Introduction

- Read this manual before installation and connection.
- After completing installation and connection, program the system according to the "Setting Manual".
- Perform installation and connection only after gaining sufficient understanding of the system and this manual.
- The illustrations used in this manual may differ from the actual stations.

Example of System Configuration

<table>
<thead>
<tr>
<th>IX-DA</th>
<th>IX-MV</th>
<th>IX-SS-2G</th>
</tr>
</thead>
<tbody>
<tr>
<td>PoE switch (third party)</td>
<td>PoE switch (third party)</td>
<td>PoE switch (third party)</td>
</tr>
<tr>
<td>Camera (third party)</td>
<td>Network video recorder (third party)</td>
<td>Network camera (third party)</td>
</tr>
<tr>
<td>IX-WA 2G</td>
<td>IX-WA (third party)</td>
<td>IX-WA 2G</td>
</tr>
</tbody>
</table>

Status Indicator

<table>
<thead>
<tr>
<th>Status indicator</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange flashing</td>
<td></td>
</tr>
<tr>
<td>Normal flashing</td>
<td></td>
</tr>
<tr>
<td>Rapid flashing</td>
<td>Device error, Startup error</td>
</tr>
<tr>
<td>Long interval flashing</td>
<td>Communication failure</td>
</tr>
<tr>
<td>Long irregular flashing</td>
<td>Firmware version updating</td>
</tr>
<tr>
<td>Short irregular flashing</td>
<td>Initializing</td>
</tr>
<tr>
<td>Blue light</td>
<td>Standby</td>
</tr>
</tbody>
</table>

Part Names and Accessories

- Microphone
- Status indicator (Orange/Blue)
- Call indicator (Green)
- Communication indicator (Orange)
- Door release indicator (Green)
- Door release button (Green)
- Call/Talk button
- Call tone/incoming voice volume
- MAC address
- LAN port
- Option connector terminal
- Reset button

Example of System Configuration

- IX-RS-B, IX-RS-W (Handset Sub Station)

Precautions

**Warning**

- Negligence could result in death or serious injury.
  - Do not disassemble or modify the device.
  - Do not, under any circumstances, use an impact driver to fasten screws. Doing so may cause damage to the device.
  - Do not, under any circumstances, use an impact driver to fasten screws. Doing so may cause damage to the device.
  - Do not, under any circumstances, use an impact driver to fasten screws. Doing so may cause damage to the device.

**Caution**

- Negligence could result in injury to people or damage to property.
  - Do not install or connect the device with the power on.
  - Do not use the device if the power is interrupted.
  - Do not use the device if the power is interrupted.
  - Do not use the device if the power is interrupted.

**General Precautions**

- Install low-voltage lines at least 30cm (11") away from high-voltage lines (AC100V, 200V), especially inverter air conditioner wiring.
- Do not install in areas where there are business-use wireless devices such as a transceiver or mobile phones, it may cause malfunction.
- Do not install in areas where there are business-use wireless devices such as a transceiver or mobile phones, it may cause malfunction.
- Do not install in areas where there are business-use wireless devices such as a transceiver or mobile phones, it may cause malfunction.

**Notice**

- The illustrations and images used in this manual may differ from the actual items.
- If the device is installed in an area with an extremely strong electrical field, such as in the vicinity of a broadcasting station, it may create interference and cause a malfunction.
- If the device is installed in an area with an extremely strong electrical field, such as in the vicinity of a broadcasting station, it may create interference and cause a malfunction.
- Do not install or use in an oxygen filled with volatile gases. May cause fire or explosion.

