

# USER MANUAL

## RM-6000 LM-6000

### REMOTE MICROPHONE & WALL CONTROLLER FOR MATRIX PX-6120



**MAJORCOM:**

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

• **About this manual**

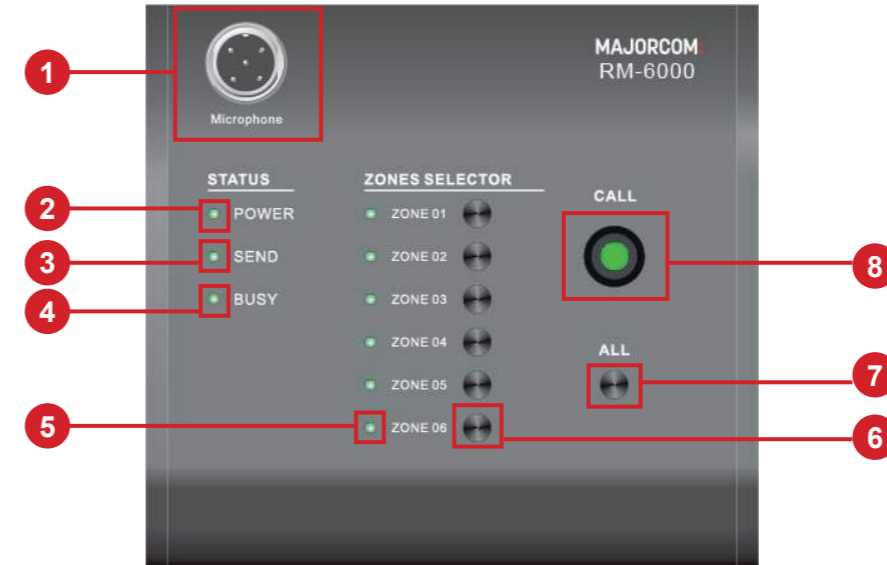
Dear User :

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.

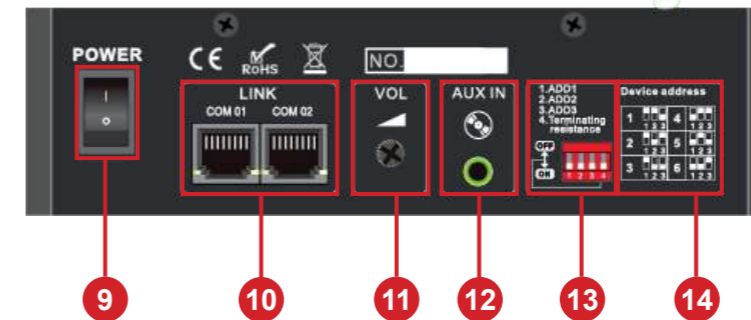
• **Objective** : Assists with the installation, configuration and operation of the RM-6000 and LM-6000.

• **Target people** : Users or installers of the RM-6000 & LM-6000.

