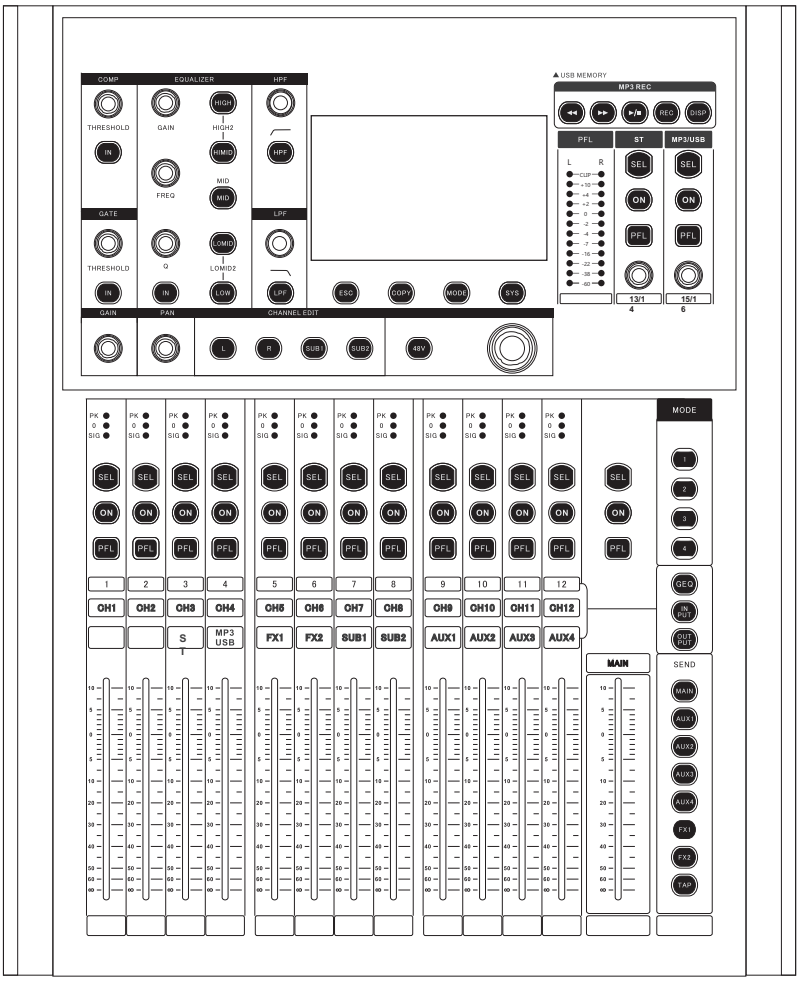
adertech

MD-PR016

16-channel professional digital mixer



Operating instruction

Safe Use Matters

Before using the device, please read the instruction manual carefully and follow the warnings about operation and use. The instruction manual should be kept for future reference.

◆ The device can only use the power supply type marked in the manual.

◆ Attention should be paid to avoid the power cord being squeezed by heavy objects, especially attention should be paid to the plug of the power cord, the outlet of the device and the convenient socket, and avoid pulling or pumping the power cord.

◆ Can not be used near the water source, such as: bathtub, sink, kitchen sink, wash basin, wet basement, swimming pool, etc.

◆ The device must be away from heat source.Examples: radiators, heating resistors, stoves and other heating devices (including amplifiers).

◆ Care must be taken to prevent objects or water from falling into the inner core.If dropped into metal or other conductive material, there is a risk of electric short circuit inside the device.

◆ Because the machine memory has high voltage, non-electronic professional and technical personnel, do not remove the casing, if the internal electronic parts are abnormal contact, serious electric shock may occur

Reason.The company is not responsible for this incident.

◆ Do not use volatile solutions.Such as: alcohol, paint thinner, gasoline, volatile oil and other wipe the shell, the use of clean dry cloth.

◆ In case of abnormal odor or smoke, cut off the power supply and pull out the plug immediately, and contact the supplier or the nearest maintenance department for maintenance service.

In pieces A.For safety, please disconnect the power switch and unplug the power plug.In case of fire.

B.To prevent water, metal, flammable products or other foreign matter from falling into the machine, so as to avoid electric shock and fire accident.In case of such an accident, please cut off the power immediately.

Discontinue use.And with the company's service center or the purchase shop contact, seeking maintenance services.

◆ Do not put the power plug under the machine or between other items;Do not set the power supply in the place with frequent traffic, so as not to cause damage to the plug

An electric shock or fire accident occurs.



Warning:
Do not press the power plug under the machine or between other items;Do not set the power in the personnel come
To frequent places to avoid electric shock or fire accidents caused by broken plugs.

Customers need to know

Dear customers,
Thank you for choosing this product!In order to ensure the safety of you and the machine, as well as to enable you to fully enjoy the best product experience, be sure to read this manual carefully before connection or operation, and please keep this manual for future reference after reading.
Open-box inspection:
After unpacking, please first confirm whether there is any damage caused by transportation, and connect the wire according to the requirements of this manual and test each function. If there is any problem, please inform the sales department immediately.



Note:

- When buying the machine, please check whether the bar code on the back plate of the case is complete, and whether the random accessories are complete.
- Non-designated maintenance department opened the machine will not be within the scope of the three packages.
- It is recommended that you keep the removed packaging materials and accessories for future handling or maintenance.

directory

Begin to use 4

Function is introduced 6

Input channel 11

The effect of channel 12

Marshalling channel 13

The auxiliary channel 14

Digital channel 15

System Settings 16

Mp3 page 16

Load/save mode 17

Copy the page 17

The machine features

This product is a novel and unique multi-function digital mixer, with small size, light weight, full function, intuitive and simple operation, quick response and many other advantages. Application scenarios: performance, conference, rental, school, church, cultural hall, wedding, concert, family, band and other occasions.

