PUBLIC ADDRESS SYSTEM

ARVOX

User's Manual

⚠ Warning ⚠

To avoid electric shock, please do not open the case cover yourself.
In case of malfunction, please contact your agent or the manufacturer for maintenance services, or entrust the maintenance to professionals with professional certificates. Do not dismantle the machine by yourself, as this may endanger the life of the operator in the event of an electric shock.





AMPLIFIER SERIES

PUBLIC ADDRESS SYSTEM Ver1. 0

Due to the continuous improvement of our products, designs and specifications are subject to change without notice!

Thank you very much for purchasing our products!
Please read this User's Manual carefully before using the machine and keep it in a safe place in case you need it in the future.

Safety Instructions

- Please read these instructions carefully before use.
- Pay attention to the safety warnings that appear in this manual.
- We recommend that you keep this manual for future reference.
- The safety symbols and warnings shown in this manual are intended to prevent injury and damage to property caused by improper handling, so please read this manual thoroughly before using the product and make sure you understand the various safety symbols and warnings to be fully aware of the potential hazards.

When installing this machine

Warning: Improper use will cause injury, property damage and death

- Use within the voltage range specified for the machine. Use of higher voltages may cause electric shock or fire.
- Never cut, twist, break or replace the power cord at will, and avoid using the unit near electric heaters to avoid fire or property damage.
- Never place heavy objects on the machine to avoid damage to the equipment and electrical shock or fire.
- Do not touch the 70 V/ 100 V output terminals to avoid electric shock as they can be harmful to humans. After installation and commissioning, make sure that the high-voltage section is covered and that these terminals are connected to external conductors only under professional supervision.
- Do not install or set up the machine in an unstable place (e.g. on a shaky table or uneven surface) to avoid personal injury or property damage if the machine is dropped.
- Never plug or unplug with wet hands to avoid electric shock.
- When pulling out the plug, make sure that you pull the plug itself and not the power cord directly.
- When moving the machine, always remove the mains plug first, as moving the machine with the plug may cause a fire or electric shock.
- Do not cover the ventilation openings on the machine to avoid fire caused by high temperatures inside the machine.
- Avoid installing the unit in damp or dusty locations, in direct contact with sunlight, near electric heaters, or where there is steam, as this may cause fire or electric shock. For example, in bathrooms, etc.

Technical Specifications

Model	3U			
	RX-500W	RX-650W	RX-800W	RX-1000W
	3U(With 6 partitions)			
	RX-6050	RX-6065	RX-6080	RX-60100
Output power	500W	650W	800W	1000W
Speaker output	4-16Ω， 70V/100V			
Input sensitivity & source impedance	AUX1/2: 300mv/10KΩ, unbalanced MIC1/2: 10mv and 300mv, 600Ω, unbalanced EMG: 300mv/10KΩ, unbalanced			
Output support	600Ω/1V(0dBV)			
Frequency response	60Hz~16KHz			
Signal-to-noise ratio	MIC1、2：66dB;AUX1、2:80dB			
Total harmonic distortion	Lessthan0.1%at 1KHz,1/3rated power			
Control method	Gain control, power control			
Heat Dissipation	Forced cooling by fan when internal power module reaches 45°C			
Protection	Overheat protection, short circuit protection, overcurrent protection			
Power input	AC 220V/50Hz			
Power consumption	500W	750W	950W	1200W
Fuse	12A	12A	12A	15A
Dimensions	485*400*132mm			
Net weight	17Kg	19Kg	22Kg	25Kg

