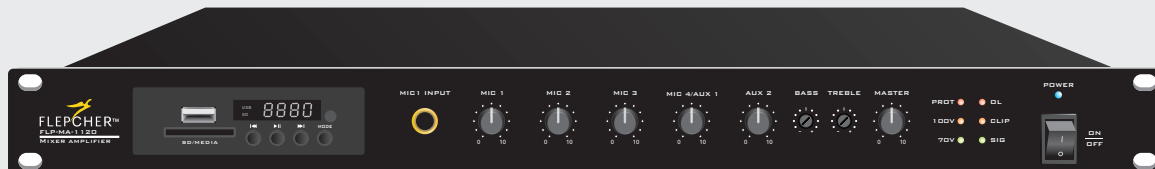




FLEPCHER™

PROFESSIONAL PUBLIC ADDRESS SYSTEM

MIXER AMPLIFIER



- **FLP-MA-1120/FLP-MA-1240**

OPERATION MANUAL

Please follow the instructions in this manual to obtain the optimum results from this unit.
We also recommend that you keep this manual handy for future reference.

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1. SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety



WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.



WARNING

When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Be sure to ground to the safety ground (earth) terminal to avoid electric shock. Never ground to a gas pipe as a catastrophic disaster may result.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down, causing personal injury and/or property damage.

When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
 - If you detect smoke or a strange smell coming from the unit.
 - If water or any metallic object gets into the unit
 - If the unit falls, or the unit case breaks
 - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
 - If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

CAUTION

When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Contact your dealer as to the cleaning. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

An all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

Due to product upgrades, while some of the features and specification in the user manual does not match the actual functions, sorry for any inconvenience and thanks for your kind understanding!

2. GENERAL DESCRIPTION

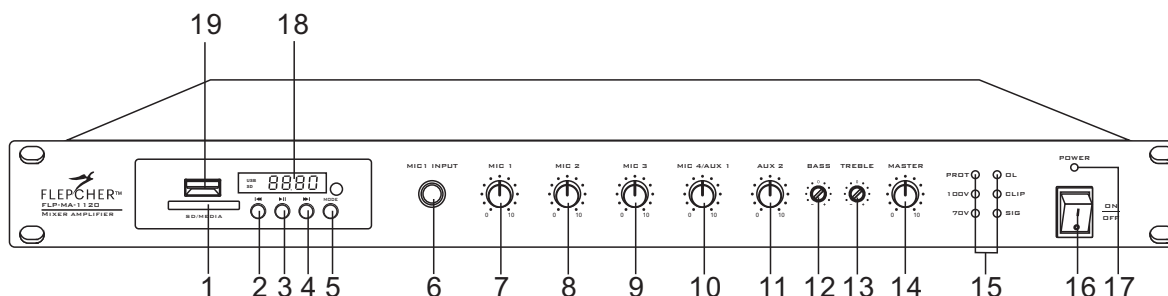
This is mixer amplifier with MP3/TUNER/Bluetooth, adopting high-performance switching power supply and class H power amplifier chip combination; 1U chassis design, high efficiency, light weight, beautiful appearance.

3. FEATURES

1. MP3 decoding module supports USB / SD / Bluetooth / FM playback automatically switch. Configure MP3 remote control; support power-off memory and MIC recording function.
2. Support 1 channel EMC input, 2 AUX input, 4 MIC input.
3. Each channel has volume control function, master volume controls and bass/treble tone control
4. With level indicator, overload and protection indicator; a good short circuit, overload, overheating protection.
5. With mute, MIC input, MIC prior to line input; mute and MIC1 prior to other audio input, EMC prior to all audio input.
6. Channel priority :EMC> MIC1> MIC2 / MIC3 / MIC4 / AUX1 / AUX2 / MP3.
7. The use of advanced and high performance power amplifier circuit, speaker output is 100V, 70V; rated output power 60W, 120W, 240W.
8. AC power, power supply power 110W, 200W, 370W.
9. With forced air-cooling fan from front to back, starting up in uniform speed rotation, then speed up when with the temperature is increasing; to meet the long working hours.
10. With 24V DC power interface for DC 24V backup or optional.
11. 1U chassis design, high efficiency, light weight, beautiful appearance.

