



# **1U Single Channel Class D Digital Amplifier Combined with MP3/Bluetooth Player**

**DA-1060/DA-1120/DA-1240/DA-1480/DA-1660**

## ***User Manual***



Thank you for choosing LYINTL public address system products.  
Please read this manual carefully before using the devices.

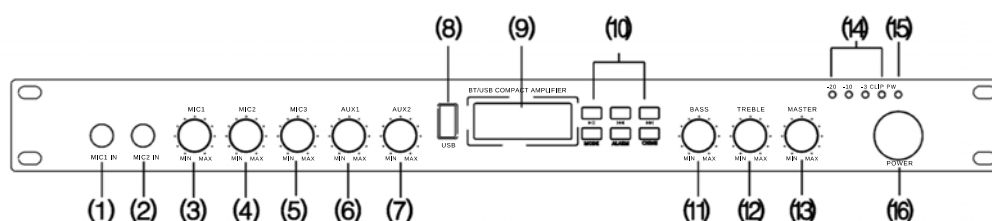
## Precautions for installation and use

- Please install the equipment under the guidance of professional personnel.
- Before use, pay attention to checking that the power cord is not damaged.
- The power plug and socket should match. If the socket and plug do not match, a suitable power socket must be connected. It is not allowed to artificially damage the power plug.
- The power supply provided for equipment use should have sufficient capacity and have an independent and reliable grounding wire.
- When using this machine, attention should be paid to good ventilation, preventing dust and moisture, and avoiding direct sunlight and strong vibration. The most suitable working environment is 5-28 °C, with a relative humidity of <90%. If working for a long time and the ambient temperature is too high, it is recommended to take effective cooling measures.
- The required power supply voltage for this machine is AC100V-AC240V/50-60Hz.
- If the machine malfunctions, it is necessary to hire professional maintenance personnel for repair. Otherwise, our company will not handle any problems and will not be held responsible.
- There is a high-voltage circuit inside, please do not open the cover without authorization when connecting the power to prevent electric shock.
- Please note that during the construction of the project must make sure that the equipment power supply ground wire connected and connected to the earth, otherwise it will lead to abnormal operation of the equipment, or even damage.
- Do not place heavy objects on the machine to prevent it from falling or breaking, causing personal injury or property damage. In addition, the machine itself may also fall, causing personal injury or property damage.
- Before turning on the power, please make sure to adjust the volume control to the minimum position. The high volume at the beginning of the power supply can produce high decibel noise, causing hearing damage.
- Do not operate this machine for a long time while the sound is distorted. Because this indicates that the machine may have malfunctioned, if left unchecked, the machine will overheat and cause a fire.
- If dust is allowed to accumulate on the machine for a long time, it may cause a risk of fire or electric shock.
- If dust accumulates on the power cord plug or AC socket on the wall, it may cause a fire. Therefore, please clean it regularly.
- When you want to clean the machine or do not use it for 10 days or more, please unplug the power cord from the AC socket for safety. Otherwise, it may lead to the occurrence of a fire or electric shock event.

## Product Features Description

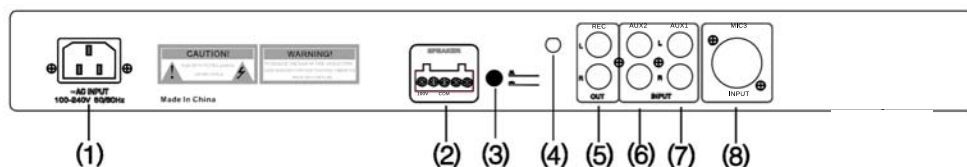
- ◆ The product features a black brushed aluminum panel with a luxurious texture.
- ◆ The internal circuit adopts STM patch technology, which provides stable performance and beautiful wiring.
- ◆ It uses Class D amplifier circuitry with low heat dissipation and strong power output.
- ◆ The power supply uses a high-performance switching power circuit with high efficiency and low heat generation.
- ◆ It has five signal inputs (three microphones and two lines) and comes with built-in Bluetooth, USB, and automatic playback functions.
- ◆ It also has a 1.4-inch LCD dot matrix display screen with touch-sensitive function keys.
- ◆ The product features a master volume control function, with each channel's volume independently adjustable. It also has independent high and low tone adjustments.
- ◆ It has four LED level displays that are dynamic and bright.
- ◆ The product has a comprehensive range of protection functions, including output short circuit protection, DC protection, and high-temperature protection. It also includes 100V fixed voltage output, and 8~16Ω fixed impedance output.
- ◆ It uses Class D amplifier circuitry with low heat dissipation and strong power output.
- ◆ This product is suitable for small and medium-sized public broadcasting applications.

