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MAJORCOM
RM-6000 Matrix
Remote
Microphone
and Wall
Controller

MAJORCOM RM-6000 Matrix Remote Microphone and Wall Controller User Manual

Contents

MAJORCOM RM-6000 Matrix Remote Microphone and Wall Controller

Product Information

Specifications

- Product Name: RM-6000 | LM-6000
- Compatibility: MATRIX PX-6120
- Components: Remote Microphone (RM-6000) & Wall Controller (LM-6000)
- Input Channels: 5
- Microphone Panels Support: Up to 6
- Wall Control Panels Support: Up to 6
- Connection: RJ45 via Ethernet cable

Product Usage Instructions

RM-6000 Remote Microphone Usage

1. Ensure the microphone is connected via Ethernet cable.
2. Toggle the On/Off switch to power on the microphone.
3. Use the Zone selection buttons to choose the desired zone.
4. Press the Call button to initiate a call.
5. Adjust the Micro volume as needed.
6. For advanced settings, refer to the Configuration DIP switch and Addressing plan.

LM-6000 Wall Controller Usage

1. Connect the wall controller using the RJ45 connector.
2. Use the Previous and Next buttons to navigate audio sources.
3. To adjust volume, use the Audio + and Audio buttons.
4. To enable Bluetooth streaming, press the Bluetooth control button and adjust volume using volume buttons.
5. Ensure proper connection and DIP switch settings for functionality.

Connection and Configuration

1. The matrix amplifier supports multiple input channels and sources.
2. Configure mic inputs using DIP switches for various sources.
3. Ensure correct addressing for connection settings.
4. Use DIP switches for changing sound sources on the main unit or wall control panel.

Caution: Please read this manual carefully before using the device. Damage caused by misuse is not covered by the warranty.

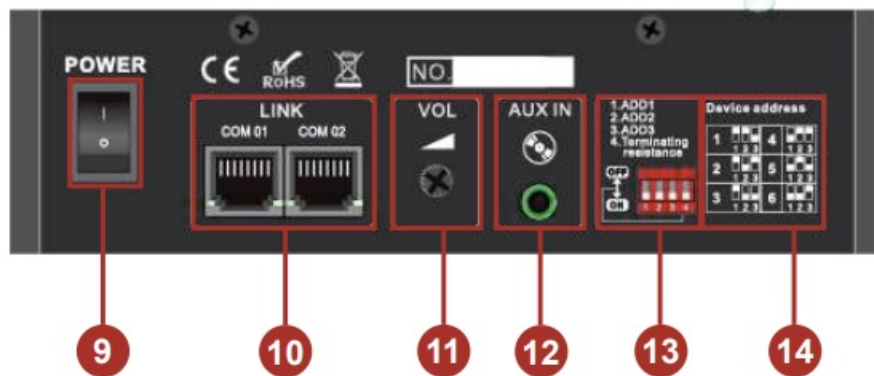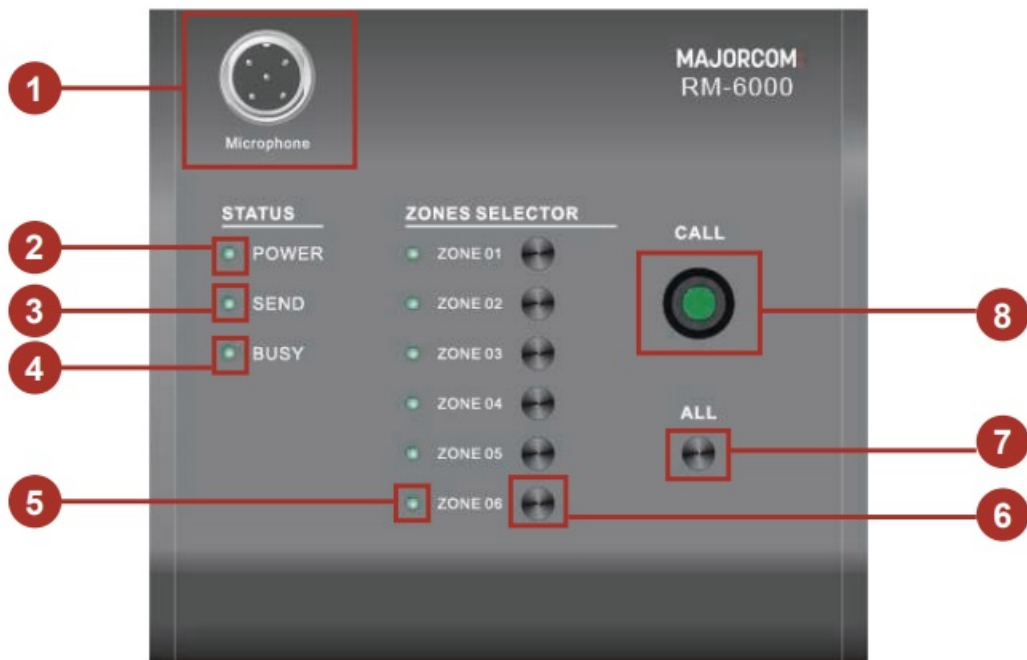**About this manual**