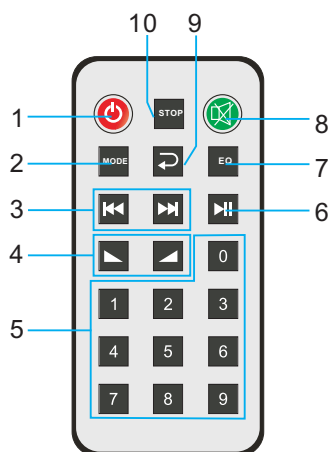
4. NOMENCLATURE AND FUNCTIONS

4.1 FRONT PANEL



- | | |
|-------------------------------------|--|
| 1. SD / MMC card slot | 11. AUX2 volume control knob |
| 2. PREV / VOL reduce | 12. BASS adjustment potentiometer |
| 3. Playback / Pause | 13. TREBLE adjustment potentiometer |
| 4. Next / volume plus | 14. Master volume control |
| 5. MP3 mode selection | 15. PROT/100V/70V/OL/CLIP/SIG
status indicators |
| 6. MIC1 unbalanced input jack | 16. The power switch |
| 7. MIC1 volume control knob | 17. The power indicator |
| 8. MIC2 volume control knob | 18. LED display |
| 9. MIC3 volume control knob | 19. USB interface |
| 10. MIC4 / AUX1 volume control knob | |

4.2 Remote control



1. Power switch
2. Mode
3. Previous/next
4. Volume increase/decrease
5. 0~9 number button
6. Play/pause
7. Sound effect control
8. Mute
9. Cycle play button
10. Pause

Normal usage distance of remote control:

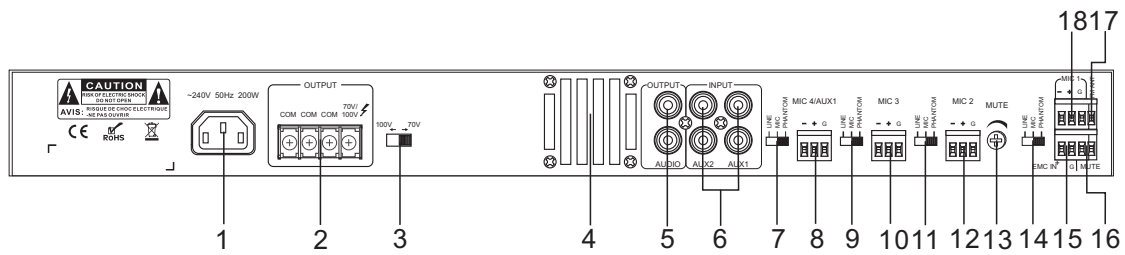
Remote control distance: 8 meter, angle: level ± 35 , vertical ± 15 .

Remote control usage attention:

1. When install battery, please mind electrode.
2. Please let remote control aim right with window of host machine.
3. When found remote distance get short and insensitive, please change battery.
4. Please take out battery when don't use it for a long time.
5. Take it easy in case of falling.

4. NOMENCLATURE AND FUNCTIONS

4.3 REAR PANEL

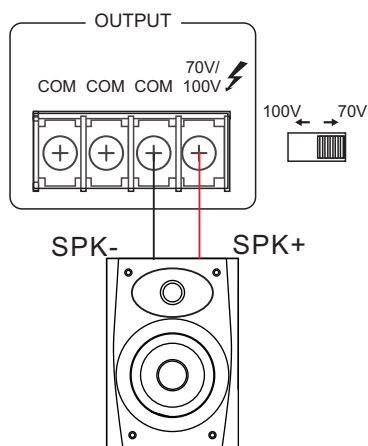


1. AC power input socket
2. 100V /70V output interface
3. 100V /70V speaker output switch
4. Cooling fan
5. Line output interface, used to connect the line input interface
6. 2 channel AUX input interface, used to connect AUX output interface
7. Line input /Mic input /Phantom power switch for MIC4
8. MIC4/AUX1 Balance input
9. Line input /Mic input /Phantom power switch for MIC3
10. MIC3 Balance input
11. Line input /Mic input /Phantom power switch for MIC2
12. MIC2 Balance input
13. MUTE control switch
14. Line input /Mic input /Phantom power switch for MIC1
15. EMC input interface
16. MUTE signal input port
17. FM radio antenna interface
18. MIC1 Balance input