Technical Specifications are subject to change without notice

Technical Specifications

Model	2U				
	RX-60W	RX-120W	RX-240W	RX-300W	RX-360W
	2U(With 6 partitions)				
	RX-6006	RX-6012	RX-6024	RX-6030	RX-6036
Output power	60W	120W	240W	300W	360W
Speaker output	4-16Ω， 70V/100V				
Input sensitivity & source impedance	MIC1/2: 10mv and 300mv, 600Ω, unbalanced AUX1/2: 300mv/10KΩ, unbalanced EMG: 300mv/10KΩ, unbalanced				
Output support	600Ω/1V(0dBV)				
Frequency response	60Hz~16KHz				
Signal-to-noise ratio	MIC1、2：66dB;AUX1、2:80dB				
Total harmonic distortion	Lessthan0.1%at 1KHz,1/3rated power				
Control method	Gain control, power control				
Heat Dissipation	Forced cooling by fan when internal power module reaches 45°C				
Protection	Overheat protection, short circuit protection, overcurrent protection				
Power input	AC 220V/50Hz				
Power consumption	100W	200W	350W	400W	450W
Fuse	5A	5A	8A	8A	10A
Dimensions	485*340*88mm				
Net weight	9Kg	11Kg	12Kg	13Kg	15Kg

Technical Specifications are subject to change without notice

使用本机注意事项

- If you notice any of the following irregularities during use, turn the power off immediately, unplug it quickly and recently and contact your dealer, do not continue to use the machine until you have resolved the problem, it may cause a fire or electric shock.
  - If you notice smoke or a strange smell coming from the unit.
  - In the event that water or metal objects fall into the machine.
  - If the machine is dropped or the housing is damaged.
  - E.g. broken wires (exposed wire cores, broken wires, etc.)
- As there are high voltage parts inside the machine, to avoid fire or electric shock, never open the housing, please inform your nearest dealer if there is a problem.
- Never place cups, bowls, vases or other substances containing liquids on the machine, as inadvertent spillage of liquids on the inside of the machine may cause fire or electric shock.
- It is absolutely impossible to expose the machine to rain or any wet or water-prone area, which may cause electric shock or fire.
- Never expose the machine to rain or any wet or water-prone area as this may cause electric shock or fire.
- Never put metal objects or objects made of flammable material through the vents in the machine panel, nor coins, which may cause fire or electric shock.
- Do not place heavy objects on the machine to avoid injury to persons or damage to property if the machine slips.
- Do not continue to use the machine when the sound is distorted as this indicates a fault and may cause heat and fire inside the machine.
- If the machine needs to be cleaned due to the accumulation of dust over time, please inform your dealer to clean the machine regularly to avoid damage to the machine or fire.
- Ensure that the socket is in good contact to avoid poor contact which could cause fire or personal injury. When the unit has not been used for more than 10 days, unplug it to avoid electric shock or fire.
- Ensure that the volume is turned down before switching on, too high a volume on may cause hearing problems.
- This machine panel is subject to upgrade without notice, please refer to the actual product for details.

Catalogue

1. Product Overview.....1

2. 2U mixer amplifier panel (without partition)

(60W/120W/240W/300W).....2

3. 2U mixer amplifier rear panel (without partition)

(60W/120W/240W/300W).....3

4. 3U mixer amplifier panel (without partition)

(360W/500W/650W/800W/1000W).....4

5. 3U mixer amplifier rear panel (without partition)

(360W/500W/650W/800W).....5

6. 2U mixer amplifier panel (with 6 partitions)

(60W/120W/240W/300W).....6

7. 2U mixer amplifier rear panel (with 6 partitions)

(60W/120W/240W/300W).....7

8. 3U mixer amplifier panel (with 6 partitions)

(360W/500W/650W/800W).....8

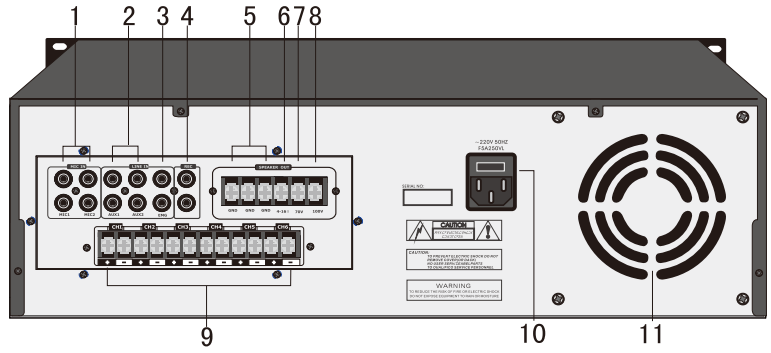
9. 3U mixer amplifier rear panel (with 6 partitions)