Dear User :
Thank you for choosing a MAJORCOM product. Before using RM-6000 and LM-6000, please read the this user manual, so you can know how to use our device.
Please keep the user manual in a safe place so you can check it again if you have any questions during use.

- **Objective**: Assists with the installation, configuration and operation of the RM-6000 and LM-6000.
- **Target people**: Users or installers of the RM-6000 & LM-6000.
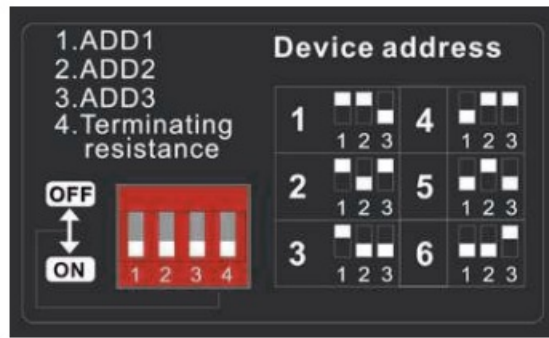
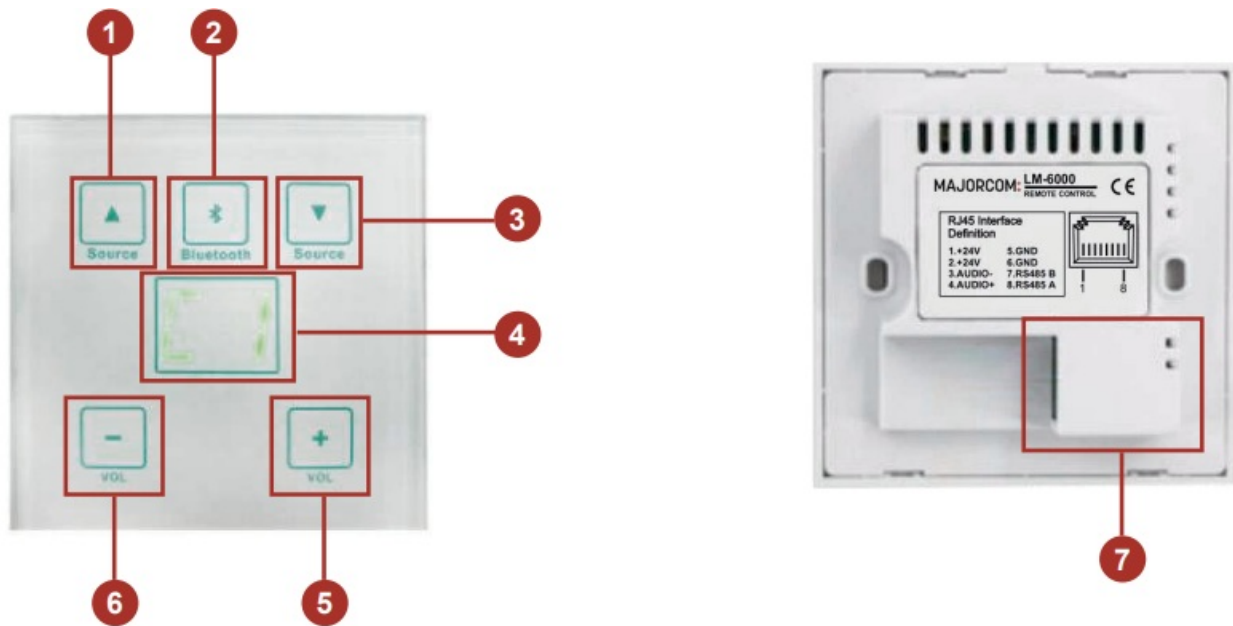## PARTS LIST

