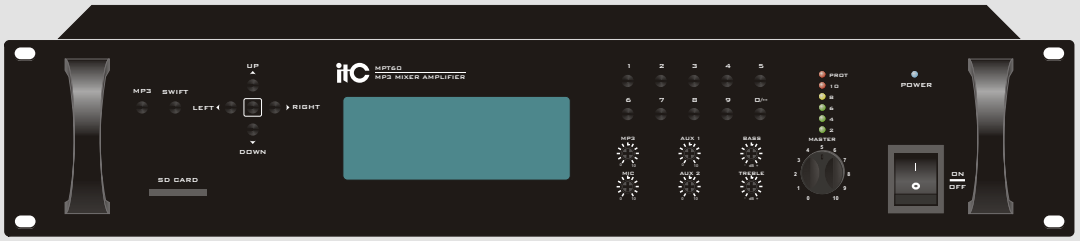
PUBLIC ADDRESS SYSTEM

OPERATION MANUAL

MPT60-MPT120-MPT240
MP3 MIXER AMPLIFIER



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.

TABLE OF CONTENTS

1. SAFETY PRECAUTIONS 3

2. FEATURES 5

3. FRONT AND REAR PANEL FUNCTION.....6

4. MACHINE OPERATION 7

5. APPLICATIONS 12

6. SPECIFICATIONS 13

7. COMMON FAULT ANALYSIS AND ELIMINATION.....14

8. DIMENSIONAL DIAGRAM 15

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 ITC 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 ITC 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 ITC 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.

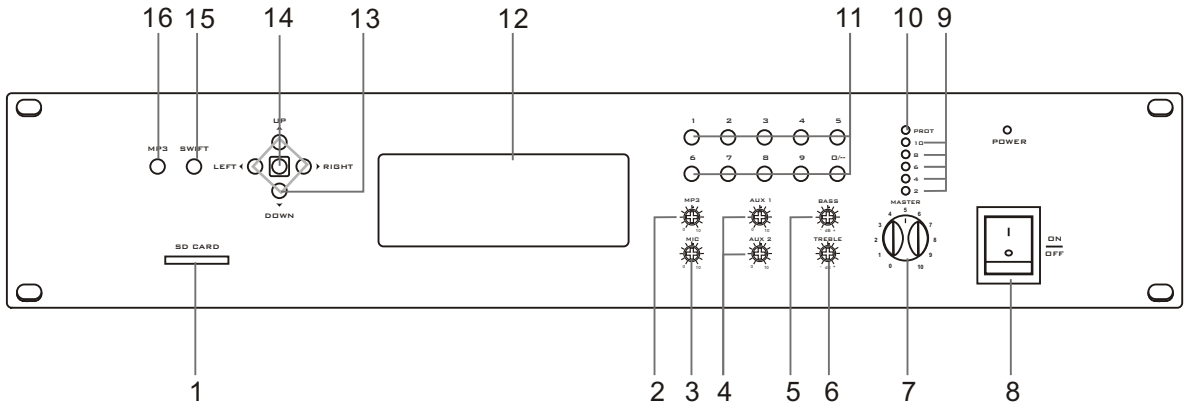
Due to product upgrades, while some of the features and specification in the user manual does not match the actual functions, sorry for any inconvenience and thanks for your kind understanding!

2. FEATURES

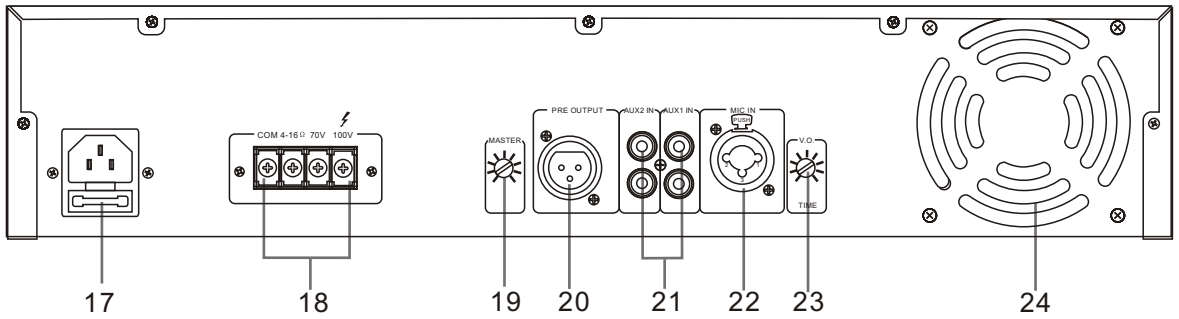
1. Mixer amplifier built-in MP3 and weekly times
2. Amplifier power output from 60W,120W to 240W
3. Rack mount type in 2U height
4. MP3 input by SD card in front panel
5. 1 MIC input by combo type
6. 2 AUX input by RCA type
7. Balanced line output
8. Speaker output:70V,100V and 4-16ohms
9. Extensive protection include high temp, overload and short circuit
10. MIC input with priority over other inputs, and mute level control is supplied
11. Bass/treble tone control and volume control for MP3,MIC,AUX1-2 and master volume control
12. Play, all play, circle, repeat, random play modes
13. Weekly program over time, sound selection & play mode
14. 4 master programs and 1 spare program
15. 0 to 9 ten sound number direct selection buttons
16. MP3, swift, up down, left, right and functional buttons
17. 5 level output indication, protection and power indicator

