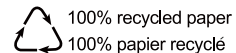
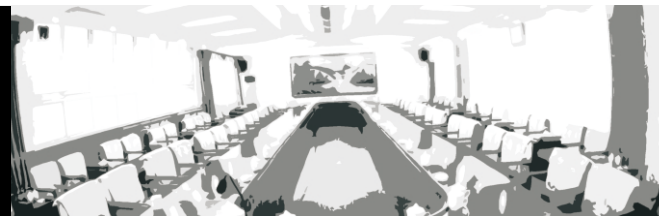




AMC-20

Intelligent Digital Mixer



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100% papier recyclé

Installation and Operation

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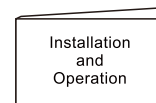
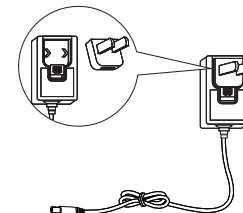
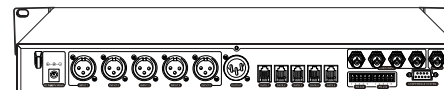
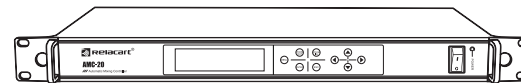
Thank you for choosing a RELACART professional automatic mixing controller system. You have joined thousands of other satisfied customers. Our years of professional experience of design and manufacturing to ensure our products' quality, performance and reliability.

01 Safety Operation and Notice

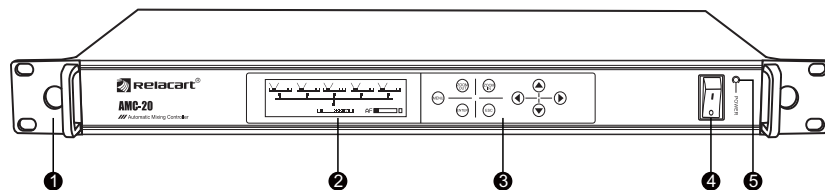
1. Please read instructions for safety operation carefully before installation and operation. Please save your safety operation guide for future reference.
2. Do not scratch, bend, twist, stretch or heat the power cord as this may cause damage to the power cord, resulting in a fire or electric shock.
3. Do not open the device shell, otherwise it may cause electric shock. If you need to repair, maintain or repair, please contact your local agent.
4. Do not touch the power plug with wet hands as this may cause a fire or electric shock.
5. Do not attempt to modify this device. Failure to do so may result in personal injury or product malfunction.
6. Do not use this equipment near water.
7. If the power cord is damaged (such as a broken wire or bare core), obtain replacement parts from your dealer. Continued use of the equipment with a damaged power cord may result in fire or electric shock.
8. To move the device he power, unplug the power cord, and unplug all connecting cables as this may damage the cable, resulting in a fire or electric shock.
9. Before cleaning the device, unplug the power cord and unplug all connecting cables. Please clean it with a dry soft cloth.
10. If the device is not in use for a long time, turn off the power, it is best to unplug the socket.
11. With the power plug and appliance coupler as the disconnecting device, it should be kept easy to operate.
12. For the safe use of the equipment and adequate ventilation, the minimum clearance around the equipment should be maintained at a distance of 5 cm or more.
13. DO NOT cover the Ventilation holes, such as: newspaper / fabric / curtains and other items.
14. Equipment should not be placed on a bare flame source, such as: lit candles.
15. Battery should not be exposed to sunshine, roasted or other high temperature overheating environment.
16. Do not throw the waste battery, please put in the designated bins.
17. Water protection rating: IPX0
18. The device can be used normally in tropical / temperate climates.
19. This product is only suitable for safe use at the altitude of 2000m and below.
20. This symbol “⚡” indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
21. All Relacart products will be afforded one year free maintenance except for man-made damage, such as:
 - the device is damaged by man-made factors.
 - the device is damaged by improper operation.
 - some components are damaged or loss after the self-disassembly.