5. OPERATION ILLUSTRATION

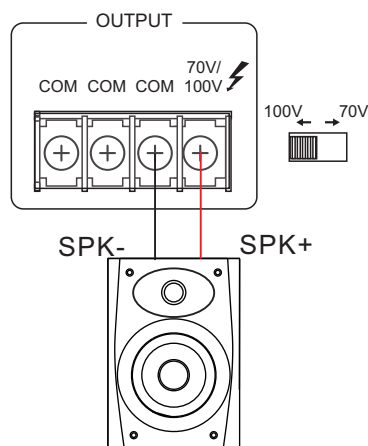
1. Connect the speakers:

① When the 100V and 70V selector switch to 70V position, as shown below:



Maximum output voltage: 70V

② When the 100V and 70V selector switch to 100V position, as shown below:



Maximum output voltage: 100V

Note:

1. Before connecting the speakers, please make sure that the equipment is powered off. In the case of power on, may have the risk of electric shock.
2. Please make sure there are no applied load to the speaker cables.
3. During the installation of speakers, please make sure that the sum of the rated input power of the speakers to be connected is less than rated power of equipment.

2. Connect external devices:

- ① Please ensure that the equipment and all equipment will be connected are powered off.
- ② Using the corresponding cable to connect this equipment and other external equipment.

3. Connect the power line and turn it on:

- ① Please make sure that the power switch of equipment and its connected equipment are turned off (in the OFF position).
- ② Turn the volume knob to the left
- ③ Connect the supplied power line to the AC IN interface
- ④ Plug the power line into the applicable socket
- ⑤ Turn on the connected equipment (CD player, etc.), and then turn on the equipment.

Note:

1. Before powering on, please check and make sure there is no problem with the cable and connection.
2. When you turn off the system, turn off the equipment, and then turn off the connected equipment.

5. OPERATION ILLUSTRATION

4. Microphone using:

1. Turning the volume knob to the left, Connect the microphone and microphone input interface.
2. Turning the volume knob in the right position.
3. Facing the microphone and Speak loudly, turn the volume knob to the right, until the output signal no longer distortion. If input is high but output is low voice, and then increase the volume by using the volume knob. If the speaker volume is very high, then reduce the volume by using the volume knob.

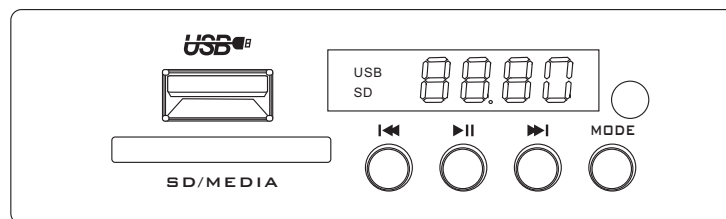
5. Shutdown the system:

1. Turning the volume knob to the left until the minimum position.
2. Turning off the panel power switch of the professional power amplifier, at Off. In turn shutoff processor equipment and audio source equipment.

Note:

1. Turn off the power switch, Please wait about 5 seconds before turning on again. Continuous rapid turning on and off the power switch, it will lead to equipment failure.
2. Even the switch is in the off status, there will be a little current in equipment. If it won't use the equipment in a long time, please unplug the power cord from the wall AC socket.

6. Built-in MP3 player operation method:



- ① USB and SD card interface with functions of "priority to automatically play audio".
- ② "MODE" button: press the "MODE": choose radio, bluetooth or audio playback.
- ③ "◀◀" button: If press quickly, it is last song; Long press is the volume decrease.
- ④ "▶▶" button: When playing music, press one time quickly is pause, press again is play.
- ⑤ "▶▶" button: If press quickly, it is next song; Long press is the volume increase.

Note:

1. When using the built-in MP3 player buttons, please pay attention the strength when control, avoid excessive force to cause damage of MP3 player button.
2. When insert SD card or USB interface, Please insert in a right way, avoid the wrong way or too hard to cause the damage of the SD card or USB interface.

5. OPERATION ILLUSTRATION

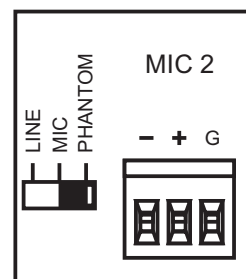
7. Mobile phone bluetooth operation method:

- ① Press the "MODE" button on the MP3 player and set to bluetooth MODE.
- ② Enter the mobile phone Settings, find the bluetooth related Settings.
- ③ Click on the bluetooth switch, turn on the bluetooth, if already turned on, then ignore.
Because mobile phone system is different, setting interface may be a little different.
- ④ Pay attention, after turn on bluetooth, you must be set to let all the devices are detected when search the bluetooth paired phone, or may not be able to complete the search match.
- ⑤ When search the target device, click it, it will connect automatically, once connect successfully, it can normally play mobile phone music.