3. FRONT AND REAR PANEL FUNCTION

3.1 FRONT PANEL



3.2 REAR PANEL



1. SD card slot
2. MP3 volume adjustment
3. MIC input volume adjustment
4. AUX1/AUX2 input volume adjustment
5. BASS volume control
6. Treble volume control
7. Mater volume control all the input level
8. Power switch
   Press up means power on
   Press down means power off
9. Level indicator
10. Port
    Protection indicator
11. Numeric key
12. Working status screen
13. Up/Down/Left/Right choose button
14. Confirm Key
15. Swift
16. MP3 Volume Control key
17. Power input
18. Output terminal, connect with speakers
19. Master
20. Pre out put
21. Line input
22. Mic input
23. Mute time adjust
24. Fan

4. MACHINE OPERATION

1.Home screen illustration

First line: System date, day, and time display
Eg. 2005/ 11/ 08 /2 09: 45: 02
Year Month Date Day Hour Minute Second

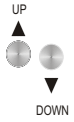
Second line: Current date next step program time and control content
Eg. Next: Tuesday 11: 02:03

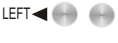
Third line: Current system status

MP3 status:

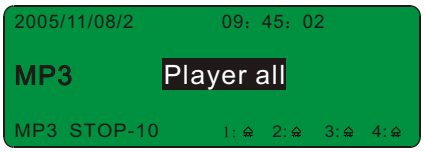
1. MP3 ▶ 08 ——02：03：20
   Status current song number hour minute second
2. MP3 STOP — 10
   MP3 STOP Song total number
3. MP3 ERR
   Without insert SD card storage devices or cannot be distinguished
4. Mp3 WAITING
   Controller is reading MP3 total songs.

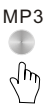
2. MP3 OPERATION

Push MP3 key to operate when it is on the main screen menu, then push 



To select





music format or program, Push

, key for MP3 format.

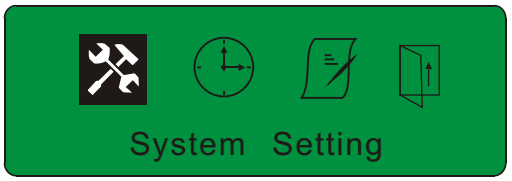
Caution：

1 On MP3 screen. Push MP3 key to cancel the prog ram insert.

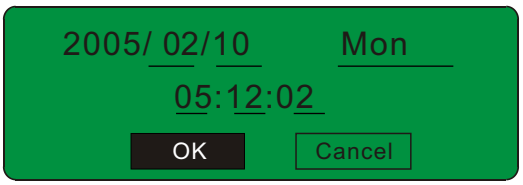
2 On MP3 screen, the system will cancel the insert function without any Operation within 5 seconds.

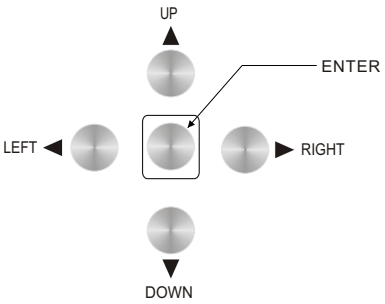
3. System main menu operation

When display home screen, press ENTER key to enter system main menu: Press LEFT ◄ ► RIGHT key



Choose corresponding menu options, press ENTER key again, enter to corres ponding submenu interface, if need to exit menu, then press ENTER key on Exit icon.