(360W/500W/650W/800W).....9

10. Product technical parameters.....10

3U mixer amplifier (with 6 partitions)

Rear panel (360W/500W/650W/800W)



1.MIC1/MIC2 - Line unbalanced input

2.AUX1/AUX2

Auxiliary input jack, unbalanced connection port

3.EMG-Emergency input port

Emergency alarm music signal input, once a signal is input to this port, the device will automatically play the music signal of this channel in priority (with the highest priority function)

4.Line out, for connection to the next device

5.Common terminal

Common terminals such as negative, ground, etc. can be connected

6.6.4~16Q terminal:

Can be used to connect speakers with resistance 4 to 16Q

7.The 70V terminal can be used to connect a 70V fixed-voltage horn

8.100V terminal:

Can be used to connect 100V constant voltage speakers

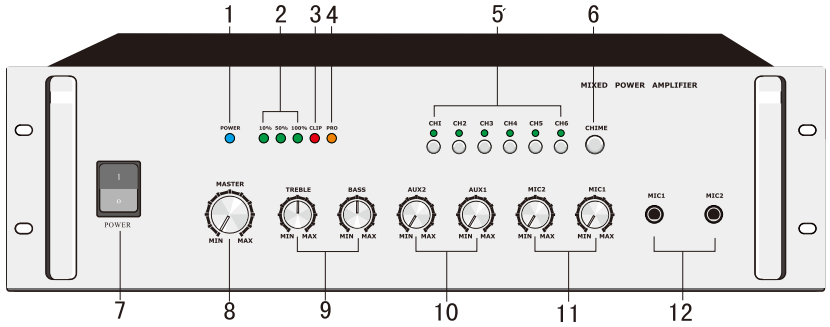
9. (1-6) Partition output terminal (100V) for connection to the horn

10.AC 220V power input

Radiator fans

3U mixer amplifier (with 6 partitions)

Front Panel (360W/500W/650W/800W)



1.Power indicator:

When the power is on, the power light is on; when the power is off, the power light is off

2.Signal indicator:

When a signal is input, the signal light is on; when the signal is stopped, the signal light is off

3.Peak clipping indicator:

When the input signal reaches full load or overload, the Peak clipping lamp lights up

4.Protection indicator:

When the machine is protected, the indicator light will be on, when it is working normally, the indicator light will be off; if the machine is protected by overheating, overload or DC, the indicator light will be on and the output relay will be disconnected.

5.6 partition output control buttons

Button pressed, level light on, partition on, button popped up, level light off, partition off

6.CHIME - beep trigger control switch

7.Power switch

Switch up, power on; switch down, power off

8.MASTER - Total volume

Control of the input level signal size adjustment

9.TREBLE/ BASS - high and low volume

Adjust treble and bass response, turn clockwise to increase treble/bass output and vice versa

10.AUX 1 / AUX 2 - Auxiliary volume control

11. MIC 1 / MIC 2 - Volume control

12.MIC 1 / MIC 2 - unbalanced signal input port

Product Overview

Public Address integrated power amplifier series with rated power from 60 W to 800 W, using Class AB amplification line, with strong load carrying capacity, stable operation, with or without 6 partitions two models, for different needs of users flexible options.