1, 12 MIC input 1 set of stereo input,1 digital input: optical fiber/sound card, MP3

2, input channel audio and image adjustment

3. MIC input gain adjustment (digital gain)

4. +48V phantom power supply (MIC channels can be opened and closed independently)

5, Built-in noise door, pressure limiter, high and low pass, 5-section parameter balance, delay, sound and image balance adjustment of transmission channel

6. Fast copy of channel parameters

7, Input and output EQ ON/OFF

8. Multi-function knob

9, each channel is equipped with multi-function menu, dumb voice and monitoring 10, The channel is equipped with 100MM electric push rod, signal, peak light (13 ALPS electric push)

11, 8 signal output (main output L,R,4 AUX output,2 marshalling output)

AUX output (Push front/rear)

13, output processing: high and low pass filtering, 12 section parameter equalization, compressor, delay, phase

14. Digital recording function

15, Users can customize the layer, output mixed editing function

16, Double row 3 color 12 level indicator light

17, built-in sound card (MP3, PC directly play music)

18. Four quick scene invocation modes and 20 scenes storage

19. Storage and fetching of user parameters (can be managed on PC)

20. Built-in two-channel dual-DSP effector

21. FX foot switch interface

22. Optical fiber input/output

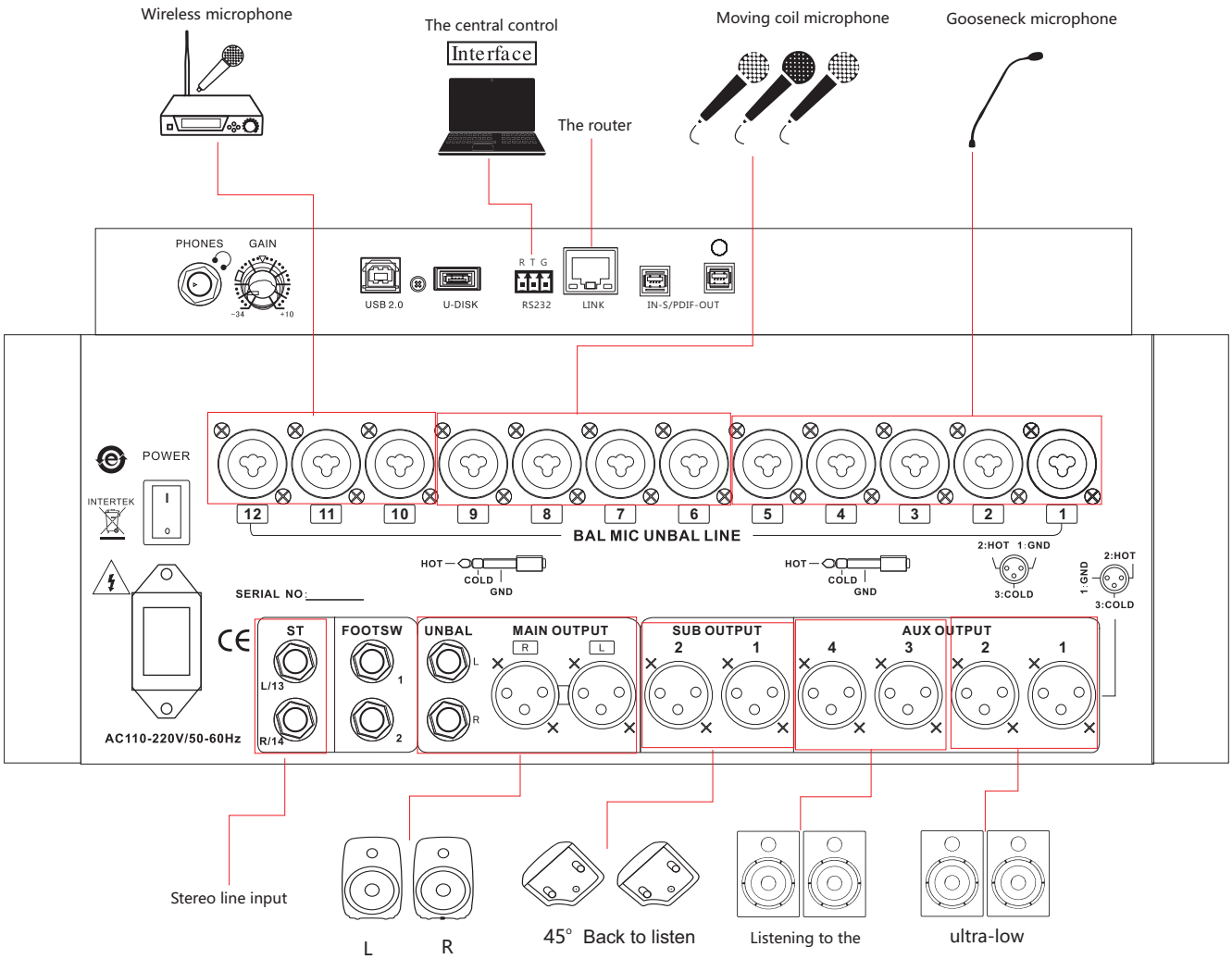
23. Multi-operating system control software (IOS system, Android system, Windows system)

24, support wired network port adjustment (or external router wireless adjustment) 25, 5 inch touch screen

