

Public Address System



EUROSOUND®

Public broadcasting hybrid power amplifier

Model:
MA-300C

Warning: Before attempting to connect, operate or adjust this product,
please read these instructions completely and carefully and save this Manual

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions - All the safety and operating instructions should be read before this product is operated.
2. Keep these instructions - The safety and operating instructions should be retained for future reference.
3. Heed all warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions - All operating and use instructions should be followed.
5. Do not use this apparatus near water - The appliance should not be used near water or moisture - for example, in a wet basement or near a swimming pool, and the like.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/appliance combination to avoid injury from tip-over. 
13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Please keep the unit in a good ventilation environment.
16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall not be placed on apparatus.
17. **WARNING:** The mains plug or appliance inlet is used as disconnect device, the disconnect device shall remain readily operable.
18. **Power Sources** - This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer the operating instructions.
19. **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
20. Don't touch conductive parts of output terminals to prevent hazardous electrical shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.
21. This equipment is for commercial & professional use only.
22. This product is in compliance with EU WEEE regulations. Disposal of end of life product should not be treated as municipal waste. Please refer to your local regulations for instructions on proper disposal of this product. 
23. To prevent hazardous electrical shock, do not touch the conductive parts of the output terminals. The external wiring connected to the terminals requires installation by a qualified technician or the use of ready-made leads or cords.
24. Please locate the apparatus at places nearby power socket for quick power disconnection in emergency.
25. This device is not suitable for use in places where children may be present.



Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.



This lightning flash is intended to alert the user to the presence of non-insulated "dangerous voltage" on the output terminals that may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



Note: To reduce the risk of electric shock, do not remove any covers.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

CAUTION: In order to prevent electric shock, do not use extension wiring for polar plugs.

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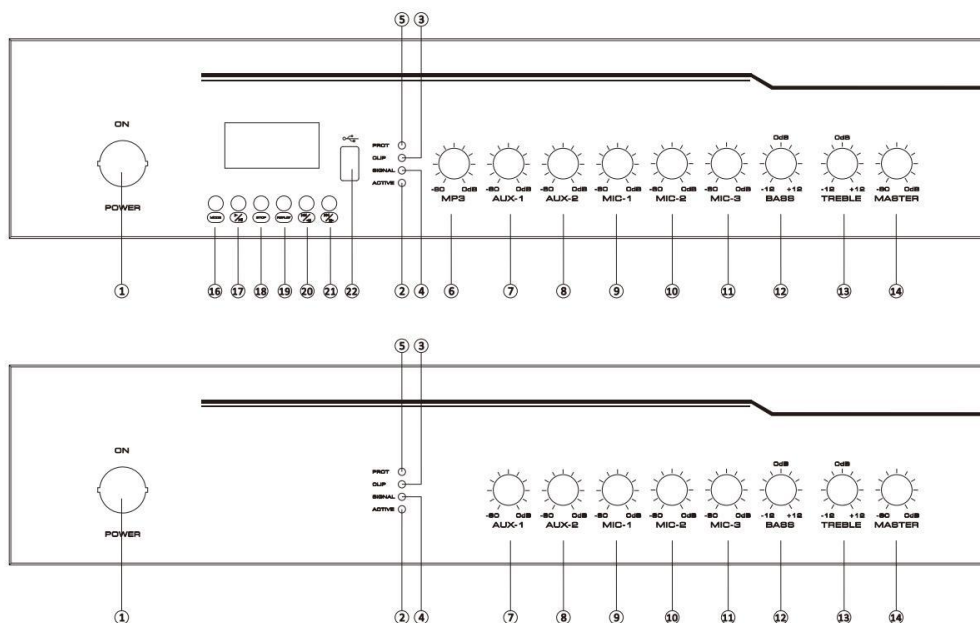
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General Specification 6-7

Controls

MA-300C



1. Power switch: Turn ON to turn on the machine.
2. Power indicator, this light is on when the power switch is on, and it is off after a delay of 1-2 seconds.
3. Peak distortion indicator: This yellow LED blinks when the power amplifier output is close to distortion, reminding the need to reduce the output volume to avoid long-term work of the power amplifier in a near distorted state.
4. Signal indicator: the green signal indicator of -26dB blinks with the input music signal, but the signal is too small or will not be on.
5. Protection indicator: When the power amplifier enters the protection state, the red LED lights up; When the machine is started, it does not enter the ready work state, and the light will be on long; This light is on only when necessary to turn off the power supply of the machine immediately and hand over the professional personnel to check the machine or line to avoid greater losses.
7. AUX1 input channel volume control knob: When rotated counterclockwise to the end, the volume is minimum; The reverse is maximum.
8. AUX2 input channel volume control knob: When rotated counterclockwise to the end, the volume is minimum; The reverse is maximum.
9. MIC1 input channel volume control knob: The volume is minimum when it is rotated counterclockwise to the end; Otherwise, the maximum. This channel is a priority channel, when the channel signal is greater than the set value, other channel signals (except for EMC emergency input) are muted, and the priority is controlled by this volume knob.
10. MIC2 input channel volume control knob: turn counterclockwise to the end, the minimum volume; The reverse is maximum.
11. MIC3 input channel volume control knob: turn counterclockwise to the end, the minimum volume; The reverse is maximum.
12. Bass control knob of equalizer: counterclockwise rotation attenuates bass; Conversely, the bass is enhanced (center frequency = 100Hz).
13. Equalizer's treble control knob: counterclockwise rotation attenuates treble; Conversely, the treble is enhanced (center frequency = 10KHz).
14. Total volume control knob: When rotated counterclockwise to the end, the volume is minimum; The reverse is maximum.