Functional features

1.Class AB amplifier circuit, full power output, super load capacity, simple and beautiful craftsmanship

2.Two-way microphone inputs, two-way AUX line inputs, one-way emergency (EMG) signal input, one auxiliary output for connection to the next unit

3.User selectable sensitivity of 10 mv and 300 mv on the mic input

4.Treble, bass and master volume controls, with independent control of each input volume

5.Output power with 70 V/ 100 V constant voltage output and 4 - 16 Ωconstant resistance output

6.3 levels of priority with EMG as highest priority, MIC 1 as second priority and MIC 2 / AUX 1 / AUX 2 as lowest priority

7.A warning function to protect against abnormal operation, with a protection indicator when the input signal is too large, the load is too heavy, the temperature is too high, or the circuit is short-circuited, provides high reliability.

8.A 45 degree temperature control automatically activates the radiator fan to force heat dissipation, allowing the unit to operate at a safe temperature

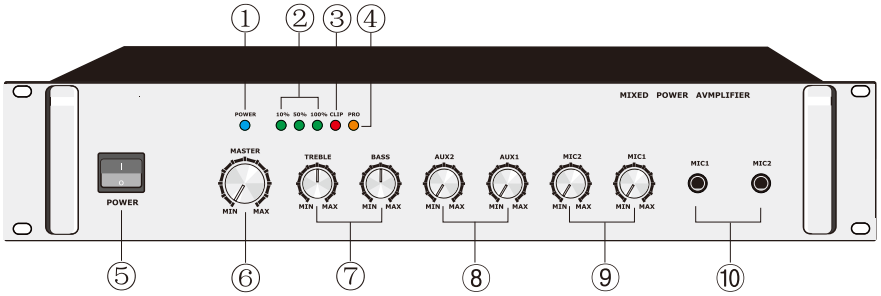
9.With partitioned amplifier with 6 independent partition controls, no interference, and beep trigger control buttons

Special Note.

If the machine is upgraded, the performance of the product may vary, please refer to the actual upgraded machine. These instructions may not be pirated and are subject to final interpretation by the manufacturer.

2U mixer amplifier (without partition)

Front Panel (60W/120W/240W/300W)



1.Power indicator:

When the power is on, the power light is on; when the power is off, the power light is off

2.Signal indicator:

When a signal is input, the signal light is on; when the signal is stopped, the signal light is off

3.Peak clipping indicator:

When the input signal reaches full load or overload, the Peak clipping lamp lights up

4.Protection indicator:

When the machine is protected, the indicator light will be on, when it is working normally, the indicator light will be off; if the machine is protected by overheating, overload or DC, the indicator light will be on and the output relay will be disconnected.

5.Power switch

Switch up, power on; switch down, power off

6. MASTER - Total volume

Control of the input level signal size adjustment

7.7TREBLE/ BASS - High and low volume

Adjust treble and bass response, turn clockwise to increase treble/bass output and vice versa

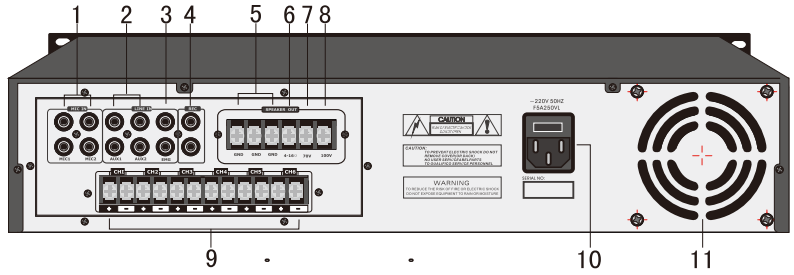
8.AUX 1 / AUX 2 - Auxiliary volume control

9. MIC 1 / MIC 2 - Volume control

MIC 1 / MIC 2 - unbalanced signal input port

2U mixer amplifier (with 6 partitions)

Rear panel (60W/120W/240W/300W)



1.MIC 1 / MIC 2 - Line unbalanced input

2. AUX 1 / AUX 2

Auxiliary input jack, unbalanced connection Port

3.EMG-Emergency input port

Emergency alarm music signal input, once a signal is input to this port, the device will automatically play the music signal of this channel in priority (with the highest priority function)