02 Packing List

- ◆ AMC-20 *1
- ◆ 5P quick connector (female)*2
- ◆ Power adapter*1
- ◆ Simple operation manual *1

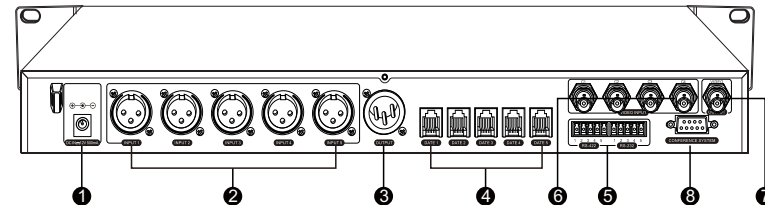


03 Front Panel Function Introduction



- ❶ Rack mount holder: Fixed installation.
- ❷ OLED display: display the status information. (See details on the next page)
- ❸ Touch panel: Touch the buttons on the control panel.
- ❹ Power switch: turn on and off the power of the device.
- ❺ Power switch indicator light: the indicator light will light up after power on.

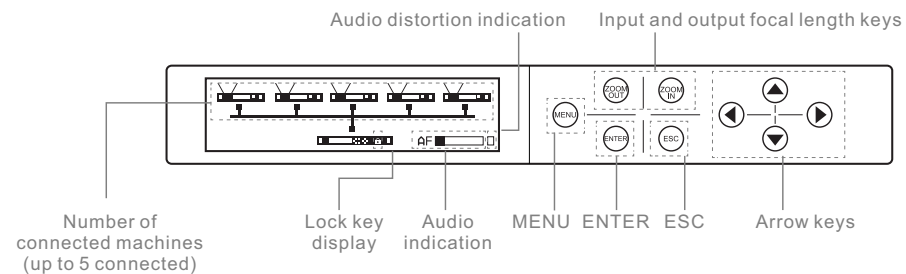
04 Rear Panel Function Introduction



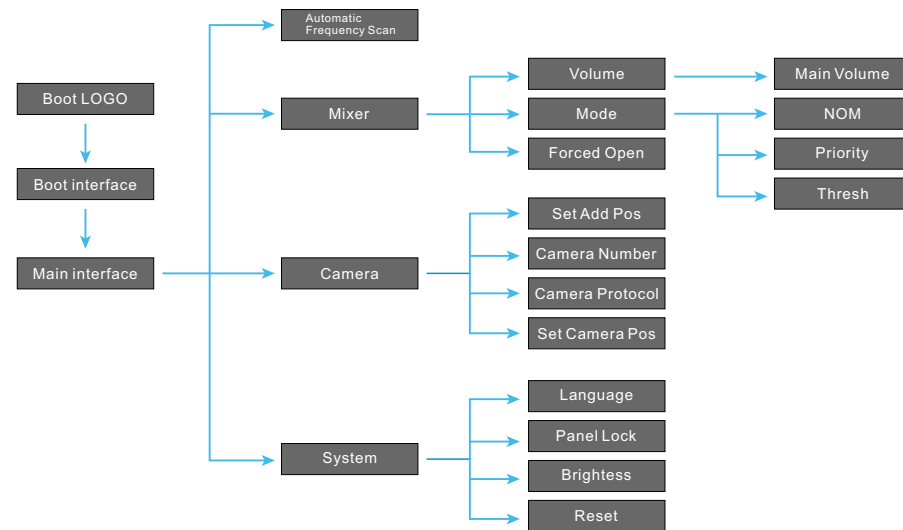
- ❶ Power input port: DC-12V power adapter input.
- ❷ Audio input port: XLR female balanced input, connected to each WAM-432 audio.
- ❸ Audio output port: XLR balanced output.
- ❹ RJ11 data port: RJ11 telephone line interface for data communication with WAM-432.
- ❺ 5P quick connector port: Choose RS-422 or RS-232 interface according to actual needs.
- ❻ Camera BNC video input port: Mainly used to connect the video data of the camera.
- ❼ Camera BNC video output port: Mainly output the video data of the camera.
- ❽ RS-232 port: No data is available for the time being.