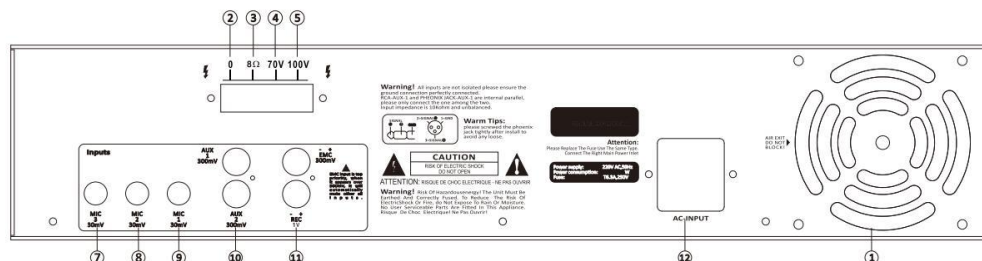
Controls

The following functions are limited to MA-150C/300C/500C:

6. MP3 player channel volume control knob: turn counterclockwise to the end, the volume is minimum; The reverse is maximum.
15. The display of MP3 player shows the class of playback tracks, time, Bluetooth connection status, working mode and radio frequency and channel.
16. Working mode button, tap once to switch mode: MP3-Bluetooth-FM-AUX1-AUX2 cycle switch.
17. Switch the player to pause/play in MP3 and Bluetooth modes; Other operating modes are silent and unsilent.
18. Switch player between MP3 and Bluetooth modes to stop and restart; Other operating modes are silent and unsilent.
19. Switch the player between MP3 and Bluetooth mode for single loop and full loop; Other modes of work are useless.
20. In MP3 and Bluetooth mode, tap to the previous song, long press to quickly backward; Radio mode Tap to display a storage channel, and hold down to display a storage channelBackward frequency selection; Other modes of work are useless.
21. In MP3 and Bluetooth mode, tap to move to the next song, long press to move forward quickly; Radio mode Tap to move to the next storage channel, hold down to move quicklyForward frequency selection; Other modes of work are useless.
22. USB storage disk interface, please connect the USB disk that meets the specifications and confirm that there is music content in the format of the USB disk.