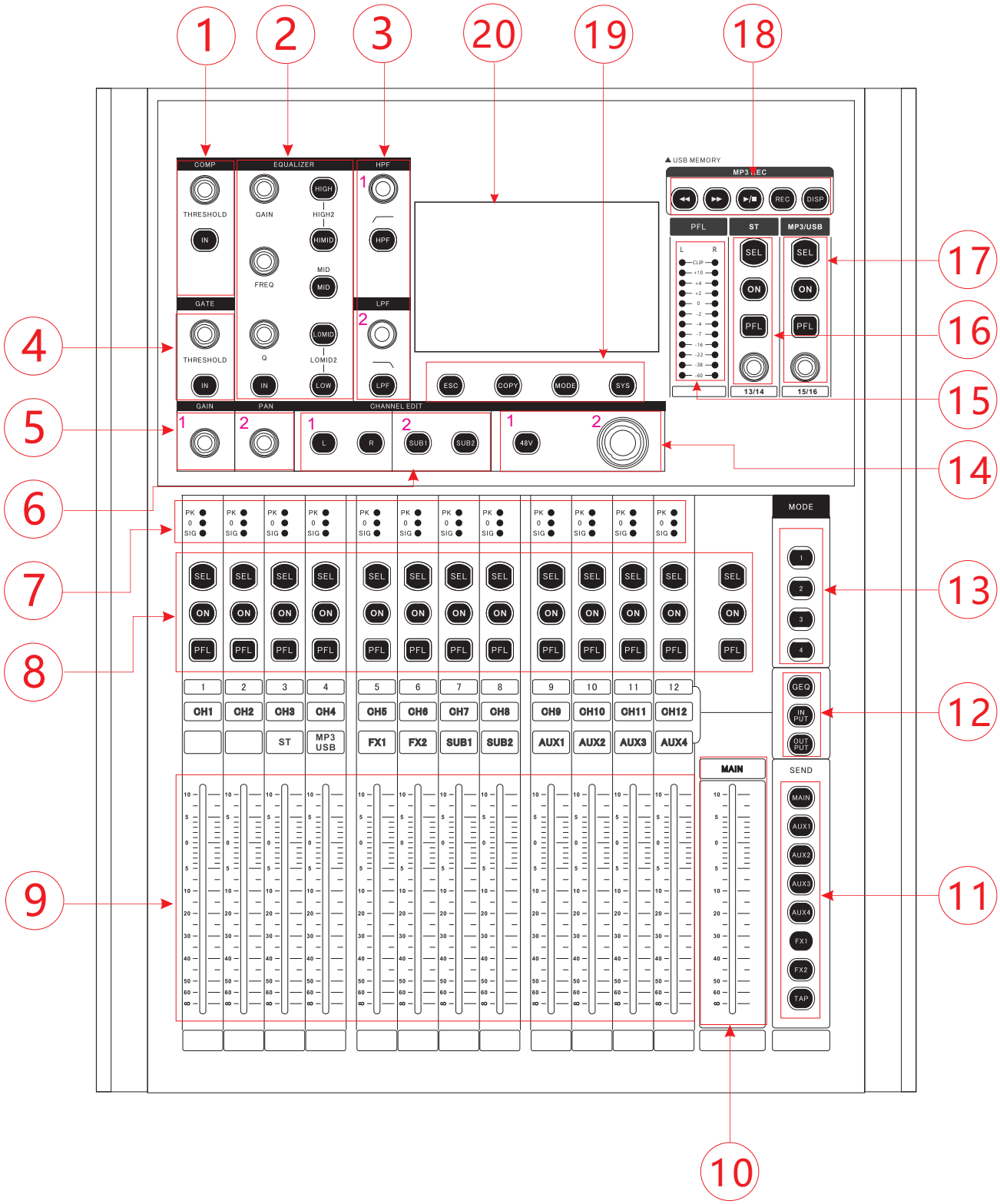
Quick to use

1. When the mixer is turned off, select one MIC/ LINE input channel, plug in the microphone or CD player and other external audio source to connect to the mixer, please make sure before connecting Keep the access channel mute or push the physical push to the lowest position.
2. Access the L/R main output interface at the back of the mixer with the audio casson cable, and connect the power amplifier at the other end to the speaker.
3. Switch on the power supply and turn on the mixer, wait for the mixer to completely start up, and then turn on the power amplifier.
4. After starting the mixer, push the physical pusher inserted into the MIC/ LINE input channel to the appropriate position.
5. Then also push the physical pushers of the main output to the appropriate position.
6. Adjust the input gain of the input channel to make the input signal achieve the appropriate dynamic.
7. If you are connected to a capacitive microphone or other device that requires power, turn on the Phantom Power.
8. According to the demand of the signal source, the equalizer is used to enhance or weaken the corresponding frequency band, and the compressor and threshold are used to control the dynamic range.
9. Send input signals to each effector, output bus and main output.
10. Change the main push until the sound system produces the right amount of sound.

Quick to use


Wireless microphone
The central control
Interface
The router
Moving coil microphone
Gooseneck microphone
PHONES
GAIN
USB 2.0
U-DISK
RS232
LINK
IN-S/PDIF-OUT
POWER
INTERTEK
12
11
10
9
8
7
6
5
4
3
2
1
BAL MIC UNBAL LINE
HOT
COLD
GND
2:HOT 1:GND
3:COLD
SERIAL NO:
ST
FOOTSW
UNBAL
MAIN OUTPUT
SUB OUTPUT
AUX OUTPUT
L/13
R/14
AC110-220V/50-60Hz
Stereo line input
L
R
45° Back to listen
Listening to the
ultra-low

Features - Front panel



Features - Front panel

1. Channel COMP/ limiter

1). This knob can adjust the threshold size of the pressure limiter. When the pressure limiter switch is opened, the adjustment is effective.2). In button is to open and close the limiter.