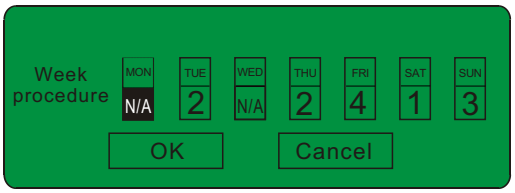




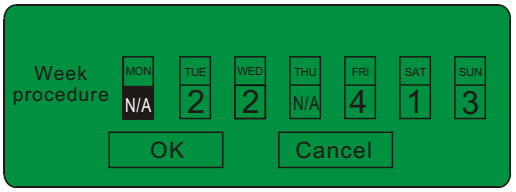
Confirm current modification,please press OK,exit Time setup menu,return to system main menu.
Cancel current modification, press Cancel, exit Time setup menu, return to system main menu.

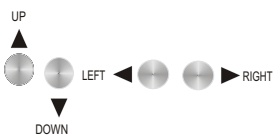
4. System setup

Press Enter key in system main menu System Setup icon, show as below



Program corresponding bar 1,2,3,4,5 stand for program number 1, 2, 3, 4, 5.Number 1,2,3,4 is regular program,No.5 is standby program.Automatic run program number setup:

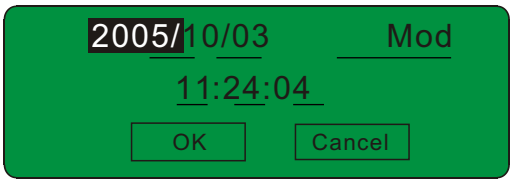


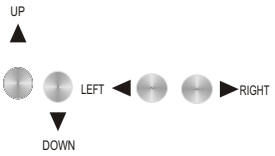


Confirm current modification, please press OK key,exit system setup menu,return to system main menu.Cancel current modification, press Cancel key, exit system setup menu,return to system main menu.

5. Time setup

In system main menu Time setup icon press Enter key, show as below

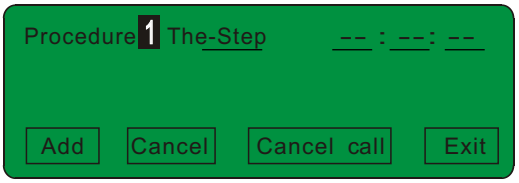




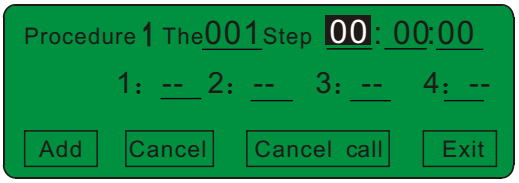
Enter to adjust year, month, day, date, hour, minute, second.

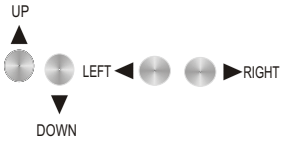
6. Edit program

Press Enter in Edit program in system main menu. If there is no program content,it will show as below:



If there is content in program, it will show as below:





In current program, press ENTER at ADD icon position, then it will be the below diagram.

Choose the corresponding content to edit the relative specifications,choose ADD,it can edit next program and specification.

Browse program

Choose corresponding program number, press Down to adjust program steps, then every stpes in the program can be browsed.

Modify program

Choose corresponding program number,adjust program steps to find out the program which needs to be modified, then users can modify the correspondingcontents in this step, such as time, function, etc.

Add program:

Choose corresponding program number, press Add key, then it can add a new program. Users follow the same method as above to modify the corresponding contents.

Delete single step program

Choose corresponding program number, adjust program steps to find out the programs which need to be deleted. Choose Delete key, then it can delete current step displayed.

Delete all programs

Choose corresponding program number,enter Delete All, it can delete all programs.

Exit

Press Exit, then it exit Edit program menu, return to main menu.

Note:

1. When it shows which step, it just as a prompt function, when add, modify program, it will adjust automatically, and will show steps inconsistent with actual situation, which is normal. When enter into Edit program interface,the steps will automatically adjust.
2. When it shows the below interface,it means the program reach 200 steps,it cannot be added program anymore, or it means all the program totally reach 512 steps, there is no storage space.

Standby program run:

Standby program aims at fixed time, but runs when the run date is not confirmed.