Settings

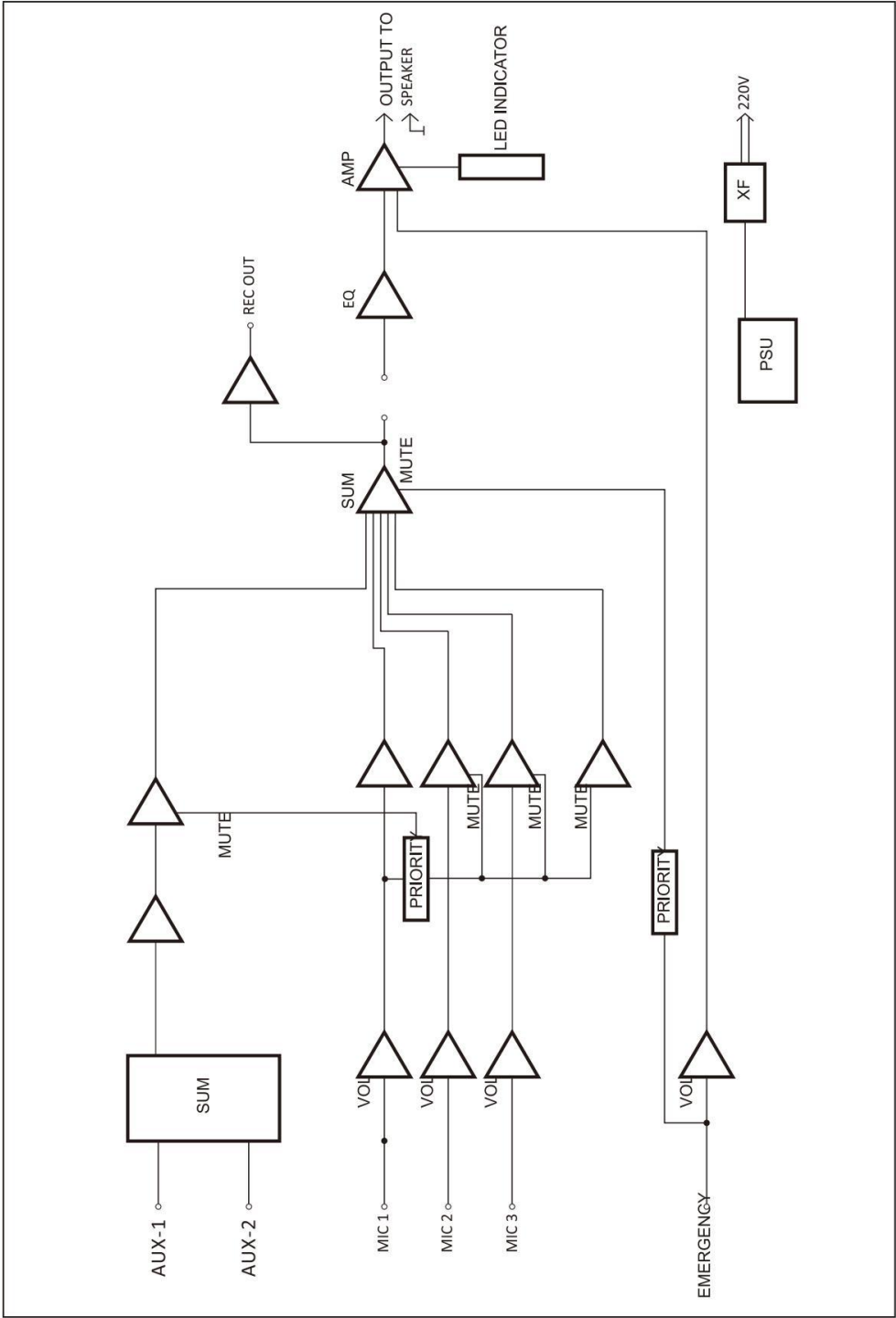
MA-300C



1. Air vent: This machine is a stepless air cooling design from front to back. This is the channel for cold air to enter the machine. Clean before using.
2. Black speaker terminal: the common end of power output, also known as power output ground wire.
3. Black speaker terminal: positive terminal of 8 ohms load power output, this terminal is high voltage, pay attention to the danger of electric shock; Please read the specification page carefully. Ask for appropriate speaker power and impedance.
4. Black speaker terminal: 70V constant voltage power output positive terminal, this terminal is high voltage, pay attention to the danger of electric shock; Please read the specification page carefully. Ask for the appropriate speaker power and the input voltage of the speaker.
5. Black speaker terminal: 100V constant voltage power output positive terminal, this terminal is high voltage, pay attention to the danger of electric shock; Please read the specification page carefully. Ask for the appropriate speaker power and the input voltage of the speaker.
7. MIC3 input port: Please connect a microphone that meets specifications to this 6.35 microphone input socket.
8. MIC2 input interface: Please connect a conforming microphone to this 6.35 microphone input socket.
9. MIC1 input interface: Please connect a microphone that meets specifications to this 6.35 microphone input socket; Note that this channel is a priority channel. When the signal of this channel is greater than the set value, it will mute other channel signals (other than the EMC emergency input), and the priority is controlled by this volume knob.
10. AUX1-2 input: Please connect the RCA cable and signal that meet the specifications to this input (maximum input is +10dBu), AUX1-2 signal is internal dynamic mixing, please note.
11. EMC input (emergency signal) : Please connect the RCA cable and signal that meet the specifications to this input (maximum input is +6dBu), pay attention to this channel is a priority channel, when the signal of this channel is greater than the set value, it will mute other channel signals (except MIC1), this input has no volume controller. Please note the strength of the signal!! REC output (note that this port is output) : This REC output amplitude is about +3dBu signal strength, is a mixed signal of all signal inputs, can be connected to anything that can be used for recording or extending other amplifiers.
12. Power input interface, please confirm that the connected power cord is in line with the specifications and voltage specifications are in line with the use of the machine, and strongly require grounding; Otherwise there is a risk of damage to the machine and electric shock.