2. Channel EQ/ Equalizer

1). Equalizer parameter knob

Up to down means: gain, frequency and Q value.

2). Parameter equalizer button

The shortcut keys of the parameter equalizer are: treble, medium treble, medium, bass and bass (from top to bottom).

After lighting the corresponding keys, match the three parameters on the left

Adjust the knob to adjust the EQ parameters,

Note: EQ adjustment is only effective when the EQ switch (ON key) is turned ON.

3, channel HPF/LPF(high-low pass filter)

1).(HPF) high pass knob/high pass switch

Adjust this knob to reduce the low frequency signal, HPF button is high frequency on and off.

2).(LPF) Low Pass Knob/Low Pass Switch

Adjust this knob to reduce the high frequency signal, LPF button is low pass frequency on and off.

The high-low pass filter can be treated as a frequency divider

4, Input channel GATE/ noise GATE

This knob can adjust the threshold size of the noise door. The IN button is to open and close the noise door.

5. Input channel gain/audiovisual control knob

1). Gain control

Adjust this knob to increase or decrease the input signal level.

2). Audio and video control knob

Controls the proportion of signals sent from the current channel to the main output L channel and R channel.

6. Channel signal routing and sending

1). The current channel signal is sent to the main output channel L and channel R (just light up).2). The current channel signal is sent to the marshalling output SUB1-2(just light it up).

7. Channel signal indicator light

1).PK peak indicator

This is used to indicate that the channel's signal is approaching distortion (restricted).

2).0 signal indicator light

The light is on, indicating that there is a signal input on this channel.

3).SIG signal indicator

The light is on, indicating that there is a signal input on this channel.

8, channel selection key/mute key/listening key

1).SEL channel selection key

The button lights up to indicate that a channel has been selected and that channel parameters can be edited.

2).ON mute switch

Channel mute switch. When off, it means the channel is in mute state and you will not hear the signal of the channel

3).PFL monitor switch

When this button is pressed, the signal will be output from the listener and the headset.

9. Passage pushers

This is used to control the level on the current channel (electric push).

10. Main output push

Used for adjusting the size of the hybrid main output level (electric push).

Features - Front panel

11. Push mode button (signal routing)
1). Main key in push mode
When the MAIN light is on, it means that the current push is at the push level of the corresponding channel, and this level is controlled by the push level of the corresponding channel.
Long press this button to lock the mixer. At this time, the channel parameters will not be adjusted. Long press again to unlock.

2). AUX1-AUX4 output by pushing mode button
When the page-turning button IN is lit, press the AUX button to flash, and the pusher is IN the signal level state sent from the input channel to the corresponding AUX auxiliary output.
The transmission size is controlled by the pushers of the corresponding channel.

3). Push mode button FX1 / FX2
When the page-turning button IN is lit, press the FX1-FX2 indicator light flashes, and the pusher is IN the input channel and sends to the signal level corresponding to FX1-FX2.
The send size is controlled by the push of the current channel.

4). Tap effect tempo button
Effect 1: Short delay in delay Long delay is the metronome effect,
Effect 2: Delay click the Tap button to change the echo delay time of the speed effect in a short delay.
12, input/output channel push page turning button
1).GEQ- When the output channel is selected, this button is effective. When the button is turned on, the push is in control of the gain of 12 segments of the output equalizer
2). In - When this button is on, the push controls the channel level (CH1-CH12) corresponding to the input channel of the first layer.
3).OUT- When this button is on, the push controls the corresponding level size of the second channel (ST stereo, digital channel, FX1, FX2, SUB grouping output and AUX auxiliary output).
13. Quick call button in scene mode
Click the corresponding button to quickly call up the first four modes of the scene mode.
14, + 48V switch/multi-function knob
1).48V phantom power button
Long press the button for 3 seconds to turn on the 48V power supply of the current channel and light it, indicating that the MIC jack has 48V voltage.
Note: Do not turn on the phantom power until you have connected the microphone.
2). Multi-function knob
Touch this knob to adjust the parameters with the display screen.
15, input and output monitoring signal indicator light.
16. Stereo input channel
1).SEL channel selection key
The button lights up to indicate that a channel has been selected and that channel parameters can be edited.
2).ON mute switch
Stereo channel mute switch, off means that the stereo channel is in dumb state, you will not hear the signal of the channel
3).PFL monitor switch
When this button is pressed, the signal will be output from the listener and the headset.
4). Volume knob
This knob currently controls the volume of the stereo channel and can also be controlled by the stereo pusher on the second layer of the pusher (out).
17, digital input channel (MP3/ sound card control)
1).SEL channel selection key
The button lights up to indicate that a channel has been selected and that channel parameters can be edited.
2).ON mute switch
Digital channel mute switch, when off the channel will be in mute state, you will not hear the signal of the channel
3).PFL monitor switch
When this button is pressed, the signal will be output from the listener and the headset.
4). Volume knob
This knob currently controls the volume of the digital channel and can also be controlled by the digital channel push of the second layer of the push layer (OUT).
18. MP3 operation area
1). Disp - When the USB flash drive is inserted, the system will automatically recognize the USB flash drive. Click this button to enter the page of the MP3 player.
2).rec - When this button is flashing, recording is in progress, and when it is not flashing, recording is paused.