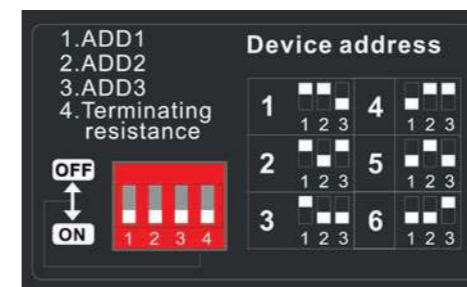
**RM-6000 REMOTE MICROPHONE**



- (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

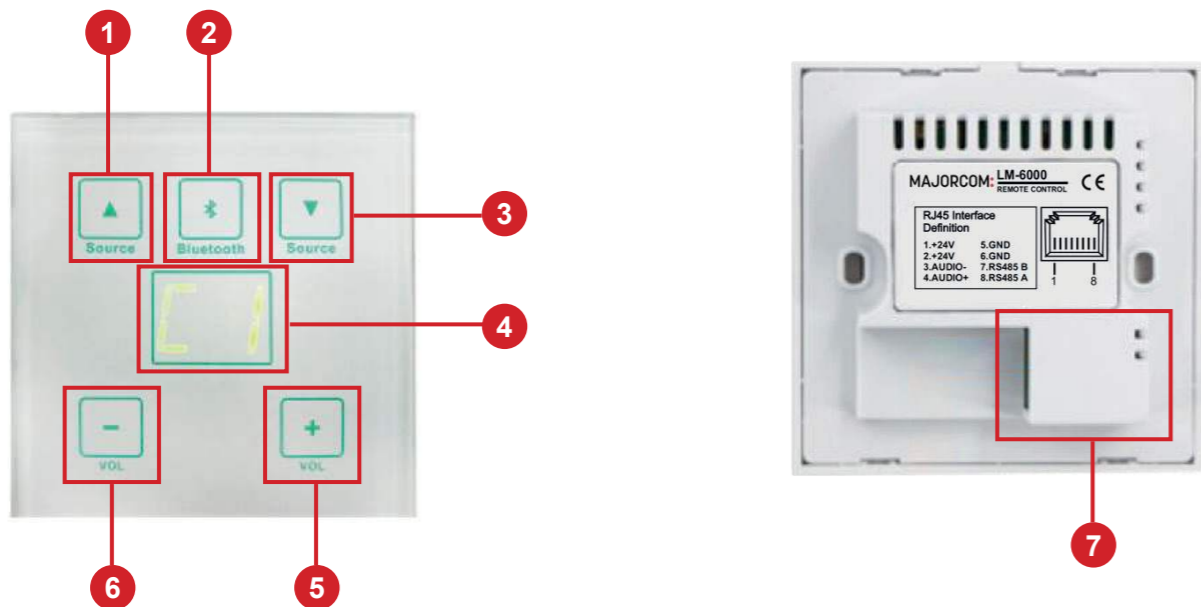


- (9) On/Off switch
- (10) RJ45 connection via Ethernet cable (cascading cabling of the remote microphone)
- (11) Micro volume
- (12) Auxiliary input
- (13) Configuration DIP switch
- (14) Addressing plan of the microphone panels from 1 to 6



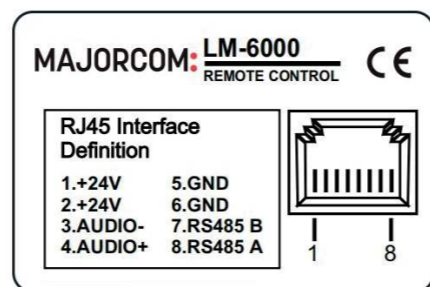
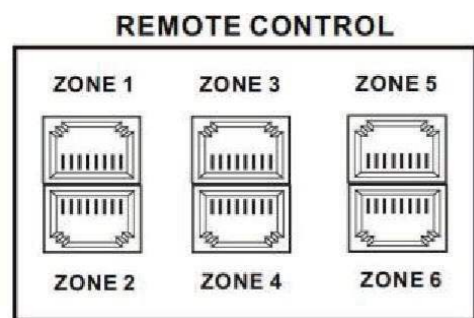
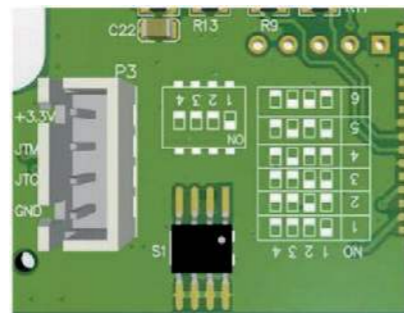
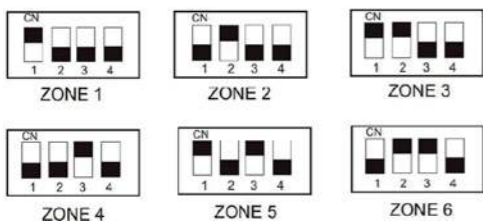
Address adjustment diagram (4 is used to detect termination resistance)