05 Software function introduction

LCD screen, button operation instructions



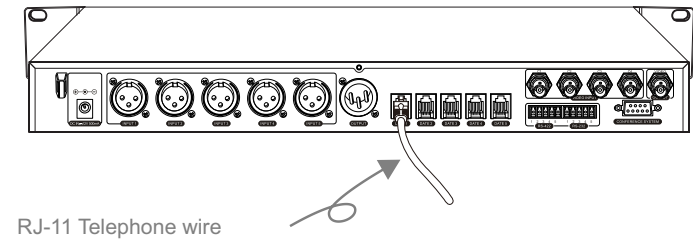
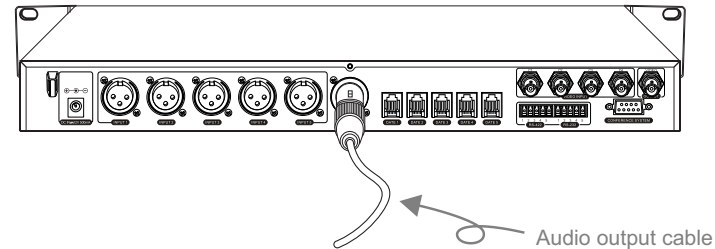
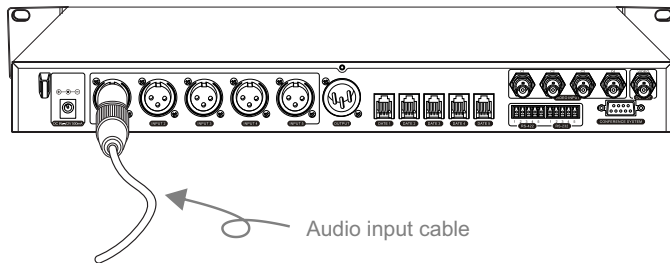
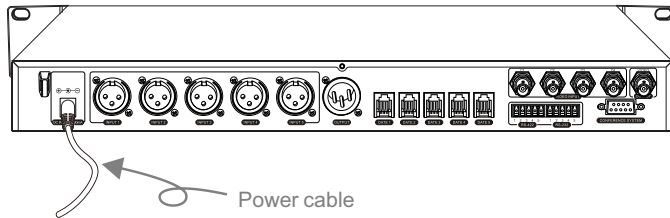
Menu Architecture diagram

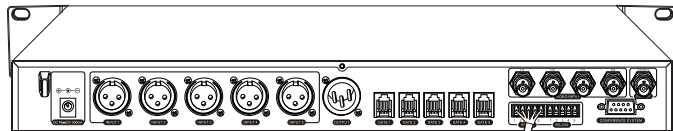


Key operation instructions

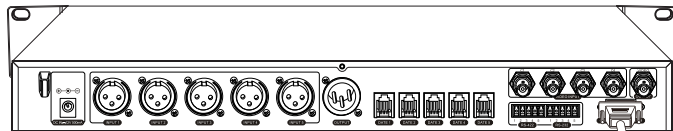
- ❶ Main interface: Mainly display the connection between AMC-20 and WAM-432 and the actual situation of AMC-20 output audio (AF).
- ❷ Automatic frequency allocation: According to the on-site environment, the frequency points that can be used without interference are allocated to WAM-432.
- ❸ Total volume setting: adjustable range of output volume 0-25 of AMC-20 whole system (mixing setting-Volume adjustment).
- ❹ Set the number of speakers: The number of simultaneous speakers in the entire AMC-20 system can be adjusted. Each additional WAM-432 can increase the number of simultaneous speakers (mixing settings-mode settings-number of speakers).
- ❺ Priority selection setting: The priority channel of the AMC-20 whole system can be adjusted, and it is not limited by the number of speakers, voice valve and other functions. It can be set up to 2 (mixing setting-mode setting-priority selection).
- ❻ Sound valve setting: It can be set according to the on-site environment to make the mixing function better, and the range of change from 1-10 can be adjusted (mixing setting-mode setting-sound valve).
- ❼ Forced opening setting: All channels of the AMC-20 whole system can be connected directly without being restricted by the number of speakers, voice valve and other functions (mixing setting-forced opening).
- ❽ Machine coordinate setting: You can set the visual coordinate position of all channels of the AMC-20 complete system (visual setting-machine coordinate setting).
- ❾ Camera number setting: It can be set according to the actual number of cameras used, and up to 4 can be set (camera setting—camera number setting).
- ❿ Preset position setting: Adjust the initial position of the camera (That is the default position, when all channels do not speak for 10 seconds, the camera will point to this position (camera setting-camera number setting).
- ⓫ Language setting: You can set the language display (Chinese, English) of the AMC-20 interface (system setting-language selection).
- ⓬ Key lock: The AMC-20 menu function can be locked and cannot be operated (system setting-key lock setting).
- ⓭ Brightness setting: Set the brightness (1-10) of the AMC-20 interface (system setting-brightness setting).
- ⓮ Reset device: restore all settings of AMC-20 to factory default (system settings-reset settings).