## Introduction to the equipment front panel



- |                                |                             |                            |
|--------------------------------|-----------------------------|----------------------------|
| (1) MIC1 input jack            | (2) MIC2 input jack         | (3) MIC1 volume control    |
| (4) MIC2 volume control        | (5) MIC3 volume control     | (6) AUX1 volume control    |
| (7) AUX2 volume control        | (8) USB input port          | (9) Digital display screen |
| (10) Function selection button | (11) Bass control           | (12) Treble control        |
| (13) Master volume control     | (14) Signal indicator light | (15) Power indicator light |
| (16) Power switch              |                             |                            |

## Introduction to the Rear Panel of the Device



(1) AC100V-240V power input

(2) Output terminal (8-16Ω, 100V)

(3) Fixed resistance/voltage switching switch (4) 2.4G antenna terminal (for 2.4G devices)

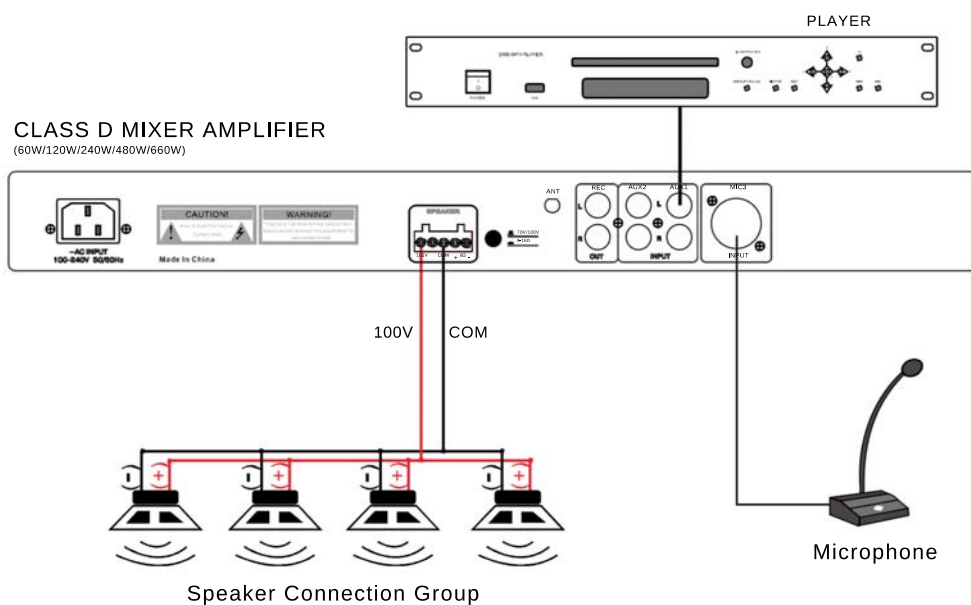
(5) Auxiliary audio output port

(6) AUX2 line input port

(7) AUX1 line input port

(8) MIC3 microphone input port

## Device Connection Diagram



## Function button explanation

- ▶ Play/Pause button: In USB and Bluetooth mode, it is used to control the playback and pause of the track.
- ◀ Previous song button: In USB and Bluetooth mode, press this button to play the previous track, long press to decrease the volume.
- ▶ Next song button: In USB and Bluetooth mode, press this button to play the next track, long press to increase the volume.

**MODE:** Mode switch button: Switch between USB and Bluetooth modes. The system defaults to Bluetooth mode when no USB drive is inserted, and this button is invalid.

**ALARM:** Alarm sound button, press this button to output an alarm sound.

**CHIME:** This button is used to activate the chime function and play a chime sound.

## Remote control function introduction (optional)

**POWER** button: Turn on/off the power of the decoding board.

**MODE** button: Mode switching button, the same as the panel function.

**Number keys:** Can directly select the corresponding digital track.

**MUTE** button: Mute button, press once to mute, press again to restore output.

**EQ** button: Equalization sound effect button, there are 6 sound effects to choose from in USB and Bluetooth mode.

**REP** button: Loop button, 4 loop modes: R for random playback, A for all loop, 1 for single loop, F for sequential playback.

