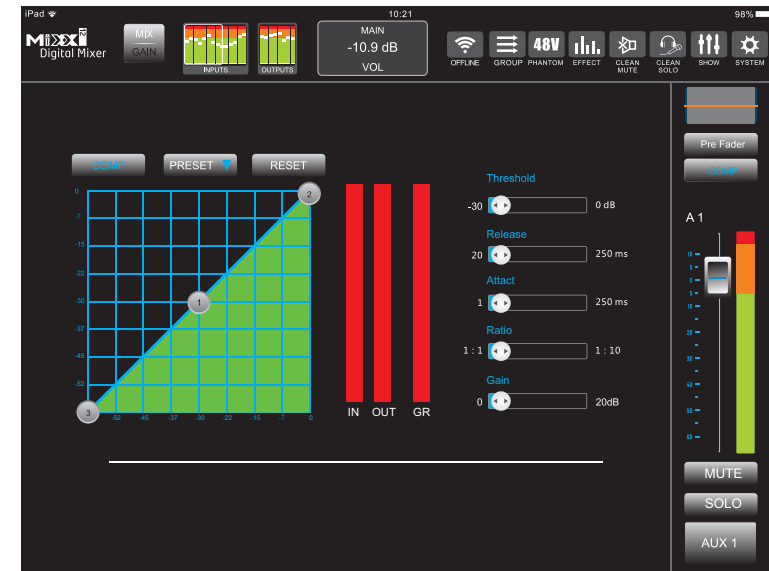


Before Fader: Click this button to select Pre Fader, Post Fader, or Pre Dsp (before digital processing). Before the fader indicates that the signal is not limited by the fader. If you don't push the fader, there is a signal output. After the fader, it means that the fader will not be pushed, and the signal will not be sent out.



- Pre Dsp: If you select this button, you will hear no preset analog sound.
- Auxiliary channel fader: Drag up and down to adjust, the adjustable range is -60dB ~ 10dB.
- Mute: Mute switch, click this button to turn off the input of the channel audio source.
- Solo: Monitor switch, click this button, you can use the monitor to listen to the sound signal in front of the fader.
- Channel name: Click this button to allow editing a new name or changing the color and image.

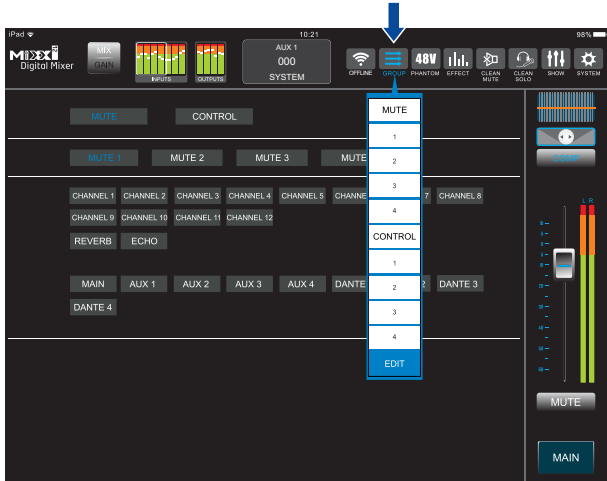
Compressor: An amplifier whose gain decreases as the input signal level increases.



- Threshold: Set the threshold value (ie critical level) of the compressor. The setting range is -60dB ~ 0dB.
- Release: The time required for the noise gate to close after the input signal is less than the threshold. The setting range is from 20ms to 250ms.
- Attack: The time required for the noise gate to open after the input signal time-out threshold. The setting range is from 1ms to 250ms.
- Ratio: The compression ratio is 1: 1: 1: 10. The larger the compression ratio, the smaller the compression ratio. The smaller the compression ratio, the larger the compression ratio.
- Gain: Adjust the compensation gain of the compressor.
- PRESET Save: Recall preset effects.
- RESET: Reset the parameters.

4 GROUP

There are 4 mute groups and 4 control groups. Click [GROUP], a pop-up picture is displayed, click " EDIT ", the main screen area enters the Mute/Control interface.



Control Group: After entering the control editing interface, as shown in the figure: Click " Control 1 ", select 1, 2, 3, 4 channels, then select the function you want to adjust at the same time, and then click the control group " 1 " in the drop-down menu. In this way, the parameters of 1, 2, 3, and 4 channels can be adjusted at the same time.