06 Device Installation

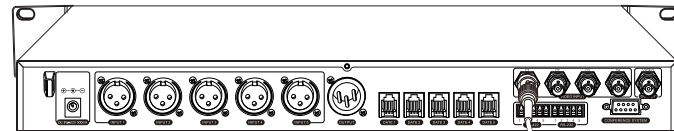




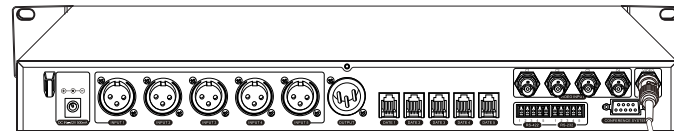
5P quick connector connection
(Note: Choose one of RS-422 or RS-232)
RS-232 interface (not yet open)



RS-232 interface
(Not yet open)



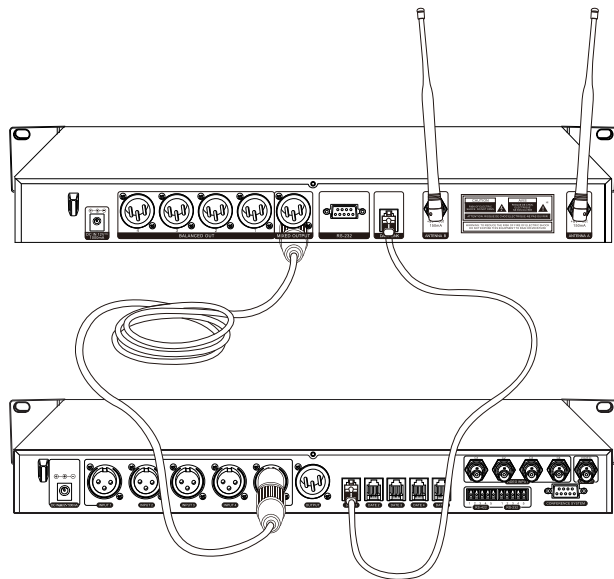
Video input cable



Video output cable

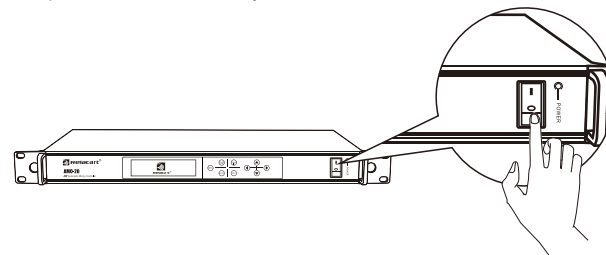
07 Simple operation step

First connect AMC-20 to WAM-432

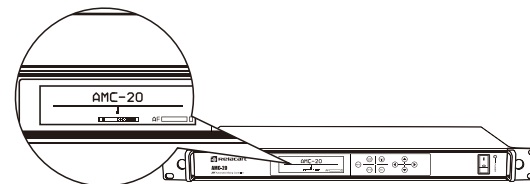


08 User simple steps

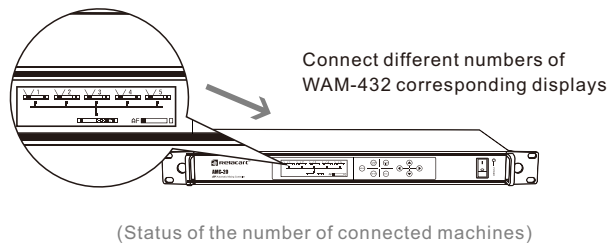
1. After inserting the relevant cables, turn the switch upwards and the POWER indicator lights up, then the power is successfully connected.