For example:When it is rainy or snowy date, the rest time in school is different as usual, such as get up time, morning exercises and class-break exercise, etc. Even though the rest time is the same for rainy or snowy date, the date is not confirmed, so this is the time to start standby program.

Standby program can be set to run in the current day, or predictable to run in the second day, or to run two days continuously (current day and the second day).

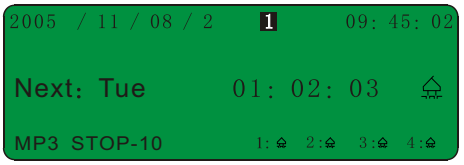
Standby program control key is used for setting up standby program run method. When the display screen is at main interface, press SWIFT,standby program will be next program, there are four run method as below:

：No display, which means it does not run standby program

1：It shows 1, which means the standby program in current day

2：It shows 2, which means the standby program in second day

12：It shows 12, which means the standby program in current day and second day.



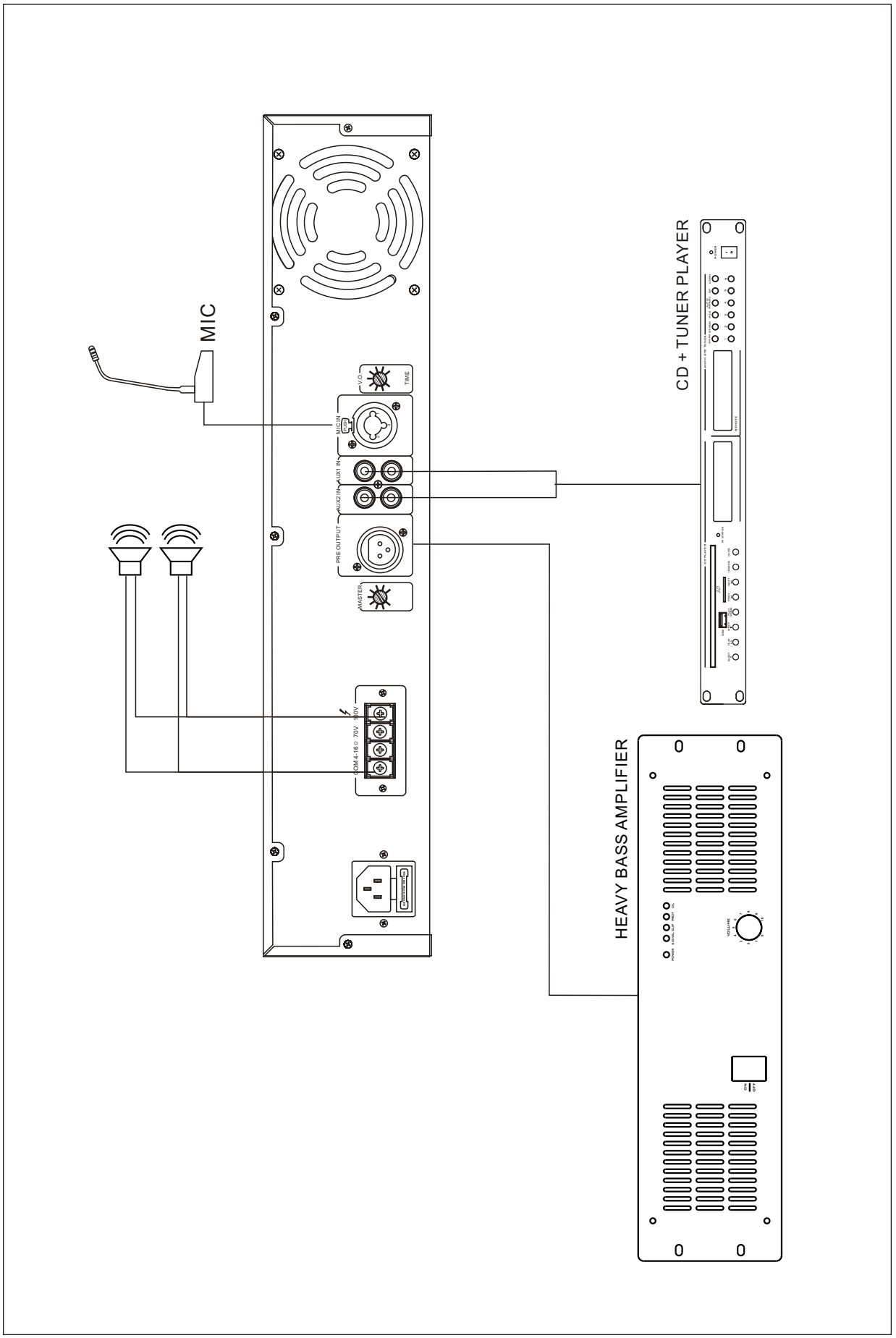
It is only the first time effective for the standby program run setup, after setup date, if users need to continue it, then it needs to be set again.