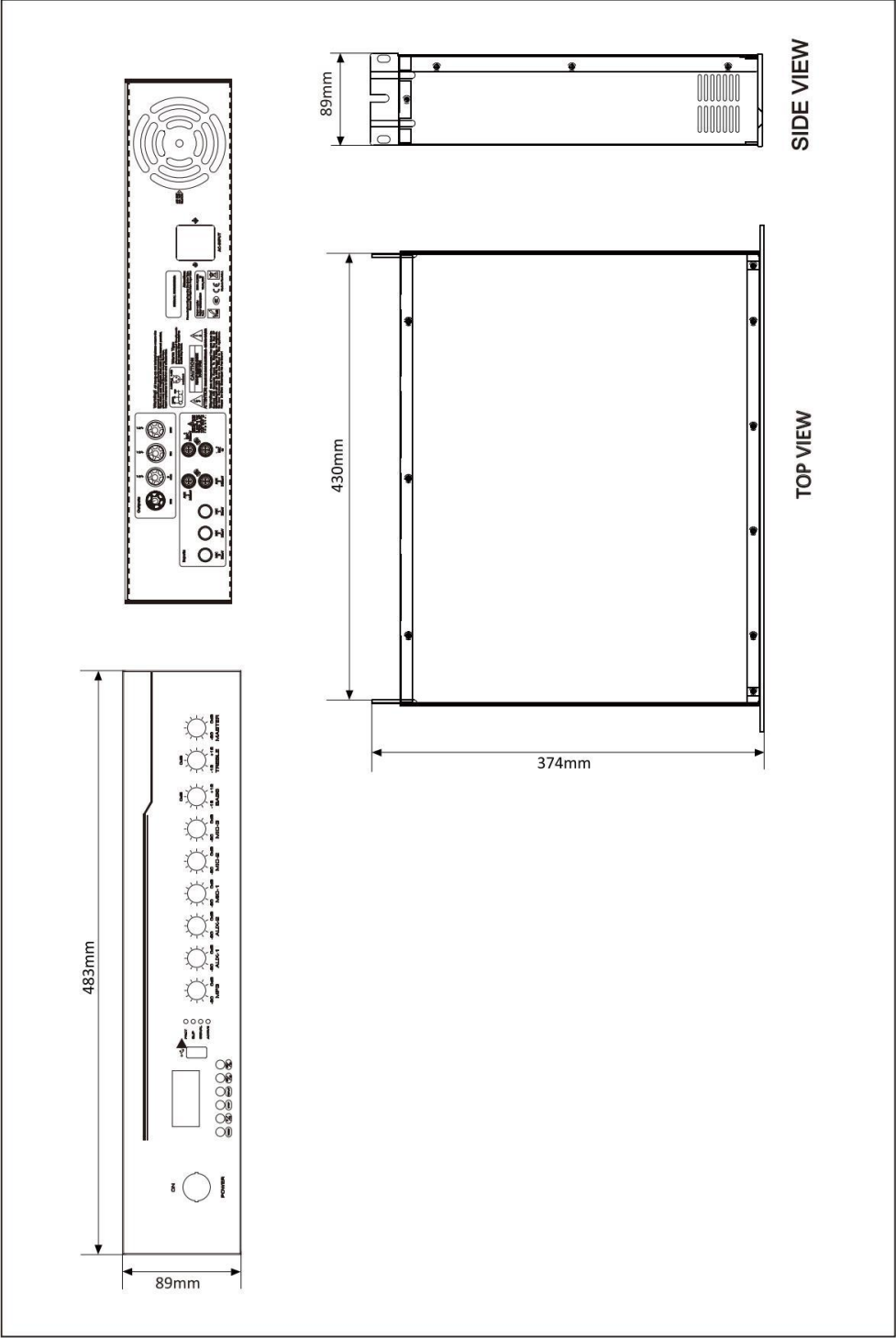
Circuit block Diagram

MA-300C



Dimension

MA-300C



MA-300C Specification

Specification	MA-300C
Output Rating	300W
Input Sensitivity	AUX1/AUX2/EMC:300mV;MIC1/MIC2MIC3:25mV
Recording Output	1.0VRMS
Signal To Noise Ratio	>85dB
Damping Coefficient	200:1
Common Mode Rejection	>90dB.
Frequency Response	50Hz-20kHz(±3dB)
Thd (total Harmonic Distortion) 4W/1khz	<0.05%
Switching Rate	>25V/Microsecond
Indicator Light	"Power", "Clipping", "Signal", "Protection"
Protect	Overheat, DC, Short circuit, peak voltage limit, temperature control fan
Tone Control	Bass: +/-10dB/100Hz
	High pitch: +/-10dB/10KHz
Power Source	Exchange 220V/50-60Hz
Power Consumption	166W
Output Port	COM-8OHM-70V-100V
Out Packing Size(mm)	590×490×155
Machine Size(mm)	483×374×88
G.W	12.4kg
N.W	11.7kg

Power test standard Execution AUDIOPRECISION "White Paper - Measuring Switched Audio Power Amplifier" -CEA2006/490A, amplifier powerThe power rating is defined as positive basalt 1KHz for 20ms and less than 1% THD.