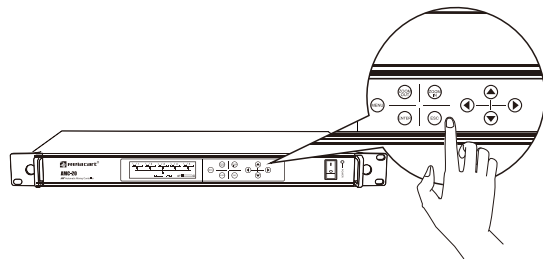
After the system is started, the AMC-20 screen will show the main interface of the system, and observe whether the screen is connected to WAM-432.



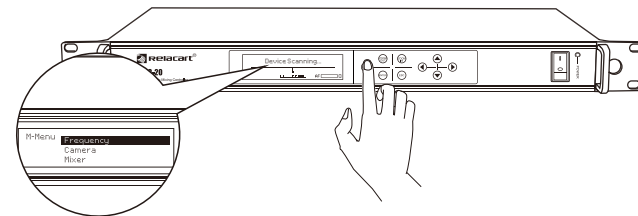
(Not connected to any few states)



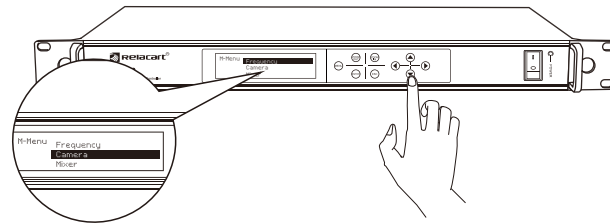
Touch the control panel button to enter the function operation setting.



Press MENU to enter the function main menu. (Frequency setting, video tracking setting, mixing setting, system setting)

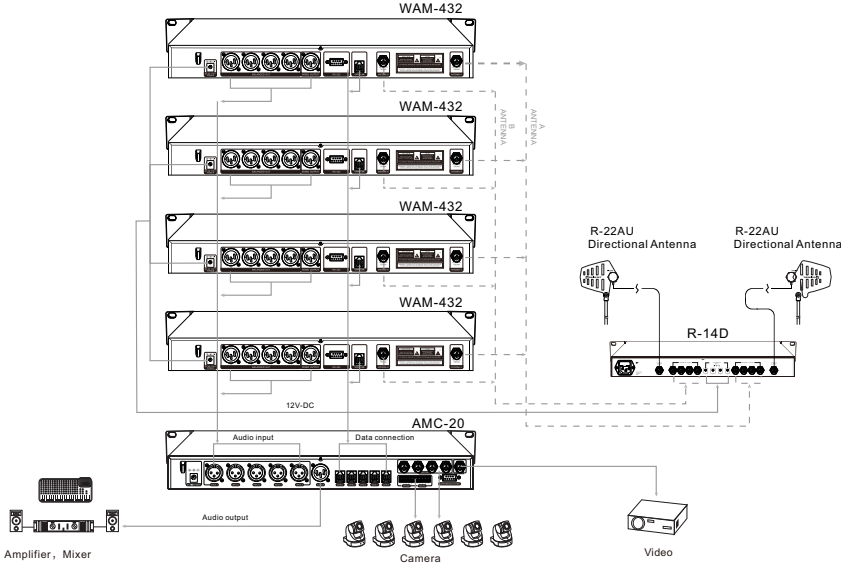


Press \leftarrow , \rightarrow , \uparrow , \downarrow to select an option and then press ENTER (confirm) or ESC (cancel) to program.



09 Conference Equipment Architecture Scheme Diagram

Note: This is an application plan for 4 WAM-432 units (up to 5 units)



10 Technical Specification

Power Supply:	DC 12V
Electric Current:	0.23A
Frequency Response:	20 Hz-20 kHz +0/-1dB
T.H.D:	<0.03%@1KHz
S/N:	>98 dB (THD<1%, f=1KHz)
Dynamic Range:	98dB
Video Input Port:	BNC female
Video Output Port:	BNC female
Video Interface Impedance:	75Ω
RS-232 Control Protocol Interface:	5P quick connector
RS-422 Control Protocol Interface:	5P quick connector
RS-232 Control Protocol Interface:	9-pin serial port female socket
Data Interface:	RJ11
Audio Output:	XLR female
Audio Input:	XLR Male
Display Type:	OLED
Key Mode:	Touch type
Dimension (mm):	410 (W) x 206 (D) x 43 (H)
Weight:	Approximately 1.8kg