DIAGRAM 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



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

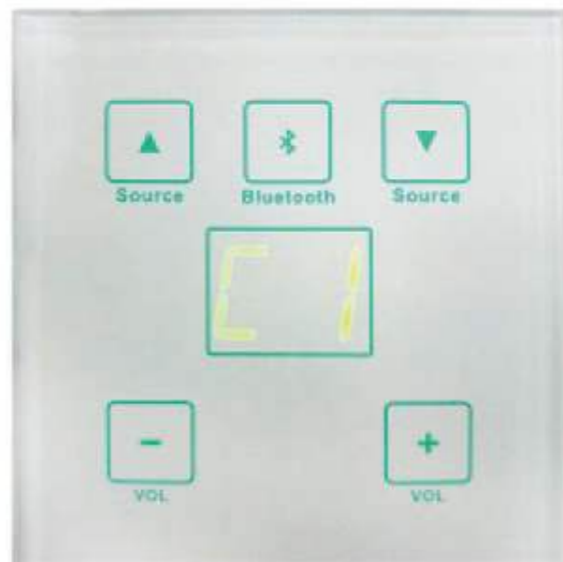
1. The Mic /Line 1, 2 and 3 inputs each have 2 DIP switches set on the back panel and activate the +48V phantom power condenser microphone.
2. Set the correct level for the connected input source (MIC or line).
3. If the connected source is a condenser microphone that requires phantom power, please make 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 throughout the 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.