4.Line out for connection to the next device

5.Common terminal

Common terminals such as negative, ground, etc. can be connected

6.4 ~16Ω terminal:

Can be used to connect speakers with a resistance of 4 ~ 16 Ω

7.70 V terminal

Can be used to connect 70 V constant voltage speakers

8.100 V terminal

Can be used to connect 100 V constant voltage speakers

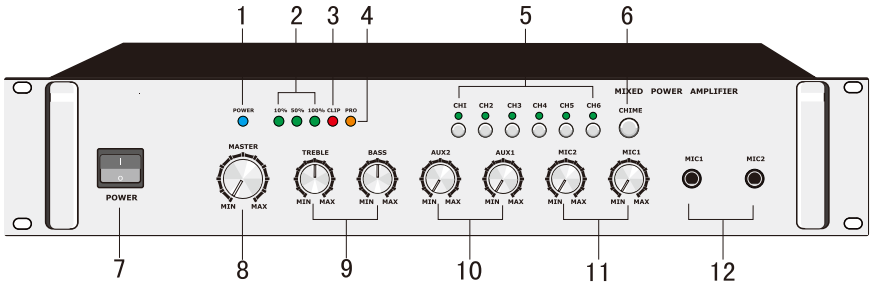
9.(1 - 6) partition output terminals (100 V) for connection to the horn

AC 220 V power input

10.Radiator fans

2U mixer amplifier (with 6 partitions)

Front Panel (60W/120W/240W/300W)



1.Power indicator:

When the power is on, the power light is on; when the power is off, the power light is off

2.Signal indicator:

When a signal is input, the signal light is on; when the signal is stopped, the signal light is off

3.Peak clipping indicator:

When the input signal reaches full load or overload, the Peak clipping lamp lights up

4.Protection indicator:

When the machine is protected, the indicator light will be on, when it is working normally, the indicator light will be off; if the machine is protected by overheating, overload or DC, the indicator light will be on and the output relay will be disconnected.

5.6 partition output control buttons

Button pressed, level light on, partition on, button popped up, level light off, partition off

6.CHIME - beep trigger control switch

7.Power switch

Switch up, power on; switch down, power off

8.MASTER - Total volume

Control of the input level signal size adjustment

9.TREBLE/ BASS - high and low volume

Adjust treble and bass response, turn clockwise to increase treble/bass output and vice versa

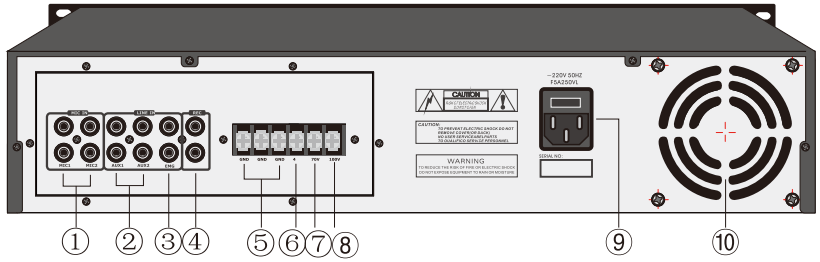
10.AUX 1 / AUX 2 - Auxiliary volume control

11.MIC 1 / MIC 2 - Volume control

12.MIC 1 / MIC 2 - unbalanced signal input port

2U mixer amplifier (without partition)

Rear panel (60W/120W/240W/300W)



1.MIC 1 / MIC 2 - Line unbalanced input

2.AUX 1 / AUX 2

Auxiliary input jack, unbalanced connection Port

3.EMG-Emergency input port

Emergency alarm music signal input, once a signal is input to this port, the device will automatically play the music signal of this channel in priority (with the highest priority function)

4.Line out for connection to the next device

5.Common terminal

Common terminals such as negative, ground, etc. can be connected.