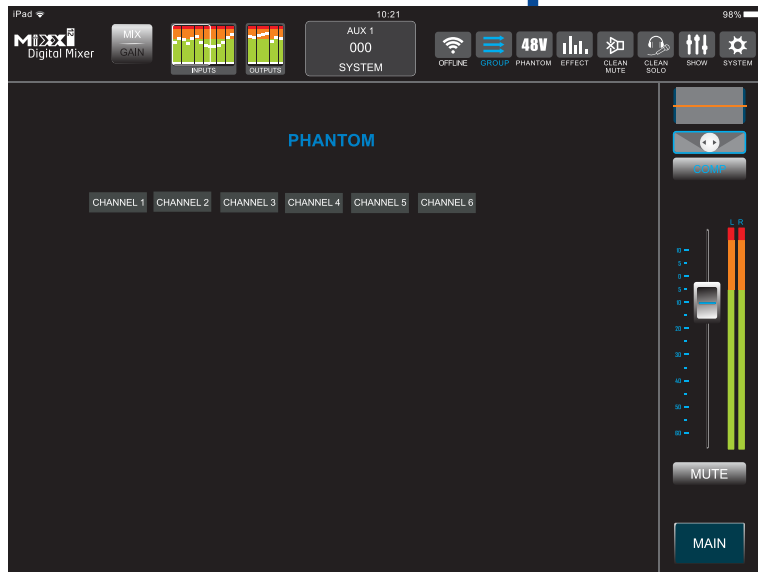


Mute Group: After entering the mute editing interface, as shown in the figure: Click "Mute 1" to select 1, 3, 6, 8 channels, and then click the group "1" in the mute dropdown menu, then 1, 3, 6, 8 channels are Mute.



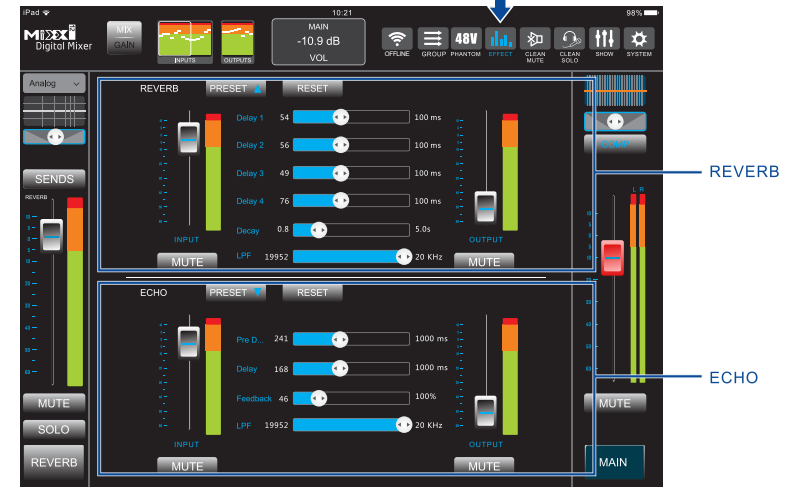
5 48V Phantom Power

Control the switching state of 48V phantom power of 12 input channels independently. Click this button, the main screen area is displayed as shown in the figure: which channel requires 48V power supply, click on the corresponding channel, the corresponding channel's 48V icon will light up.



6 EFFECT Mixing/Echo Parameters

Click this button, the main interface area is displayed as shown in the figure:



EFFECT (REVERB): Its role is to change the waveform of the original sound, adjust or delay the phase of the sound wave, enhance the harmonic components of the sound wave, and other measures to produce a variety of special sound effects, and apply Effects to the sound.

- Delay 1-4: The time required for the sound to return to the human ear after transmission, with a range of 30ms to 100ms. The 4-segment delay group makes the sound superimposed more delicate, making the sound effect fuller and more beautiful.
- Decay: The duration of the reverberation effect. The setting range is 0.1S ~ 10S.
- LPF: Low-pass filter, the setting range is 20Hz ~ 20000Hz.

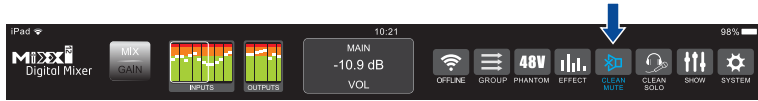
Delayer (ECHO): Delayer is an effector that produces echo.