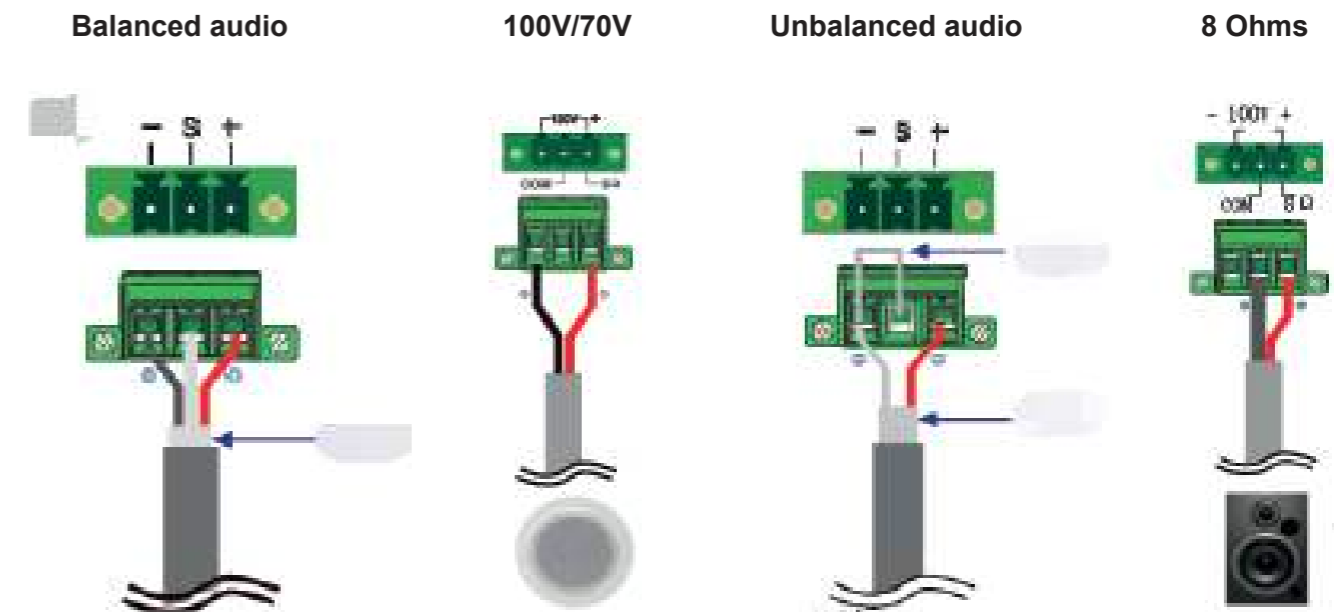
LM-6000 BLUETOOTH WALL CONTROL PANEL 

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



## CAREFUL

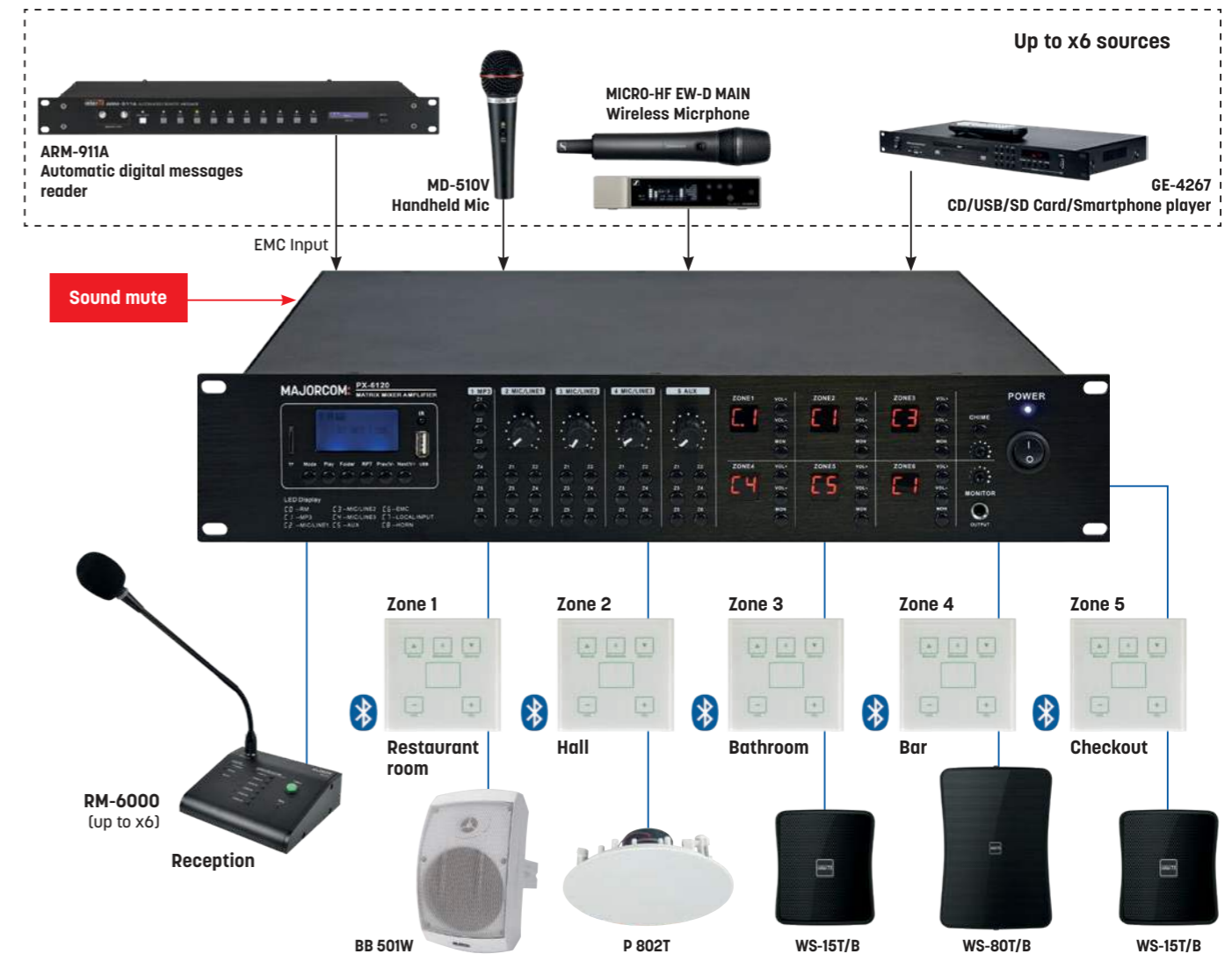
1. Do not install the equipment in direct sunlight or near a heating element, as the device may deform, fade or go into a protective state due to the high temperature and stop working.
2. Do not install the equipment or store it in a dusty and damp place, otherwise it will lead to instability of the 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 Temperature	-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 Temperature	-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

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FOR MATRIX PX-6120**

User manual

Specifications are subject to change without notice. 10/2024