Introduction

• Read this manual before installation and connection.
• After performing installation, review with the customer how to operate system. Leave documentation accompanying the Master Station with the customer.
• Perform installation and connection only after gaining sufficient understanding of the system and this manual.

Example of System Configuration

Example of System Configuration

Part Names and Accessories

Status Indicator

Status Indicator

Part Names and Accessories

Precautions

Warning

Negligence could result in death or serious injury.

Do Not disassemble or modify the device.

Do not, under any circumstances, open up the device.

Voltage within some internal components may cause electrical shock.

The device is not designed to explosion-proof specifications. Do not install or use in an oxygen room or other such locations filled with volatile gases.

May cause fire or electrical shock.

Caution

Negligence could result in injury to people or damage to property.

Do not install or connect the device with the power on.

May cause electrical shock or malfunction.

Do not turn on power without first checking to make sure the wiring is correct and there are no improperly terminated wires. May cause fire or electrical shock.

Install the device in a position where it will not easily be brushed against by somebody’s shoulder, etc. Failure to do so could result in injury.

Do not play media over prolonged periods.

This may cause heat to build up inside the device, resulting in malfunction.

Do not open the LCD touch panel.

Condensation may occur, which may result in water damage and poor operation.

Do not install in a location where there is risk of exposure to liquid, dust, oil, or chemicals.

Failure to do so may result in fire or electrical shock.

Precautions for mounting

In 50Hz regions, if a wiring fluorescent light shines directly into the camera, it may cause the image to flicker.

If the device is used in areas where there are business-use wireless devices such as a transceiver or mobile phones, it may affect or cause interference.

It is the responsibility of the system owner to post signs or warnings in accordance with local ordinances.

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How to Install
The illustrations explain installation using the IX-MV7-HW model.

Installation of Master Station

■ Back wiring
3 Attach the unit to the mounting bracket.
4 Connect the option connector (included) and the low-voltage lines using crimping method, then connect the option connector, the low-voltage lines and Cat-5e/6 cable.

■ Surface wiring
6 Connect the option connector (included), low-voltage lines, and Cat-5e/6 cable to the unit.

Mounting on the desktop stand
1 Assemble the desktop stand.
2 Attach the unit to the mounting bracket.
3 Attach the option connector (included), low-voltage lines, and Cat-5e/6 cable to the unit.
4 Attach the unit to the desktop stand.
5 Fasten the unit and the desktop stand together with a desktop-stand fastening screw (included) from the back of the desktop stand. (Viewed from the back, there is a desktop-stand fastening screw hole in the lower center.)

Camera View Range and Mounting Position

■ Camera View adjustment
Using the camera angle adjustment lever, the camera can be tilted down (0° to -20°). Please adjust the camera to the optimal position.

■ Camera view range
The camera range as illustrated is only an approximate indication and may vary according to the environment.

When installed on a flat desktop (with desktop stand at 45° and camera angle at the lowest position [-20°])
When installed on a flat desktop (with desktop stand at 30° and camera angle at the lowest position [-20°])

* Fasten the mounting bracket to the desktop stand with the supplied screws.
* If necessary, secure the Cat-5e/6 cable or low-voltage line using the included cable ties.
* When using the Desktop mounting, use the included Desktop stand.

** Insert a microSD card into the microSD card slot if needed.

- If the accessory screws are unusable for plaster board or a concrete wall, etc., please use a product such as an anchor or concrete plug (not included).
**How to Install**

*Wall mounting*

- Camera angle 0°
- Camera angle -20°

When light enters the camera, the monitor screen may flicker brightly or the subject may become dark. Try to prevent strong lighting from entering the camera directly.

**How to Connect**

**Connection Precautions**

- **Cat-5e/6 cable**
  - For connection between devices, use a straight-through cable.
  - Do not strip away the cable insulation any more than is necessary.
  - Before connecting the cable, be sure to verify conduction using a LAN checker or similar tool.
  - Perform termination in accordance with TIA/EIA-568A or 568B.
  - Never use twisted-pair cable or coaxial cable.

- **Precautions regarding low-voltage line**
  - 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.

- **Connection and disconnection of low-voltage lines**
  - Insert the line into the quick connection terminal.
  - If the line does not go in easily, push the low-voltage line into the terminal while pressing down the detachment button.
  - When removing a low-voltage line, pull on the line while pressing down the detachment button.

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

**Wiring Connection**

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

**Contact Input Specifications**

- Input method: Programmable dry contact (N/O or N/C)
- Input detection method: 5V detection method
- Detection time: 100 msec or more
- Contact resistance: Maker: 750 Ω or less
- Break: 3 kΩ or more
- Terminal short-circuit current: 50 mA or less
- Voltage between terminals: 5.5 VDC or less (between open terminals)

**Output Specifications**

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

**Paging Audio Input Specifications**

- Input impedance: 200 Ω
- Input audio level: 50 mVrms

**External Speaker Output Specifications**

- Output impedance: 8 Ω
- Maximum output power: 150 mW