- Pre Delay: Control the interval time of echo 1: The range is 10ms ~ 1000ms.
- Delay: Control the interval time of echo 2: The range is 10ms ~ 1000ms.
- The longer the delay time, the longer the interval between echoes, until the double or multiple sounds can be clearly heard.
- Feedback: The feedback rate of the echo effect, setting range (0% to 100%), controlling the number of echoes. When the feedback rate is 0%, the echo actually plays the effect of reverberation, and the feedback rate is 100% at this time, an endless echo effect will be formed, so the echo effect is generally controlled at about 30%.
- LPF: Low-pass filter, the setting range is 20Hz ~ 20000Hz.

The reverberator and echophone has the functions of preset saving, resetting parameters, input level, output level adjustment and mute switch function.

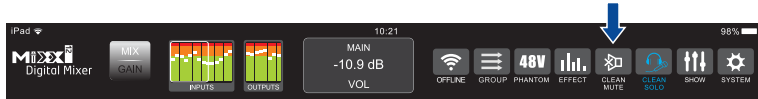
7 CLEAN SOLO

Click this button to cancel the monitoring function of all channels after 2 seconds.



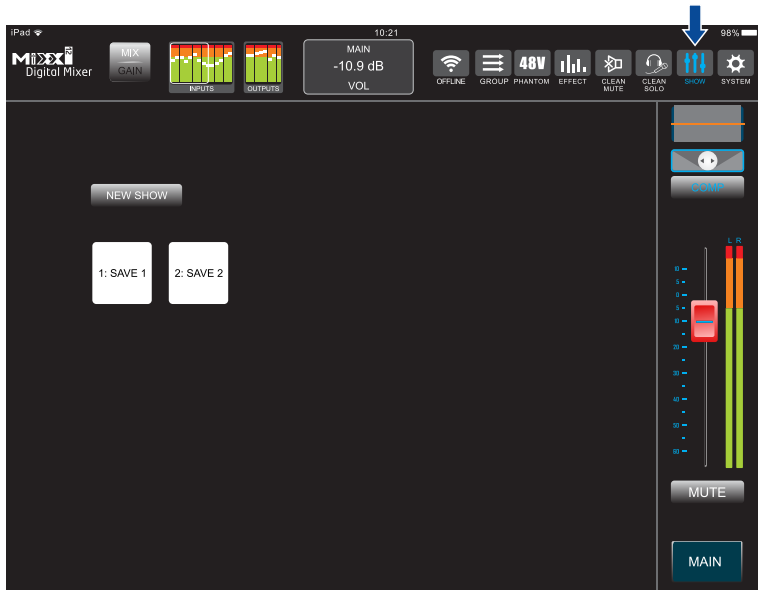
8 CLEAN MUTE

Click this button to cancel the mute function of all channels after 2 seconds.



9 SHOW

Save SHOW: After debugging all functions in the current performance scene, click “New SHOW”, and the system will automatically add a new save file. Click Save File to modify the file name, delete the file, and call the SHOW save (calling the SHOW save needs to be set when the communication is connected)

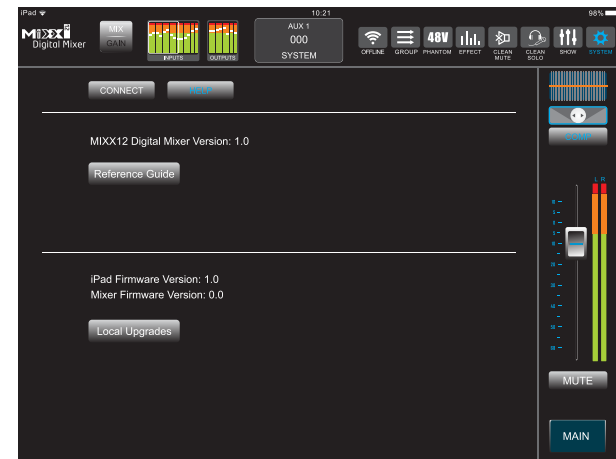


10 SYSTEM

Click this button, the main interface area is displayed as shown in the figure:



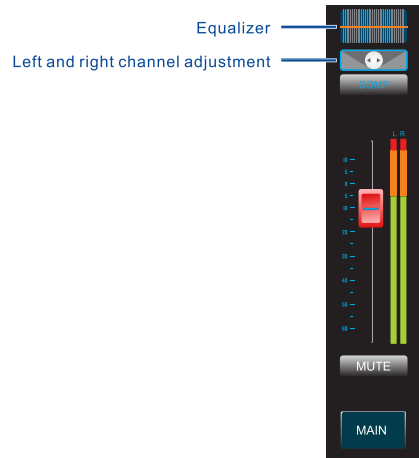
CONNECT: Connect to the target host through the searched host or manually enter the IP.



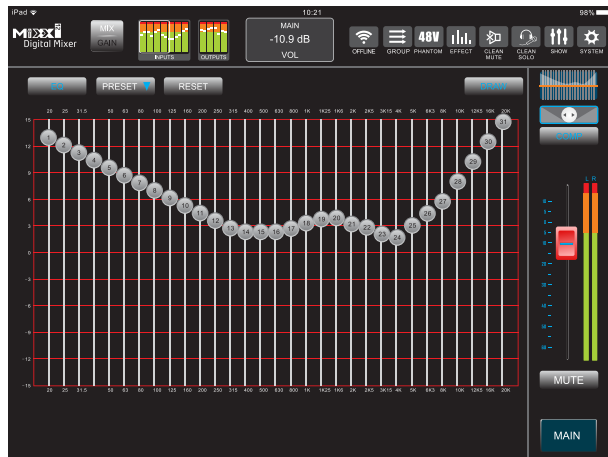
HELP: Provides a quick start guide and upgrades the console firmware over the network.

11 Main Output Controls

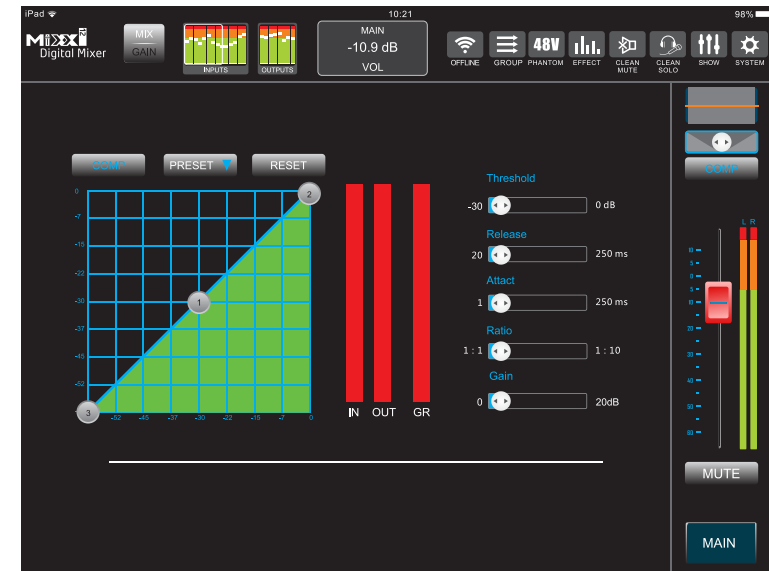
Main output channel function:



Main Output Equalizer: The standard 31-band graphic equalizer compensates the defects of speakers and sound field by adjusting various frequency bands. Click "DRAW", you can drag the frequency ball in the range to draw the equalization effect you want.



Main Output Compressor: You can set a level point. Once the signal exceeds this critical point, the volume will be attenuated and the overall volume will be stable, so as to avoid howling or overload the amplifier.



- **Threshold:** Set the threshold (critical level) of the compressor. The setting range is -60dB ~ 0dB.
- **Release:** The time required for the noise gate to open after the input signal time-out threshold. The setting range is from 1ms to 250ms.
- **Attack:** The time required for the noise gate to close after the input signal is less than the threshold. The setting range is from 20ms to 250ms.
- **Ratio:** The compression ratio is 1: 1-1: 10. The larger the compression ratio, the smaller the compression ratio. The smaller the compression ratio, the larger the compression ratio.
- **Gain:** Adjust the compensation gain of the compressor.
- **Main output fader:** Drag up and down to adjust, adjustable range: -60dB ~ 10dB.
- **Mute:** Controls the mute switch of the main output.