Note: Standby program run is the fifth number program.

7.MP3 songs storage and management

1. MP3 songs store in SD storage card . (Note: SD card only support 200 mA output electric current, please do not connect with large current SD devices, such as SD card notebook disc, or with SD card charge function devices, or else, it will damage device, or SD card work abnor -mal.
2. Support most 99 songs, it will not deal with the exceeding songs.
3. File system support FAT and FAT32. FAT max support 16 GB, FT32 max support 64TB.
4. It is not permitted to set zones or multiple files in storage card.
5. In order to make sure MP3 work regularly, please do not use the SD card if it is not assembled by our company. Or else, if there is any abnormal play, we will not be responsible for it.

5. APPLICATIONS



6. SPECIFICATIONS

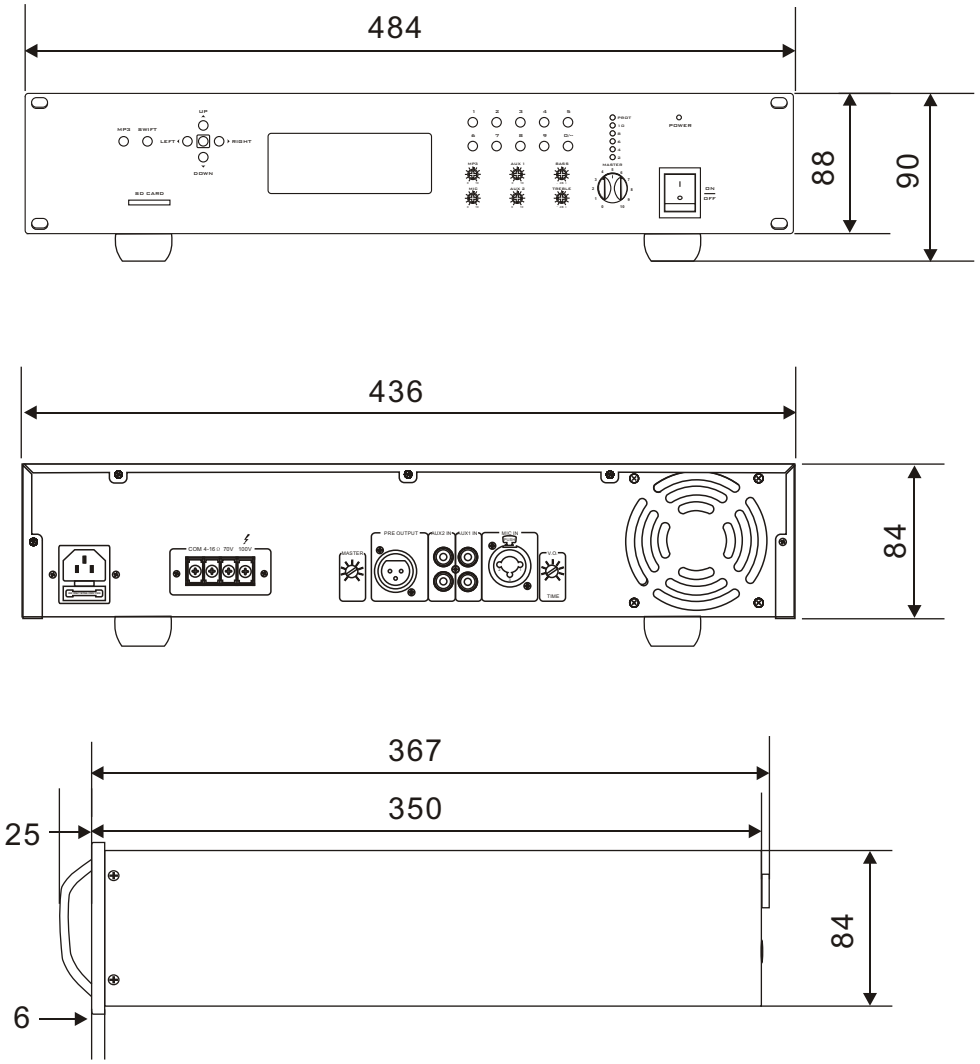
Model	MPT60	MPT120	MPT240
Power Output	60W	120W	240W
Speaker Outputs	70V,100V & 4~16Ω		
MIC Input Sensitivity/Impedace	5mV/2KΩ		
AUX1-2 Input Sensitivity/Impedance	350mV/10KΩ		
S/N Ratio	⩾66dB		
SD File system	Support both FAT16 and FAT32,do not support file format supports up to 4G-1 bytes as the file size. The maximum number of playable files is 65534. Sorts and plays up to 100 files in the order of UNICODE.		
MP3 format	Support MPEG audio1,2 and 2.5. Support layer 1,2 and 3. Support sample rates 8K, 16K, 32K,11.025K,22.05K,44.1K, 12K,24K and 48KHz. Supports bit rate 8 to 320 kbps and VBR (variable bit rate). Except free format.		
Frequency Response	50Hz-18KHz(-3dB)		
Tone(Bass:100Hz,Treble:10KHz)	±10dB		
Pre Output	1V/600Ω		
THD	⩽0.5% at 1KHz, 1/3 rated power		
Program Steps	Total 512 Steps,1day⩽200 Steps		
Time Mode	24 hours(hour-minutes-seconds)weekly		
Power Supply	~220-240V 50Hz		
Power Consumption	100W	180W	350W
Dimensions	484X358X88 mm		
Weght	9.0Kg	10.2Kg	12.9Kg