RM-6000 REMOTE MICROPHONE

1. Flexible microphone
2. Power LED
3. Call in progress LED
4. BUSY LED
5. Selected zone LED
6. Zone selection buttons
7. Select all zones button
8. Call button
9. On/Off switch
10. RJ45 connection via Ethernet cable (cascading cabling of the remote microphone)
11. Micro volume
12. Auxiliary input
13. Configuration DIP switch
14. Addressing plan of the microphone panels from 1 to 6

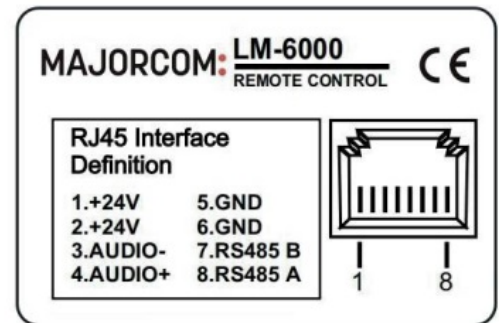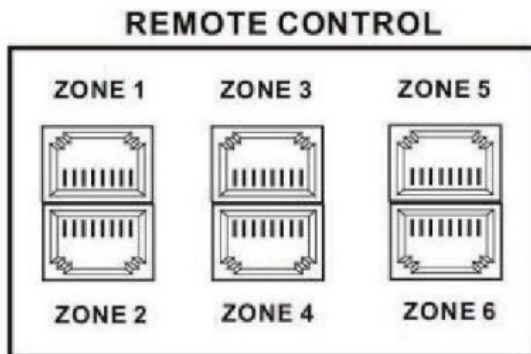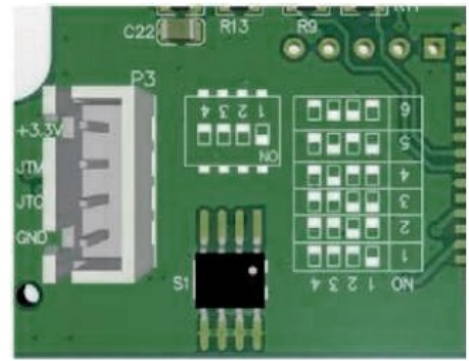Address adjustment diagram (4 is used to detect termination resistance)
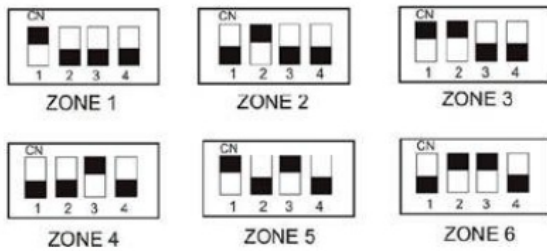
DIAGRAM

DIAGRAM OF THE FRONT AND REAR PANELS OF THE LM-6000 WALL CONTROLLER

1. Previous
2. Bluetooth control
3. Next
4. Display
5. Audio +
6. Audio –
7. RJ45 connector

ZONE 1　ZONE 2　ZONE 3
ZONE 4　ZONE 5　ZONE 6

REMOTE CONTROL

ZONE 1	ZONE 3	ZONE 5
ZONE 2	ZONE 4	ZONE 6

MAJORCOM: LM-6000 REMOTE CONTROL CE

RJ45 Interface Definition

1.+24V	5.GND
2.+24V	6.GND
3.AUDIO-	7.RS485 B
4.AUDIO+	8.RS485 A

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CONNECTION AND CONFIGURATION

1. The matrix amplifier has 5 input channels and a full multi-source audio player.
2. Mic inputs 1, 2, and 3 are designed for mic or line level sources such as CD or MP3 players or blender outputs.
   Thanks to the combo connector on the back panel, they can be switched via DIP switches.
3. Can accept an XLR plug or 6.35mm jack (balanced or unbalanced signal).
4. Supports up to 6 microphone panels and or up to 6 wall control panels.
5. The connection setting must match the address. Please refer to the back panel or bottom case of the device.