Home screen area (Varies according to the selected function)



No sound? Troubleshooting guide

Is the threshold closed?

Incorrect threshold processor settings may cause all signals to be intercepted. This happens most often when the threshold is set too high and the signal is not large enough to make the threshold "open".

Is the fader up?

The channel fader needs to be set to a sufficiently high level. If the problematic output path is in front of the fader, the fader position has no effect on its signal.

Is the output main channel path valid?

The inspection method is basically the same as the output channel inspection method, and the same inspection is run on the output channel.

Is the physical output valid?

Check the connections and your amplifier system. If the meter shows a valid output, then the problem may be with the physical output or after the physical output.

Specifications

Sample Rate:	24-bit, 48KHz
Frequency Response:	20Hz to 20KHz +0/-1dB
Latency:	1.5ms
T.H.D.:	< 0.1%
Noise-Mic input to main output:	-72dBv Single channel-Max fader (A weighted) -90dBv Single channel-Min fader (A weighted)
Input Crosstalk (Adjacent channel):	< -120dB @1KHz
Signal to Noise Ratio:	93dB Single channel-Max fader (A weighted)
Dynamic Range:	110dB Single channel-Max fader (A weighted)
Common Mode Rejection Ratio:	> 70dB @ 1KHz
Input Impedance:	3.3KΩ (XLR Balance); 30KΩ(1/4")
Gain:	Channel 1-6: +60dB; Channel 7-12: +20dB (1/4)
Output Impedance:	600Ω (XLR Balance)
Max Output Level:	+21dBu (XLR Balance)
Power Supply:	AC 100 - 240V, 50/60Hz
Dimension(mm):	488 (L) x 132 (H) x 191 (D)
Weight:	About 4Kg

PRECAUTIONS

Please read carefully before proceeding
Please keep this manual in a safe place for future refer - ence.

WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/Power cord

- Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.
- Use only the power cord provided.
- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over or roll anything over it.
- Please be sure to connect to an appropriate power outlet with a protective grounding connection. Improper grounding may cause electric shock.

Do not open

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. This device contains no user - serviceable parts, If it should appear to be malfunctioning, discontinue use immediately.

Warning about humidity

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

If you notice any abnormality

- If the power cord is frayed or damaged, there is a sudden loss of sound during use of the device or it emits unusual smells or smoke, please turn off the power switch immediately.
- If this device should be dropped or damaged, immediately turn the power off, disconnect the electric plug from the outlet.

CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These pre - cautions include, but are not limited to, the following:

Power supply/Power cord

- Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.

Placement location

- Before moving the device, remove all connected cables.
- When setting up the device, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn the power off and disconnect the plug from the outlet.
- If the device is installed in EIA standard brackets, keep the back of the brackets open and keep the device at least 10cm away from a wall or surface. In addition, if the equipment is installed together with power amplifiers and other equipment that generally generate heat, please make sure that there is enough space between the equipment and the equipment that generates heat, or install ventilation panels to place the equipment inside to achieve high temperature.
- Poor ventilation can lead to overheating and can damage equipment or even cause a fire.
- Avoid setting all equalizer and level knobs to their maximum. Depending on the condition of the connected devices, doing so may cause feedback and may damage the speakers.
- Do not expose the device to excessive dust or vibration, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day), in order to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.
- Do not block the ventilation holes. This device has ventilation holes on the front and back to prevent excessive temperature inside the device. Be especially careful not to place the device on its side or upside down. Poor ventilation can cause overheating and can damage equipment settings and cause fires.
- Do not use the device in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the device, TV, or radio may generate noise.

Connections

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.
- When connecting the speaker to the speaker jack, use the speaker cable. Using other kinds of cables can cause fires.

Handling Caution

- When turning on the AC power in your audio system, always turn on the device FIRST, to avoid speaker damage. When turning the power off, please first turn off the device or the external power amplifier.
- Do not insert fingers or hands into any gaps or openings (vents, etc.) of the device.
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings (vents, etc.) on the device. If this happens, turn off the power immediately and unplug the power cord from the AC outlet.
- Do not use speakers or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.
- Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.
- The power plug of the device should be plugged into a grounded socket.
- When cleaning the device, use a dry and soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical - impregnated wiping cloths.