7. COMMON FAULT ANALYSIS AND ELIMINATION

FAULT PHENOMENA	DIAGNOSE	EXCLUSION
NO DISPLAY ON THE SCREEN	1 Power off 2 Power switch 3 Fuse burned 4 High or low temp	1 Power on 2 Switch on 3 Change AC 4 Change temp
KEY OUT OF FUNCTION	1 Push on wrong key 2 The other keys are on pressed state	1 Enter the operation screen to operate again 2 Release the pressed key
NO USB DISPLAY	1 USB out of function 2 Improper connection with USB 3 USB output more than 200mA, such as USB works with notebook computer, rechargeable USB or with special symbol	1 Delete not Mp3 format file 2 Change the hidden setting 3 Remove Mp3 of other files except the storage root directory
NO MP3 DISPLAY	1 Improper Mp3 format 2 Mp3 with hidden setting 3 Over number of Mp3 sound	1 Delete not Mp3 format file 2 Change the hidden setting 3 Remove Mp3 of other files except the storage root directory
UNSTABLE MP3 BROADCASTING	1 Low Volume 2 Errors in BGM	1 Adjust the volume of MP3 itself 2 Delete all the other files
NO AUDIO OUTPUT	1 Improper connection, 2 No output from the audio source 3 No power on amplifier 4 Volume closed of amplifier	1 Change the proper connection 2 Check the audio source 3 Power on amplifier 4 Open the volume of amplifier

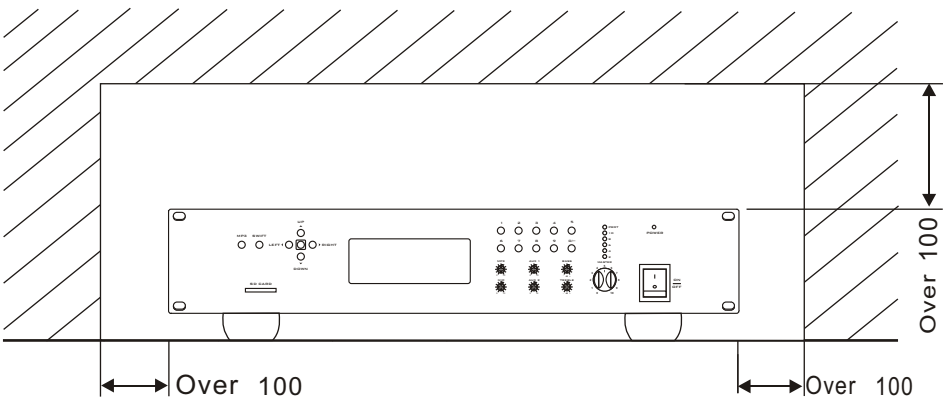
8. DIMENSIONAL DIAGRAM

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



PUBLIC ADDRESS SYSTEM

VersionV0.3