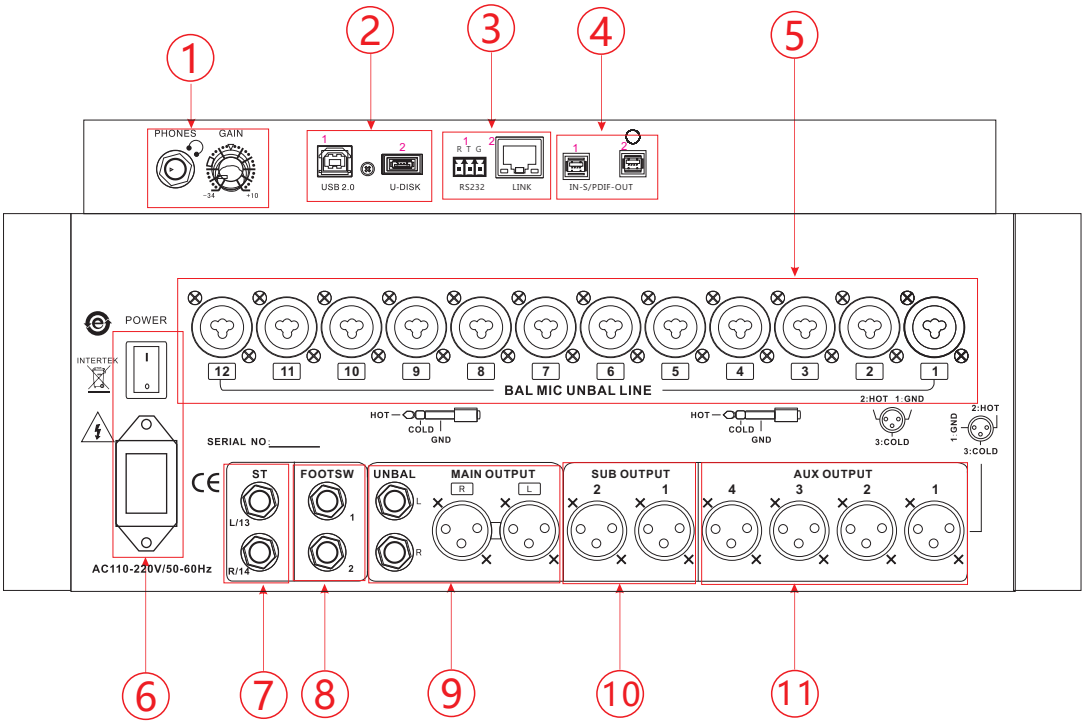
Previous, Pause/Play, Next
19, System key area (ESC,COPY, MODE, SYS keys)
1).ESC button: Click this button to return the LOGO page.

2). Copy button: When entering the channel page, long press this button to pop up the channel COPY page. Select the channel to be copied to and click this button again
Button to copy the parameters of the previous channel to the corresponding channel..
3). Mode button: Click this button to enter the scene MODE page for storing and calling the scene.

4).SYS system button: Click this button to enter the system setting page, language setting, network setting, version information and software update and other operations.

20. Touch screen

Features - later version



1. Monitoring headphone jack/and monitoring knob

Insert the headset into this jack. It is recommended that the impedance of the headset be greater than 150oHM.Monitoring level knob This knob is used to control the monitoring signal level.

2. USB interface

1).USB2.0: Connect the computer software debugging and audio card audio input interface. 2). U-Disk: U DISK interface, MP3 audio input and system upgrade interface.

3, 1). Central control RS232: external 232 central control device control connection.

2). Link: External router network cable connection control.

4, optical fiber signal input/input

1). In port is the fiber input 2). Out port is the optical signal output end.

MIC/ LINE microphone input interface

All balanced input ports, 12 XLR socket, can be connected to XLR line can also use 1/4" TRS line is connected to audio signal source.

6. Power input port and switch

110V-220V power interface.

7. Stereo input

Stereo line input interface.

8, effect switch jack

This is the connection of the foot switch.If necessary, you can connect it here

9. Main output LR output interface

L/R outputs signals to power amplifiers or other amplifiers.