6.4 ~16Ω terminal:

Can be used to connect speakers with a resistance of 4 ~ 16 Ω

7.70 V terminal

Can be used to connect 70 V constant voltage speakers

8.100 V terminal

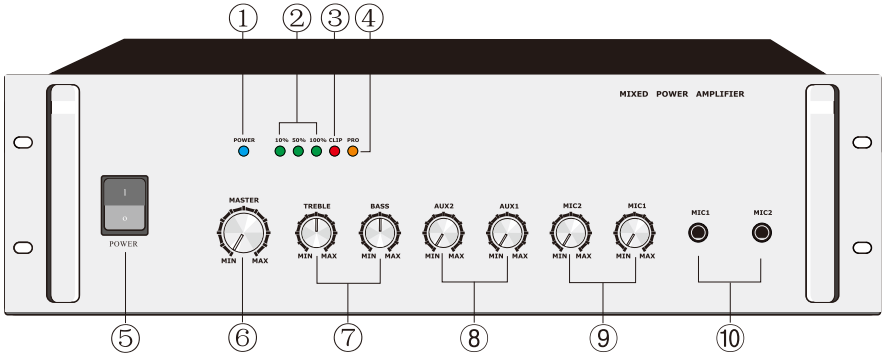
Can be used to connect 100 V constant voltage speakers

9.AC 220 V power input

10.Radiator fans

3U mixer amplifier (without partition)

Front Panel (360W/500W/650W/800W)



1.Power indicator:

When the power is on, the power light is on; when the power is off, the power light is off

2.Signal indicator:

When a signal is input, the signal light is on; when the signal is stopped, the signal light is off

3.Peak clipping indicator:

When the input signal reaches full load or overload, the Peak clipping lamp lights up

4.Protection indicator:

When the machine is protected, the indicator light will be on, when it is working normally, the indicator light will be off; if the machine is protected by overheating, overload or DC, the indicator light will be on and the output relay will be disconnected.

5.Power switch

Switch up, power on; switch down, power off

6.MASTER - Total volume

Control of the input level signal size adjustment

7.TREBLE/ BASS - High and low volume

Adjust treble and bass response, turn clockwise to increase treble/bass output and vice versa

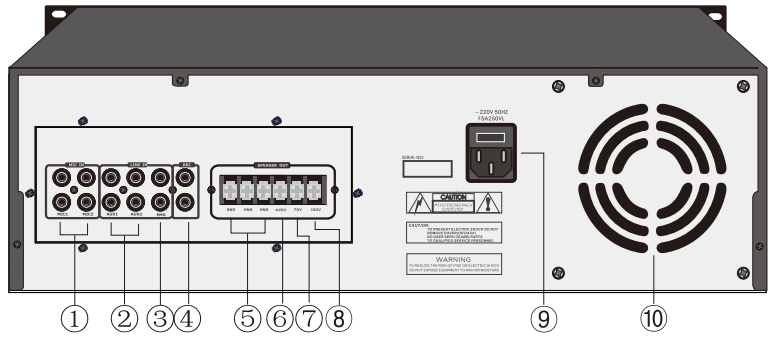
8.AUX 1 / AUX 2 - Auxiliary volume control

9.MIC 1 / MIC 2 - Volume control

MIC 1 / MIC 2 - Unbalanced signal input port

3U mixer amplifier (without partition)

Rear panel (360W/500W/650W/800W)



1.MIC 1 / MIC 2 - Line unbalanced input

2.AUX 1 / AUX 2

Auxiliary input jack, unbalanced connection Port

3. EMG-Emergency input port

Emergency alarm music signal input, once a signal is input to this port, the device automatically takes priority

Playback of the music signal for the channel (with highest priority function)

4.Line out for connection to the next device

5.Common terminal

Common terminals such as negative, ground, etc. can be connected

6.4 ~16Ω terminal:

Can be used to connect speakers with a resistance of 4 ~ 16 Ω

7.70 V terminal

Can be used to connect 70 V constant voltage speakers

8.100 V terminal

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9.AC 220 V power input

10.Radiator fans