8. Operation instruction for MIC/MIC2/MIC3/MIC4 input switch:

As shown in the right picture, the input switch included:
line input, Mic input, Phantom power supply.

- ① When switch to Line input, you can input the source from such as CD, VCD, DVD and some other external audio equipment.
- ② When switch to the MIC input, you can use the electret condenser microphone.
- ③ When switch to PHANTOM, the input interface with 48V phantom power supply, you can use the condenser microphone.

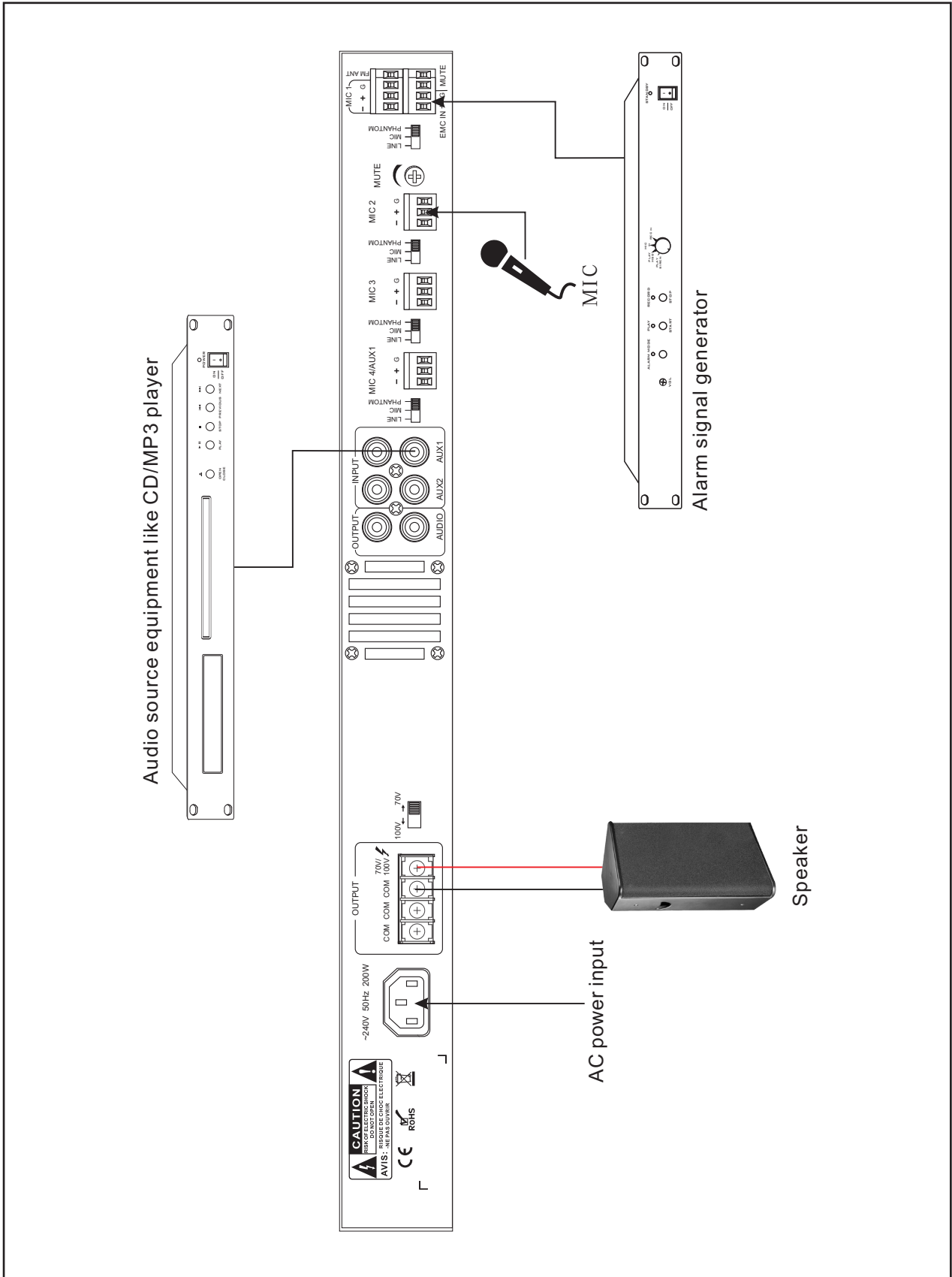


6. TROUBLESHOOTING

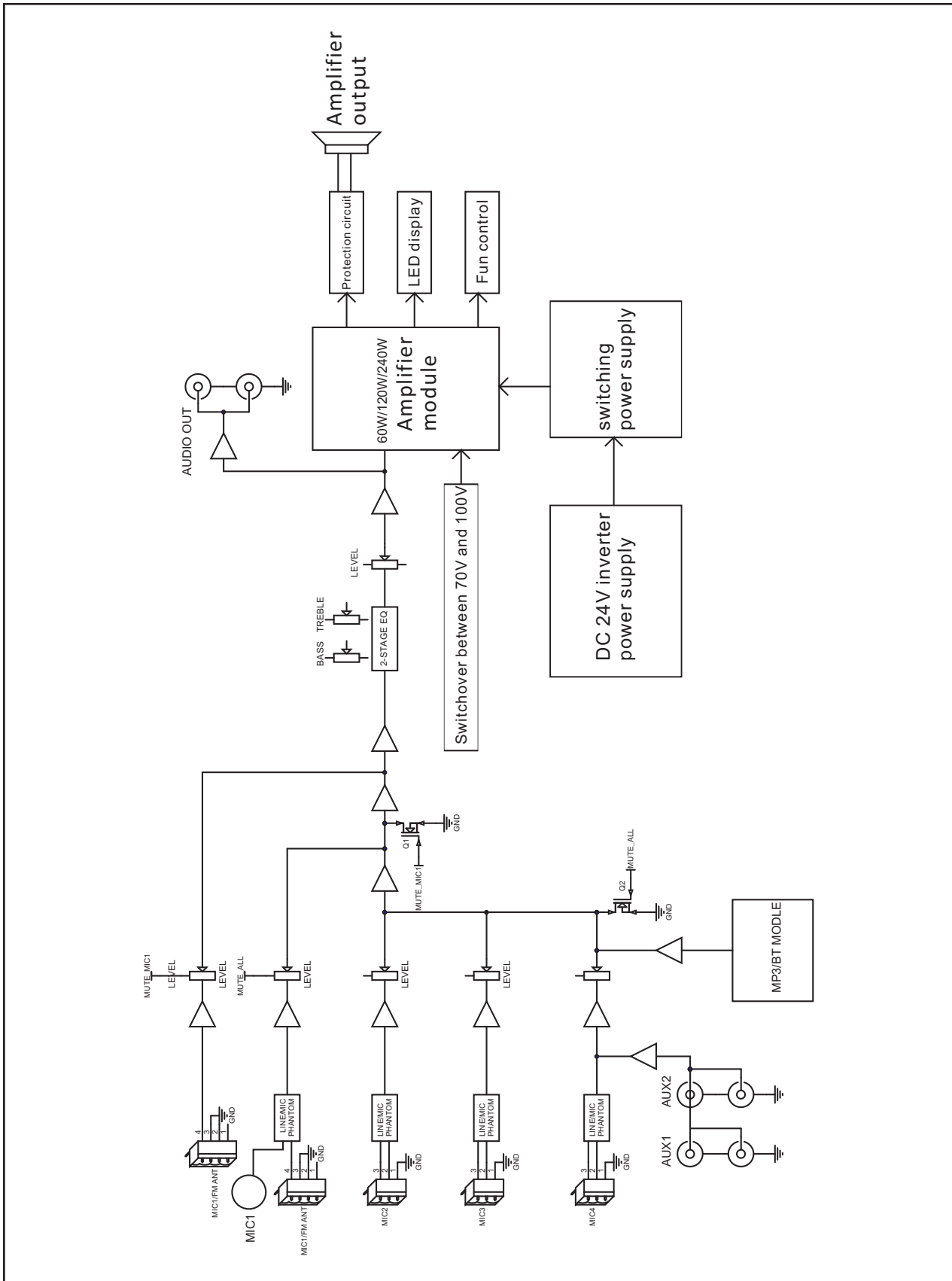
Failure phenomena	Failure cause
1. Power switch is not opened	<ol style="list-style-type: none">1. Power line is cut off2. The protection function of the equipment is not activated
2. All lines are connected, but there is no sound.	<ol style="list-style-type: none">1. The power switch is not opened or the power plug is bad contacted.2. The fuse is burnt3. The volume knob is not opened or turned down to a extra low level4. There is no audio signal input5. There is short-circuit in the speaker line.
3. The sound suddenly disappears in normal status.	<ol style="list-style-type: none">1. The equipment is in very high temperature to make it into protection status.2. The connection wire is bad contact.
4. Low sound	The equipment is set to be low impedance connection, but the speakers connected is with high impedance.
5. Sound is distorted	The input level of Mic or external equipment is too high