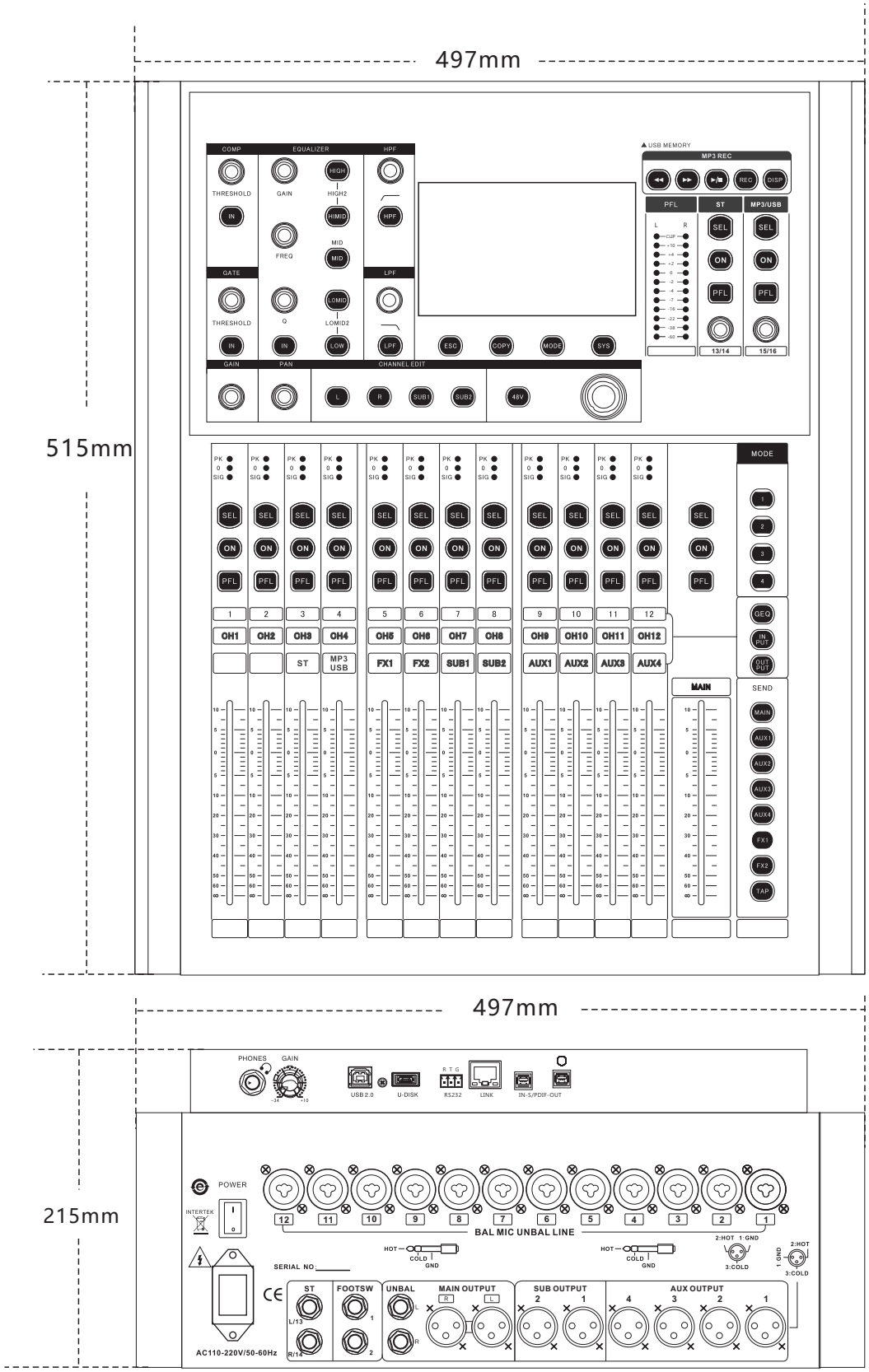
10. SUB1-2 marshalling output

SUB1-2 marshals output signals to power amplifiers or other amplifiers.

11. AUX1-4 auxiliary output

AUX1-4 auxiliary output signals to power amplifiers or other amplifiers.

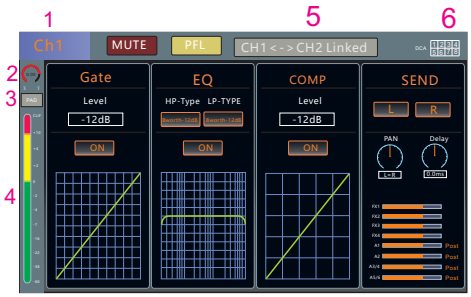
Function introduction - product size



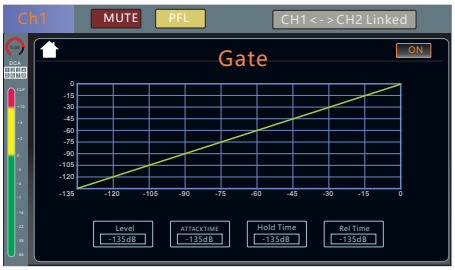
Length, width and height: 497*515*215MM (length includes 6.35 input seat, width includes side plate, height includes machine leg;Knobs not included)

Packing size: 620*620*310MM Net weight: 9.96kg Gross weight: 12.5kg

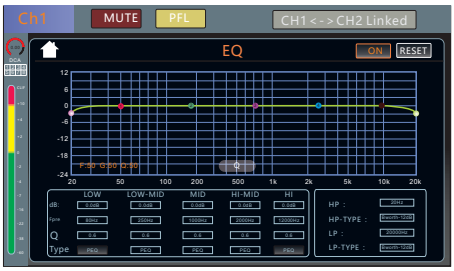
Input channel



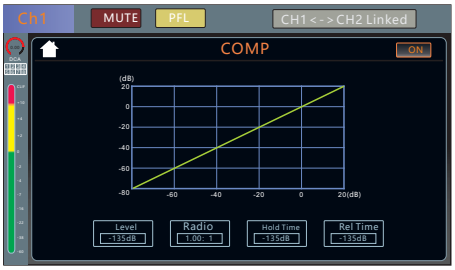
Channel main plane



Channel noise page



Channel equalizer page



Channel Limiter page



Channel sending page

Enter the main page of input channel 1 by default.

Input channel page has noise gate, equalizer, voltage limiter, send.

1, Gain: Gain/GAIN knob on the panel to control the size. 2, display the current channel signal level.

3. Touch the corresponding function area to enter the function page.

4. Click to select the parameters to be adjusted, and then use the multi-function knob to adjust.

5. Click the upper left corner of the function page to return to the main page of the channel.

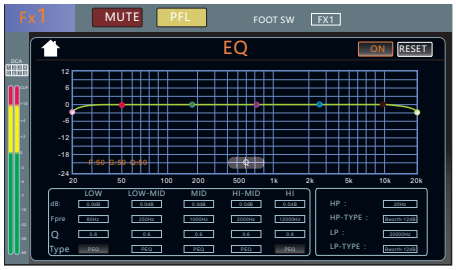
The effect of channel



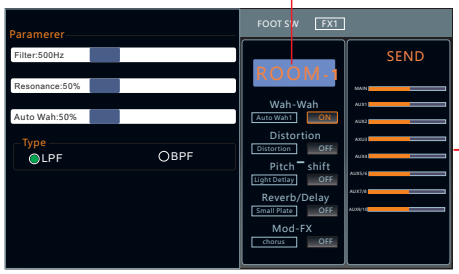
Main page of effect



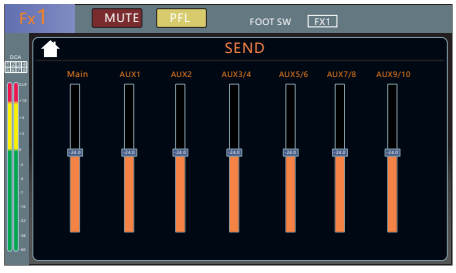
Effect volume source page
Displays the status of the input channel sent to the current effect



Effect equalizer page



Effects user effects parameter page



The effect is sent to the output channel page

How to enter the effector page.