FOR DIP SWITCH SETTING
Change the sound source using the adjustment button on the front panel of the main unit or the touchscreen button on the wall control panel.

DIP SWITCH

1. The Mic /Line 1, 2 and 3 inputs each have 2 DIP switches set on the back panel and activate the +48V phantom power condenser microphone.
2. Set the correct level for the connected input source (MIC or line).
3. If the connected source is a condenser microphone that requires phantom power, please make sure the phantom channel is enabled.
4. Be sure to disable these DIP switches when setting up the extender. Any change in the power supply of the amplifier can cause loud noise in the system, which can damage the speaker.
5. The DIP switches on the paging microphone and wall control panel are used to configure the address to avoid conflicts.
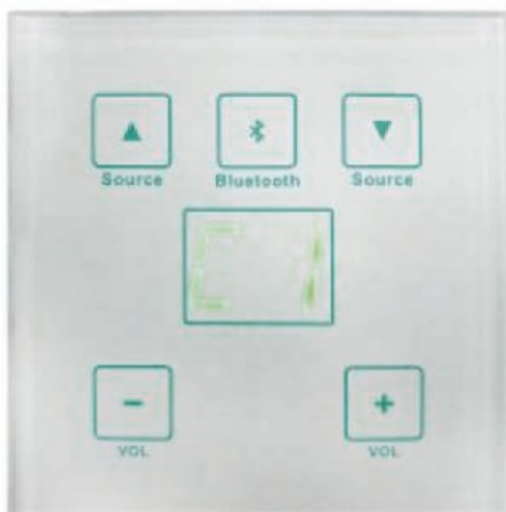
THE MICROPHONE (RM-6000) SPEAKS TO THE FIRST SELECTION

1. Press the Z1 key on the microphone (RM-6000), the call indicator lights up, and the host's digital display displays C0; press the green CALL key to start talking.
2. If you need to speak throughoutthe zones, you can press the ALL button to quickly select all the zones, and then press the CALL button to start speaking. The LEDs on the main panel all display C0.
3. If the microphone control (RM-6000) is not valid, please check if the composition code of the DIP address switch on the back panel is correct, if it matches and if there is a conflict.
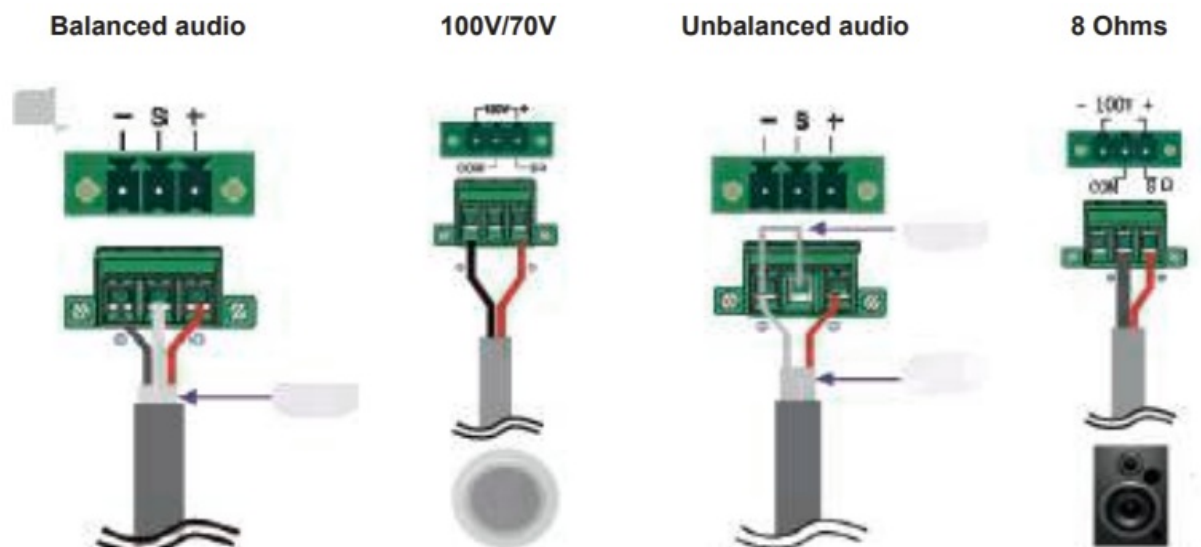
WALL CONTROL PANEL