7. APPLICATIONS

REAR PANEL CONNECTIONS



8. BLOCK DIAGRAM

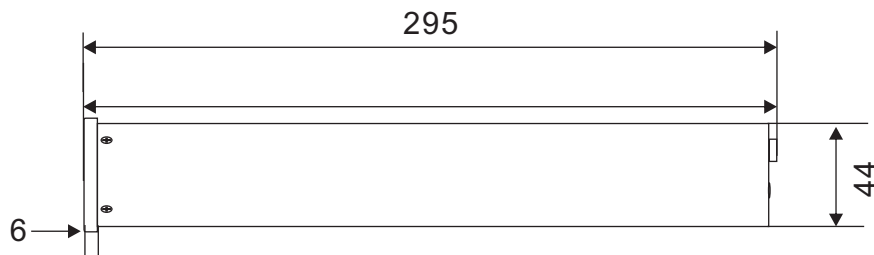
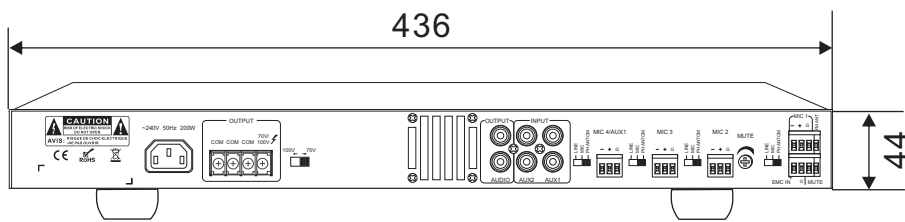
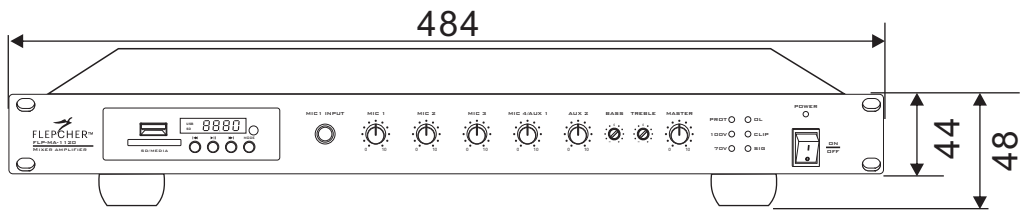


9. SPECIFICATIONS

Model	FLP-MA-1120	FLP-MA-1240
Rated Power	120W	240W
Output Level	70V/100V	
Input Sensitivity	MIC:5mV±1mV LINE: 350mV±20mV AUX: 350mV±20mV EMC: 775mV±40mV	
Pre-output	AUDIO OUT: 1V±50mV/ 100Ω	
Mic Tones	Low frequency: ±10dB at 100Hz; High frequency: ±10dB at 10KHz	
Music Tones	Low frequency: ±10dB at 100Hz; High frequency: ±10dB at 10KHz	
Effector Parameter		
Frequency Response	AUDIO OUT: 20Hz~20KHz (±3dB) MIC: 200Hz~16KHz (±3dB)	
SNR	MIC: ≥65dB; Music:≥70dB	
THD	THD+N≤0.1%	
Indicator	Power indicator	
Short-circuit Mode	Short-circuit, no voltage	
Cooling Mode	Air cooling	
Protection Mode	Overheat/Short-circuit	
Operation Temperature	+5℃~+40℃	
Storage Temperature	-20℃~+70℃	
Relative Humidity	<95%(No condensation)	
Voltage	~240V 50Hz	
Power Consumption	200W	370W
Weight	3.6Kg	3.7Kg
Dimension	484×295×44mm	

10. DIMENSIONAL DIAGRAM

UNIT:mm



Keep the unit's all sides over 10 cm away from objects that may obstruct air flow to prevent the unit's internal temperature rise.

UNIT:mm