Find the word "Write (FX) effect channel" on the screen print on the right output push layer board, and click the SEL button to turn on FX effect to enter the main page.

Effects channel page has volume source, equalizer, user effects, send.

1. Touch the corresponding function area to enter the function page.
2. Click to select the parameters to be adjusted, and then use the multi-function knob to adjust.
3. Click the homepage icon in the upper left corner to return to the main page of the channel.

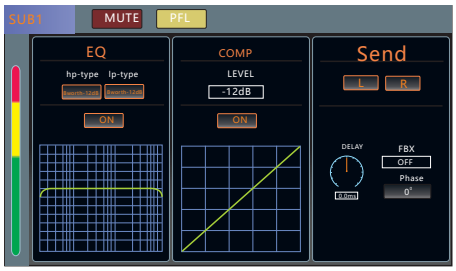
Effects Mode (Preset Effects Mode and User Effects Mode) Click Load or Save Effects



Type of effect parameter

Effect of name	Effect type/value					
Foot SwitCH	Fx1		FX2		FX1+2	
Wah-Wah	Filter	0Hz-8000Hz	Auto	0%-100%	Resonance	0%-100%
	Filter Type	BPF				
		LPF				
Distortion	On/off					
Pitch-shift	1 / 2 Tone	-12—+12	Fine Tune	0—127	Filter	0Hz-8000Hz
	Resonance	0%-100%	Dry/Wet-Mix	0%-100%		
Reverb/Delay	Type:	Spring	Hall	Cathedral	Slap-Back	Short-Delay
		Medium-Delay	Long-Delay	Delay Reverb 1	Delay Reverb 1	
	LevelRev	0%-100%	PreHP	0Hz-1200Hz	PreDelay	0ms—127ms
	TimeRev	0%-200%	HDamp	0%-100%	Tone	-22.0dB-+22.0dB
	ToneFreq	0—127				
Mod-FX	Type:	Vibrato	StepPhaser	Tremolo	SineChorus	Phaser
		Panning	Flanger	Choeus		
	Level	0%-100%	DelTime	0ms—127ms	Feedback	0%-100%
	PreHP	0Hz-1200Hz	HDamp	0%-100%	Rate	0.02Hz-5.80Hz
	Depth	0%-100%	Tremshape	0%-100%		

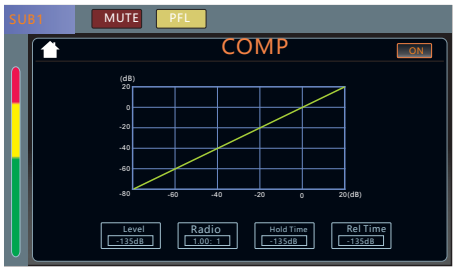
Marshal the output channels



The main page for marshalling output channels



The equalizer page



Pressure limiter page

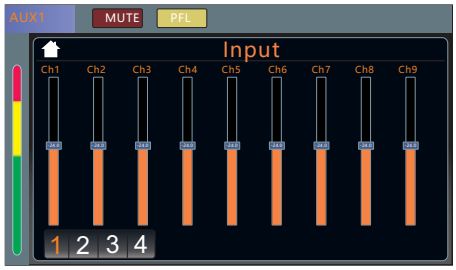
How to enter the marshalling output page.
Press the button "Out" and click to open the output layer (when it is bright, it means it is already in the output layer). Find the word "write SUB" grouping on the screen print, and click the SEL button to open the SUB to enter the main page.
Effect channel page has equalizer, pressure limiter, send.

1. Touch the corresponding function area to enter the function page.
2. Click to select the parameters to be adjusted, and then use the multi-function knob to adjust.
3. Click the homepage icon in the upper left corner to return to the main page of the channel.

Auxiliary output channel



Auxiliary output main page



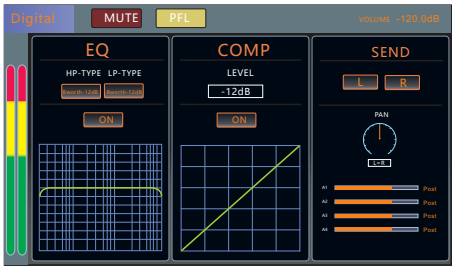
Sends to the source page of the secondary output channel



Secondary output equalizer page

How to enter the secondary output page.
Press the button "Out" to turn over pages, click to open the output layer (when it is bright, it means you are already in the output layer), find the words with AUX assistance on the screen print, and click the SEL button to open AUX assistance to enter the main page.
Auxiliary output channel pages are volume source, equalizer, and send.
1. Touch the corresponding function area to enter the function page.
2. Click to select the parameters to be adjusted, and then use the multi-function knob to adjust.
3. Click the homepage icon in the upper left corner to return to the main page of the channel.

