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> [Aiphone VM-RMT Residential Fire Alarm Compatible Monitor Security Master Unit Instruction Manual](#)

Aiphone VM-RMT

Aiphone VM-RMT Residential Fire Alarm Compatible Monitor Security Master Unit

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Aiphone VM-RMT Residential Fire Alarm Compatible Monitor Security Master Unit. Please read this manual thoroughly before using the product and retain it for future reference.

2. SAFETY INFORMATION

To prevent injury to users or others, and to avoid property damage, please observe the following safety precautions. Incorrect operation due to disregard of instructions may cause harm or damage.

- **Electrical Safety:** Ensure the unit is connected to an AC100V 50/60Hz power supply. Do not attempt to open or repair the unit yourself. Refer all servicing to qualified personnel.
- **Installation:** Installation should be performed by a qualified technician. Ensure the unit is securely mounted according to the provided mounting dimensions to prevent it from falling.
- **Environment:** Do not expose the unit to direct sunlight, high humidity, extreme temperatures, or corrosive environments. Operate within the specified temperature range of 0°C to 40°C.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Emergency Button:** Familiarize yourself with the location and function of the emergency button for immediate use in critical situations.

3. PRODUCT OVERVIEW

The Aiphone VM-RMT is a residential security master unit featuring a monitor for fire alarm compatibility. It includes various indicators and controls for security and communication functions.

3.1 External View and Components

The diagram below illustrates the external features and key components of the VM-RMT unit.



Image Description: This diagram provides a detailed technical drawing of the Aiphone VM-RMT unit. It includes an external view

with dimensions (260mm height, 180mm width, 33.8mm depth), indicating the locations of the monitor (touch panel), emergency button, power LED, status LED, microphone, speaker, OFF button, and TALK button. Below this, a mounting diagram shows the recommended installation dimensions and a mounting height of approximately 1,400mm from the floor. The bottom section details the product specifications in a table format, covering power, consumption, display type, pixel count, weight, operating temperature, mounting type, compatible box, material, color, and included accessories.

- **Monitor (Touch Panel):** 7-inch TFT LCD display for visual information and interaction.
- **Emergency Button:** For immediate activation of emergency alerts.
- **Power (Green) LED:** Indicates the unit is powered on.
- **Status (Red) LED:** Indicates alarm or error conditions.
- **Microphone:** For two-way communication.
- **Speaker:** For audio output and communication.
- **OFF Button:** To turn off specific functions or silence alarms.
- **TALK Button:** To initiate or respond to communication.

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and safety of the VM-RMT unit. It is recommended that installation be performed by a qualified professional.

4.1 Mounting

The unit is designed for wall mounting. Use a JIS2 standard switch box with a separator for installation. The recommended mounting height is approximately 1,400mm from the floor to the center of the unit.

4.2 Wiring Diagram

The following diagram illustrates the necessary wiring connections for the VM-RMT unit, including power, external sensors, and auxiliary devices.



Image Description: This detailed wiring diagram for the Aiphone VM-RMT residential security master unit shows connections for the main unit to various external components. It illustrates the power supply (AC100V), connections to gas/CO sensors (up to 3 units), auxiliary sounders (up to 2 units), water leak sensors, fire sensors, call buttons, and other security sensors. It also shows connections for a camera unit and a residential door station. The diagram specifies cable types (e.g., AED, AEO) and connection points (e.g., R1, R2, G+, G-, A1, A2, B1, B2, SL, SC, ST, S1E, S2E, S3E, S4E, S5E), providing a comprehensive guide for system integration.

- **Power Connection:** Connect the AC100V 50/60Hz power supply to the designated terminals.
- **Sensor Connections:** The unit supports various sensors including gas/CO sensors (up to 3 units), fire sensors, and water leak sensors. Connect these to the appropriate terminals as shown in the diagram.
- **Auxiliary Devices:** Connect auxiliary sounders (up to 2 units) and call buttons as needed.
- **Camera Unit:** If applicable, connect the camera unit for visual monitoring.
- **Residential Door Station:** Connect the door station for communication with visitors.

5. OPERATING INSTRUCTIONS

The VM-RMT unit features a user-friendly touch panel display for easy operation.

- **Power On/Off:** The unit powers on automatically when connected to the power supply. Use the OFF button to silence alarms or turn off specific functions.
- **Monitor Display:** The 7-inch TFT LCD touch panel displays security status, alerts, and communication interfaces.

Tap icons or menu options to navigate.

- **Communication:** Press the TALK button to initiate two-way communication with connected door stations or other intercom units.
- **Emergency Alert:** In case of an emergency, press the EMERGENCY button to activate the alarm.
- **Status Indicators:** Observe the Power (green) and Status (red) LEDs for quick visual feedback on the unit's operational state and any active alerts.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your VM-RMT unit.

- **Cleaning:** Gently wipe the display and exterior surfaces with a soft, dry cloth. Do not use abrasive cleaners, solvents, or spray directly onto the unit.
- **Inspection:** Periodically check for any visible damage to the unit or wiring. Ensure all connections are secure.
- **Function Test:** Regularly test the alarm functions and communication features to ensure they are working correctly. Refer to the operating instructions for testing procedures.

7. TROUBLESHOOTING

If you encounter issues with your VM-RMT unit, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; loose power connection.	Check power cable connection. Ensure power outlet is functional.
No audio during communication.	Microphone or speaker issue; volume too low.	Check volume settings on the touch panel. Ensure microphone/speaker are not obstructed.
Alarm sounds unexpectedly.	Sensor triggered; false alarm.	Identify the triggered sensor via the display. Investigate the cause. Press OFF button to silence.
Touch panel unresponsive.	Temporary software glitch.	Disconnect power for 30 seconds, then reconnect to restart the unit.

If the problem persists after attempting these solutions, please contact customer support or a qualified service technician.

8. SPECIFICATIONS

Detailed technical specifications for the Aiphone VM-RMT unit.

Feature	Specification
Power Supply	AC100V 50/60Hz
Power Consumption	Standby: 4.5W, Maximum: 14.5W
Display	7-inch TFT LCD (Touch Panel)
Pixel Count	Approx. 1.15 million pixels
Weight	Approx. 1.0 kg

Feature	Specification
Product Dimensions (LxWxH)	26 x 18 x 3.4 cm
Operating Temperature	0°C to 40°C
Mounting Type	Wall Mount
Compatible Box	JIS2 Standard Switch Box + Separator
Material	Flame Retardant PC + ABS Resin
Color	Snow White
Included Components	Main Unit
Communication Method	Simultaneous Call Method
Fire Alarm Response	Japan Fire Protection Association Certified Product
Sound Pressure	70dB or more (1m in front, excluding voice)
JAN Code	4968249513001

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation included with your purchase or visit the official Aiphone website. Keep your purchase receipt as proof of purchase for warranty claims.

Contact Information: Please refer to the manufacturer's official website or your local distributor for the most up-to-date contact details for support.