LM-6000 BLUETOOTH WALL CONTROL PANEL

1. If you need to use the wall control panel (LM-6000) to select the source, use the more or less channel keys on the control panel to adjust the desired source.
2. If you need to stream Bluetooth separately, press the Bluetooth switch button, the panel displays C7, and the Bluetooth device can stream Bluetooth audio. The volume up and down buttons are used to adjust the volume.
3. If the control panel (LM-6000) is not displayed, check if the cable is properly connected. For the corresponding connection method, please refer to the description in the upper right corner of the network port on the back panel and the bottom box on the control panel (LM-6000).
4. If the control panel control (LM-6000) is not valid, please check if the composition of the dip address switch of the rear control panel (LM-6000) is correct, if it matches and if there is a conflict.

Note: Bluetooth connection, initially without password.

WIRING DIAGRAMS

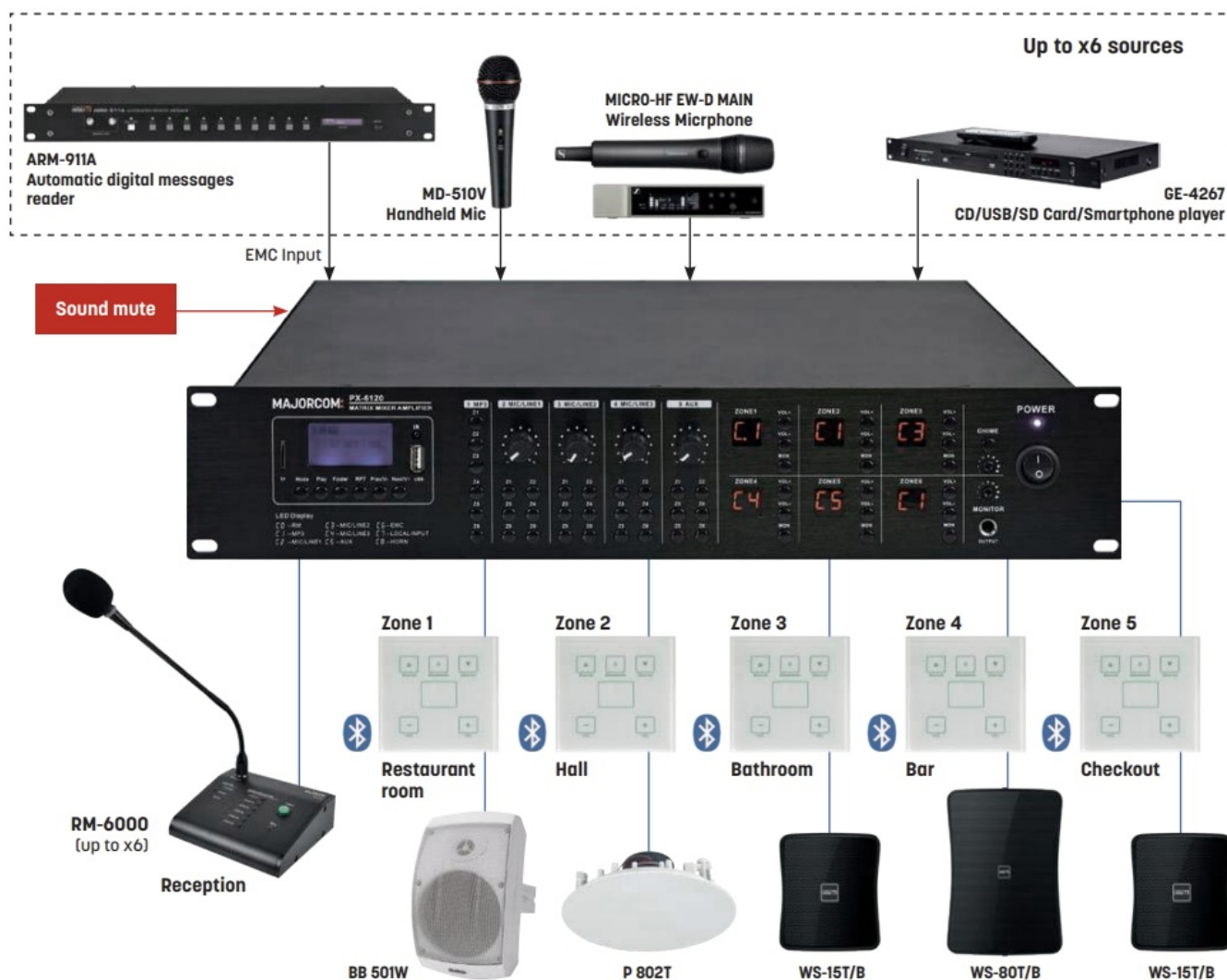Balanced audio   100V/70V   Unbalanced audio   8 Ohms