**STOP** button: Stop button, in USB and Bluetooth mode, it can stop the track being played.

◀ : In USB and Bluetooth mode, press this button to play the previous track.

▶ : In USB and Bluetooth mode, press this button to play the next track.

▶|| : In USB and Bluetooth mode, it is used to control the playback and pause of the track.

**VOL-** button: Volume decrease button.

**VOL+** button: Volume increase button.



## Product Features Description

Model number	DA-1060	DA-1120	DA-1240	DA-1360	DA-1480	DA-1660
Rated Output Power	60W	120W	240W	360W	480W	660W
Output Mode	8 - 16 ohms(Ω)Fixed resistance output					
	60W	100V(167 ohms(Ω))Constant voltage output				
	120W	100V(84 ohms(Ω))Constant voltage output				
	240W	100V(42 ohms(Ω))Constant voltage output				
	360W	100V(28 ohms(Ω))Constant voltage output				
	480W	100V(21 ohms(Ω))Constant voltage output				
	660W	100V(15 ohms(Ω))Constant voltage output				
Microphone Input	MIC1 / MIC2: 600 ohms(Ω)10mV,unbalanced					
	MIC3: 600 ohms(Ω)10mV,balanced					
Line Input	AUX1 / AUX2:LINE:10K ohms(Ω)300mV,unbalanced					
Auxiliary Output	0.775V (0dB)					
Frequency Response	60Hz—20KHz (±3dB)					
Nonlinear Distortion	<0.5%at 1KHz,1/3 of rated output power					
S/N	Line: >80dB,MIC: >65dB					
Output Adjustment Rate	<3dB,from static to full load working state					
Tone Adjustment Range	BASS: 100Hz(±10dB),TREBLE: 10KHz(±10dB)					
Indicator Light	Power supply: PW, level indication: -20, -10, -3, CLIP					
Power Supply	AC100V~AC240V 50~60Hz					
Power Cord	(3×0.5mm²)×1.5M (standard)		(3×0.75mm²)×1.5M (standard)			
Power Consumption	90W	180W	360W	480W	720W	990W
Product Size	480mm*200mm*45mm		480mm*280mm*45mm			
Package Size	522mm*284mm*72mm		515mm*380mm*100mm			
Net Weight	2.3kg	2.7kg	3kg	3.2kg	3.4kg	3.8kg
Gross Weight	2.9kg	3.3kg	3.9kg	4.1kg	4.3kg	4.7kg

## Safety guidelines



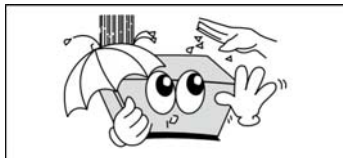
### Danger:

This symbol alerts the user to the presence of "Dangerous Voltage". Terminals with this warning symbol are dangerously energized, and external wires connected to these terminals need to be installed by instructed personnel or by using off-the-shelf leads or cords.

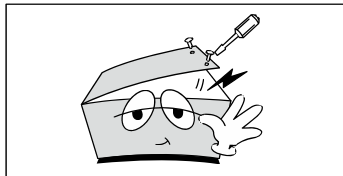


### Caution:

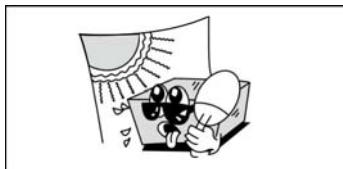
This symbol warns that the product has important instructions.



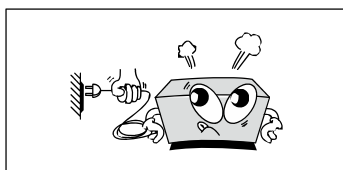
Do not expose the unit to rain or moisture to avoid fire or electric shock.



Do not open the cover to avoid fire or electric shock.



Do not expose the machine to high temperatures, such as direct sunlight.



When unplugging the plug from the socket, do not pull the power cord. Hold the plug and pull it out.

**Specifications are subject to change without prior notice.**



### **Warning**



To avoid electric shock, please do not open the chassis cover by yourself. When the equipment malfunctions, please contact an agent or manufacturer to provide repair services, or entrust professional personnel with professional certificates from professional departments to carry out repairs. Non professional personnel are not allowed to disassemble the machine on their own to avoid electric shock accidents that may endanger the safety of operators.

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