Installation Manual

IX-MV (Master Station)

Introduction

- Read this manual before installation and connection.
- Read the "Setting Manual" and "Operation Manual" included on the DVD-ROM.
- Configure the system settings according to the "Setting Manual" after completing the installation and connection. The system will not function unless it has been properly configured.

Example of System Configuration

Part Names and Accessories

<table>
<thead>
<tr>
<th>Product number</th>
<th>Product name</th>
<th>Number of stations in address book</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX-MV</td>
<td>Master Station</td>
<td>500 stations¹</td>
</tr>
<tr>
<td>IX-DA</td>
<td>Video Door Station</td>
<td>20 stations²</td>
</tr>
<tr>
<td>IX-DP</td>
<td>Audio Only Door Station</td>
<td>20 stations²</td>
</tr>
</tbody>
</table>

Note: ¹ North America only.
² Only Master Stations can be registered (Max. 20).

Indicators

<table>
<thead>
<tr>
<th>Status indicator</th>
<th>Normal flashing</th>
<th>Device error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange light</td>
<td>0.2 sec, 0.2 sec</td>
<td>Communication failure</td>
</tr>
<tr>
<td>Green light</td>
<td>0.2 sec, 0.2 sec</td>
<td>Firmware version upgrading</td>
</tr>
<tr>
<td>Yellow light</td>
<td>0.5 sec, 0.5 sec</td>
<td>Installing</td>
</tr>
</tbody>
</table>

Precautions

Notice

1. Aiphone assumes no responsibility for damages as a result of delayed or unusable services, which are due to failures in network equipment, communication services by Internet and cellular phone companies, line interruptions, communication failures, or inaccuracies or omissions in the transmission unit.

2. We will not be held liable for damages that occur due to the inability to communicate due to malfunctions, problems, or operational errors in the product.

3. If personal information leaked by eavesdropping or unauthorized access in the communication paths over the Internet, please be aware that Aiphone assumes no responsibility for the damages.

4. We will not be held liable for any damages or losses resulting from this product’s contents or specifications.

5. This manual was created by Aiphone Co., Ltd., all rights reserved. Copying a part of or this entire manual without prior permission from Aiphone Co., Ltd. is strictly forbidden.

6. Please note that this manual may be revised or changed without prior notice.

7. Please ensure that product specifications may be changed for the sake of improvement without prior notice.

8. Please be aware that it is the customer’s responsibility to ensure that their computer is secure. We will under no conditions be liable for any security failures.

9. This system is not intended for life support or crime prevention. It is just a supplementary means of conveying information. Aiphone will under no conditions be liable for loss of life or property which occurs while the system is being operated.

10. Keep the unit more than 1m (3.3’) away from radio or TV set.

11. Install the unit in an area that is accessible for future inspections, repairs, and maintenance.

12. As to other manufacturer’s devices (such as sensor, detectors, door releases) used with this system, comply with the Specifications and Warranty conditions that the manufacturers or vendors present.

13. If the unit is down or does not operate properly, unplug the power supply or turn off the POWER switches.

14. If it is used close to a cellular phone, the unit may malfunction.

15. The unit can be damaged if dropped. Handle with care.

16. The unit is not tamperproof during power failure.

17. In areas where broadcasting station antennas are close by, the intercom system may be affected by radio frequency interference.

18. All units, except for door station, is designed for indoor use only. Do not use outdoor.

19. This product, being a control unit of door release, should not be used as a crime prevention device.

20. The LCD panel, through manufactured with very high precision techniques, inevitably will have a very small portion of its picture elements always lit or not lit at all. This is not considered a malfunction.

21. At a gate or porch illuminated by a fluorescent lamp, the picture may vary, but this is not a malfunction.

22. If stripes or fine patterns are reflected, outlines and colors shown may differ from actual people or environments, but this is not a malfunction.

23. Warm-color lighting shining on the video door station may change the tint of the picture on the monitor.

24. When using fluorescent lights to illuminate the screen its colors may periodically change (color rolling), but this is not a malfunction.

25. The unit case may become a warm use, but this is not a unit malfunction.
Installation of Master Station

1. Wall Mounting

   <Back wiring>

   Fill in name on signature card
   (1) Remove the transparent signature plate while pressing the top or bottom of the plate.
   (2) Remove the signature card.
   (3) Reattach the signature plate.

   Mounting height (equipment center)
   1,500 mm (5')

   Signature plate x1 (included*1)
   Signature card x1 (included*1)

   CAT5e/6 cable

   Attach the main unit to the mounting bracket.

   2

   Mounting bracket
   (attached to the back of the main unit.)
   Low voltage cable
   Mounting bracket screws (included) x4

   <Surface wiring>

   Connect the CAT5e/6 cable and low voltage cable to the main unit.

   1

   3-gang box

   3

   Attach the mounting bracket to the wall.

   Mounting height (box center)
   1,500 mm (5')

   Mounting bracket (attached to the back of the main unit.)

   Mounting bracket screws (included) x4

   **1: The signature plate and signature card are attached before shipment.

   Attach the main unit to the mounting bracket.

   1

   2

   3

   Connect the CAT5e/6 cable and low voltage cable to the main unit.

   2

   3

   Desk stand

   * Set the Desk stand on a flat surface to keep it stable.
   * If necessary, secure the Desk stand.
   * The Desk stand can be adjusted in 3 angles. Fit the legs into the grooves of the desired angle.

   Attach the mounting bracket to the Desk stand.

   2

   3

   Desk stand screws x4 (included)

   ▪ Insert the Desk stand screws into the mounting bracket screw holes, then attach the mounting bracket to the Desk stand tightly.
   ▪ If necessary, secure the CAT5e/6 cable or low voltage cable using the included cable tie.
   ▪ When using the Desktop mounting, use the included Desk stand.

   Attach the main unit to the mounting bracket.

   1

   2

   Desk stand screws x4 (included)

   Connection Precautions

   ▪ Use a straight cable when connecting between equipment.
   ▪ Do not use a CAT5e/6 cable with a bending angle of less than a 25 mm (1") radius. A radius of less than 25 mm (1") could cause a communication failure.
   ▪ Do not peel the jacket off the CAT5e/6 cable any more than is necessary.
   ▪ Attach the RJ45 modular plugs using either EIA/TIA-568A or 568B.

   CAT5e/6 cable

   Use the LAN tester to confirm conduction before connecting the CAT5e/6 cable.
   * The RJ45 connector with cover cannot be connected to CAT5e/6 cable terminals for Master Station or Door Stations. Use cables without covers on the connectors.

   ▪ Do not pull the CAT5e/6 cable or apply excessive load.

   Cable precautions

   ▪ Do not use separate conductors, twisted pair cables, or coaxial cables.

   ▪ Do not use an odd number cable.

   Wiring Connection

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   ** Relay Output Specifications

   Output method
   Normally open dry contact

   Voltage between the terminals
   AC 24V, 0.5A (resistive load)
   DC 24V, 0.5A (resistive load)

   Minimum load (AC/DC): 100 mV, 0.1 mA

   ** Contact Input Specifications

   Input method
   Form C dry contact (N/O or N/C)

   Level detection method
   Fixed detection time
   200 msec or more

   Contact resistance
   Maximum closure resistance: 700 Ω or less
   Minimum open resistance: 3 kΩ or more

   Terminal short-circuit current
   10 mA or less

   Voltage between the terminals
   DC 5 V or less (between open terminals)