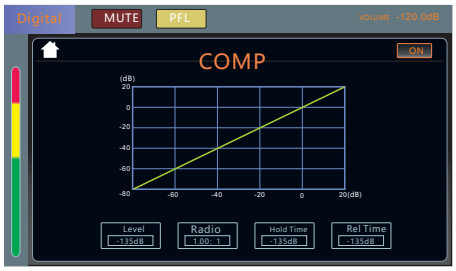
Digital channel



Digital channel home page



The equalizer page



Pressure limiter page



Digital channel signals are routed to the output page

How to access the digital channel page.
Under Digital In on the right side of the screen, click the SEL button to open the DIGITAL channel to enter the main page.
Digital channel page has equalizer, voltage limiter, send. MP3 and sound card playback control is through the digital channel to adjust
The upper right corner is the volume display of the digital channel. The volume can be adjusted by the volume knob of the digital channel

1. Touch the corresponding function area to enter the function page.
2. Click to select the parameters to be adjusted, and then use the multi-function knob to adjust.
3. Click the homepage icon in the upper left corner to return to the main page of the channel.

System Settings

Press the SYS button to enter the system setting page



1, about the machine: here you can view the machine model, kernel version number, application version number, serial number of information.

2. Network: You can change the network IP address here.

3. Custom layer: set the custom channel in the custom layer, and then press the INPUT/OUTPUT button together to enable the function of the custom layer.

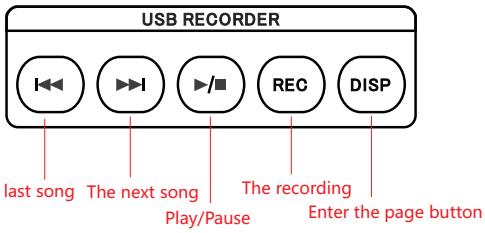
4. Language: Here to modify the language, the machine supports Chinese language and English language.

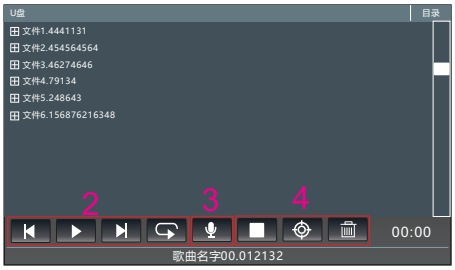
5. Update: Software can be updated here.

Download the update software to the USB flash drive, then plug the USB flash drive into the mixer, click the button to open the update, it will automatically recognize that the software will automatically update, you need to wait.

6. Restore factory Settings: one key can be pressed to restore the machine parameters to the original factory Settings.

Mp3/ sound card playback and recording





Play page

How to access the MP3 page:

1. Press the DISP button in the MP3 operation area to enter the MP3 page.

2. Plug in the U disk with the song, and the U disk will be automatically identified.So that the song is displayed. Learn about MP3 pages:

1. The directory area can be swiped up and down to turn pages.

2. This area is Last, Pause/Play, Next, Random/Single Loop/Sequence.

3, start recording and pause recording, recording will automatically appear the name of the recording file, recording is REC button will keep flashing.

4, the total pause (can pause the playback or recording pause), song positioning, song deletion.

Note:

When recording, the recording signal is the main output signal, so the recording must ensure that the main output signal output is normal, otherwise it will not record the sound

Sound card recording needs to be connected to the computer through the USB cable, open the recording software on the computer, select the sound card of the mixer,MP3 recording directly to the U disk inside.

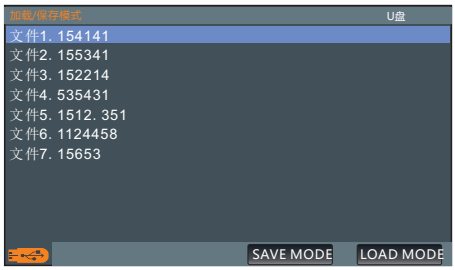
Load/save mode

How to use load and save

The following loading and saving pages are local and U disk pages respectively.



Local page



U disk page

How to save user data:

1. Set parameter data such as input, output and effect, and click Open Mode button.
2. There are altogether 20 scenes for the user to save. Click the scene number to be saved, and then press the "Save Mode" button.

How to load user data:

1. Go to the Loading/Preservation page, select the user to be loaded, and then click the "Loading Mode" button. 3. There are 4 buttons in the MODE area of the control panel, where you can quickly call up the first 4 users of user data, and then press "OK" on the screen Complete the call up of user data.

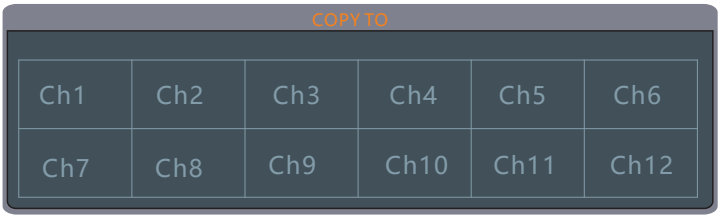
User's USB disk data:

1, set the input, output, effect and other parameters, to load and save the page, click the U disk symbol in the lower left corner to enter the U disk page (orange indicates there is a U disk
Insert).

2, press the save key, write the name after the completion of the virtual keyboard ENTE (Enter key), and then press the confirm key can be saved to the U disk.

3, insert U disk will automatically identify.Load the user data from the U disk, and the blue area is to select the current user data. After selecting it, press the Load button, and then you can confirm it
To load user data to the current channel.

Channel replication page



1. Set parameter data such as input, output and effect in the current channel, and then click Open Copy to enter the COPY page.
2. Select the channel and click the Copy button to complete the COPY.

All trademarks are the property of their respective owners. ADERTECH is not responsible for any errors that may appear in this document.publication. Product, pricing and feature information contained herein is subject to change without notice.
© 2023 ADERTECH Co Ltd. The Aberman logo and associated visual identity are trademarks or registered trademarks of ADERTECH and/or its affiliates