CAREFUL

1. Do not install the equipment in direct sunlight or near a heating element, as the device may deform, fade or go into a protective state due to the high temperature and stop working.
2. Do not install the equipment or store it in a dusty and damp place, otherwise it will lead to unstability of the system equipment or intermittent failure.
3. To prevent the equipment from being affected by a high electromagnetic field, the equipment should be as far away as possible from the strong magnetic field equipment.

SPECIFICATIONS

Model	RM-6000
Power Consumption	3 W
System Capacity	Up to 6 RM-6000 microphones per matrix
Aux Inputs	350mV, 10kΩ
Mic Input	5mV, 600Ω
Frequency Response	80 Hz ~ 16 kHz
THD	1% à RMS, 1 KHz
S/N Ratio	> 70 dB
Operating Temprature	-20 to +70°C
Power Supply	Direct fro the PX-6120 matrix, 24V DC, ±20%
Humidity	< 95 % no condensation
Dimension	153 × 52 × 175 mm
Weight	0,8 kg

Model	LM-6000
Power Consumption	3 W
System Capacity	Up to 6 LM-6000 wall controller per matrix
Frequency Response	20 hz – 20 khz
THD	1% à RMS, 1 KHz
S/N Ratio	> 70 dB
Operating Temprature	-20 to +70°C
Power Supply	Direct fro the PX-6120 matrix, 24V DC, ±20%
Humidity	< 95 % no condensation
Dimension	86 x 86 mm
Weight	0,12 kg

PA example: HOTEL

RM-6000

LM-6000
REMOTE MICROPHONE & WALL CONTROL FOR MATRIX PX-6120

Specifications are subject to change without notice. 10/2024

Manual to download in PDF format on **www.majorcom.fr**

Frequently Asked Questions

Q: How many microphone panels can be connected?
A: The system supports up to 6 microphone panels.

Q: How do I adjust the volume when using Bluetooth streaming?
A: Press the Bluetooth switch button on the LM-6000 panel and use the volume up and down buttons to adjust the volume.

Q: What should I do if the wall controller is not responding?
A: Check the cable connection and ensure correct DIP switch settings on the rear control panel. Resolve any address conflicts if present.

Documents / Resources

MAJORCOM RM-6000 Matrix Remote Microphone and Wall Controller [pdf] User Manual RM-6000, LM-6000, PX-6120, RM-6000 Matrix Remote Microphone and Wall Controller, Matrix Remote Microphone and Wall Controller, Microphone and Wall Controller, Wall Controller

References

- **User Manual**