**Precautions for mounting**

- Installing the device in the following locations could cause malfunction:
  - Locations close to the sea or directly exposed to sea breeze
  - Locations close to the sea or directly exposed to sea breeze
  - Locations close to the sea or directly exposed to sea breeze
  - Locations close to the sea or directly exposed to sea breeze

---

**Part Names and Accessories**

<table>
<thead>
<tr>
<th>IX-RS-B, IX-RS-W</th>
<th>Included accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front view</td>
<td></td>
</tr>
<tr>
<td>Back view</td>
<td></td>
</tr>
</tbody>
</table>

**Included accessories**

- Installation Manual ×2
- LAN cable ×2
- Product warranty (Japanese) ×1
- Notice (IX Manuals and Software) ×1
- Mounting bracket ×1 (attached to the unit)
How to Install

Installation of Handset Sub Station

Back wiring

1. Position the mounting bracket with “UP” facing up and affix.

2. Join the option connector (included) to the low-voltage lines, and insert the option connectors and Cat-5e/6 cable.

Surface wiring

1. Position with “UP” facing up.

2. Attach the unit to the mounting bracket.

How to Connect

Connection Precautions

Cat-5e/6 cable
- For connection between devices, use a straight-through cable.
- If necessary, when bending the cable, please observe the manufacturer’s recommendations. Failure to do so may cause a communication failure.
- Do not strip away the cable insulation for more than is necessary.
- Perform termination in accordance with TIA/EIA-568A or 568B.
- Before connecting the cable, be sure to verify conduction using a LAN checker or similar tool.
- Use PE (polyethylene)-insulated PVC jacketed cable. Parallel or jacketed conductors, mid-capacitance, non-shielded cable is recommended.
- Be careful not to pull on the cable or subject it to excessive stress.
- For connection between devices, use a straight-through cable.

Precautions regarding low-voltage line
- Use Cat-5e/6 twisted-pair cables, not Cat-5 parallel or Cat-5e/6 coaxial cables.
- Never use twisted-pair cable or coaxial cable.
- 2PR quad V twisted pair cables cannot be used.
- Use PE (polyethylene)-insulated PVC jacketed cable. Parallel or jacketed conductors, mid-capacitance, non-shielded cable is recommended.
- Be careful not to pull on the cable or subject it to excessive stress.
- For connection between devices, use a straight-through cable.

When connecting low-voltage lines, perform the connection using either the crimp sleeve method or soldering, then insulate the connection with electrical tape.

Crimp sleeve method
1. Line up the solid wire and stranded wire and wrap them together.
2. Crimp terminal
3. Electrical tape

Soldering method
1. Twist the stranded wire around the solid wire at least 3 times.
2. After bending down the point, perform soldering, with care that no wires protrude from the soldering
3. Electrical tape

If the connector-attached lead wire is too short, extend the lead with an intermediate connector.
- When using the crimp sleeve method, if the end of the connector-attached lead wire has been soldered, first cut off the soldered part and then perform crimping.
- After completing connection of wires, check that there are no breaks or inadequate connections. When connecting low-voltage lines in particular, perform the connection using either soldering or the crimp sleeve method and then insulate the connection with electrical tape. For optimal performance, keep the number of wiring connections to a minimum.

Simply twisting low-voltage lines together will create poor contact or will lead to oxidization of the surface of the low-voltage lines over long-term use, causing poor performance, keep the number of wiring connections to a minimum.

After completing connection of wires, check that there are no breaks or inadequate connections. When connecting low-voltage lines in particular, perform the connection using either soldering or the crimp sleeve method and then insulate the connection with electrical tape. For optimal performance, keep the number of wiring connections to a minimum.

Wiring Connection

Install and secure unused low-voltage lines and the connector-attached lead wire.

Relay Output Specifications
- Output method: Form C dry contact (N/O or N/C)
- Contact rating: 24 VDC, 1A (resistive load)
- Maximum overload (AC/DC): 100mV, 0.1mA

Option Input Specifications
- Input method: Programmable dry contact (N/O or N/C)
- Input detection method: Level detection method
- Detection time: 100 ms or more
- Terminal short-circuit current: 10 mA or less
- Voltage between terminals: 6.5VDC or less (between open terminals)

External Speaker Output Specifications
- Output impedance: 8 Ω
- Maximum output power: 2 W

---

3 External Speaker Output Specifications

Handset Sub Station

1. IEEE802.3 af
2. CAT-5e/6 straight
3. 100 m (330')

---

Contact pin 1: N/C, NC
Contact pin 2: N/O, NO
Contact pin 3: N/C, NC
Contact pin 4: N/O, NO
Contact pin 5: N/C, NC
Contact pin 6: N/O, NO
Contact pin 7: N/C, NC
Contact pin 8: N/O, NO