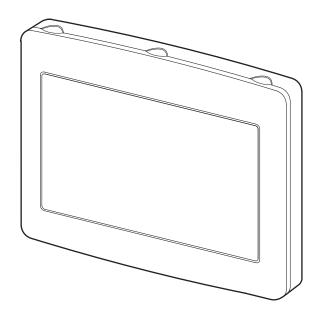
AIPHONE

Installation Manual



IXW-MA (multi-purpose adaptor)

Introduction

- Read this manual before installation and connection. Read the "Setting Manual" and "Operation Manual". The manuals can be downloaded from our homepage at "<u>https://www.aiphone.net/product/support/</u>" free of charge. (The manuals will be available from 9 November 2018 onwards.)
- After completing installation and connection, program the system according to the "Setting Manual". The system cannot operate unless it is programmed.
- After performing installation, review with the customer how to operate system. Leave documentation accompanying the Master Station with the customer.



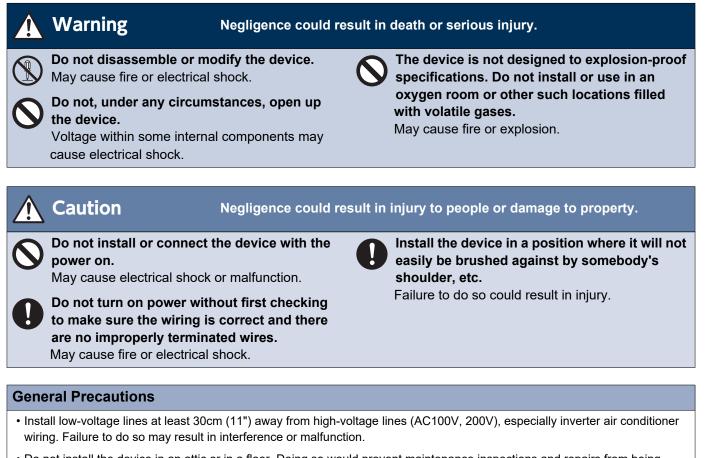
- Perform installation and connection only after gaining sufficient understanding of the system and this manual.
- The illustrations used in this manual may differ from the actual stations.

Literature information

The important information concerning correct operation and what you should observe is marked with the following symbols.

🕂 Warning	This symbol means that operating the device incorrectly or ignoring these precautions may cause severe injury or death.
▲ Caution	This symbol means that operating the device incorrectly or ignoring these precautions may cause severe injury or property damage.
\otimes	This symbol is intended to alert the user to prohibited actions.
0	This symbol is intended to alert the user to important instructions.

Precautions



• Do not install the device in an attic or in a floor. Doing so would prevent maintenance inspections and repairs from being carried out. It may also cause malfunction.

Notice

- This unit is designed for indoor use only. Do not install at outdoor location.
- If the device is used in areas where there are business-use wireless devices such as a transceiver or mobile phones, it may cause malfunction.
- If the device is installed close to a light dimmer, an inverter electrical appliance or the remote control unit of a hot-water system or floor-heating system, 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.

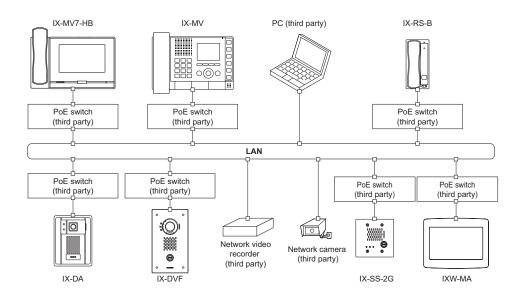
Precautions for mounting

- Installing the device in the following locations could cause malfunction:
 - Locations exposed to direct sunlight
 - Locations that get hot Close to a heater, boiler, etc.
 - Locations where there is risk of exposure to liquid, dust, oil, or chemicals
 - Locations with high humidity
 Bathroom, basement, greenhouse, etc.
 - Locations with low temperature
 Inside a cold storage warehouse, the front of a cooler, etc.
 - Locations directly exposed to steam or oil smoke Next to heating devices or a cooking space, etc.
 - Sulphurous environments such as a hot spring area
 - Locations close to the sea or directly exposed to sea breeze
- If existing wiring is used, the device may not operate properly. In that case, it will be necessary to replace the wiring.
- Do not, under any circumstances, use an impact driver to fasten screws. Doing so may cause damage to the device.
- This unit is designed for indoor use only. Do not install at outdoor location.

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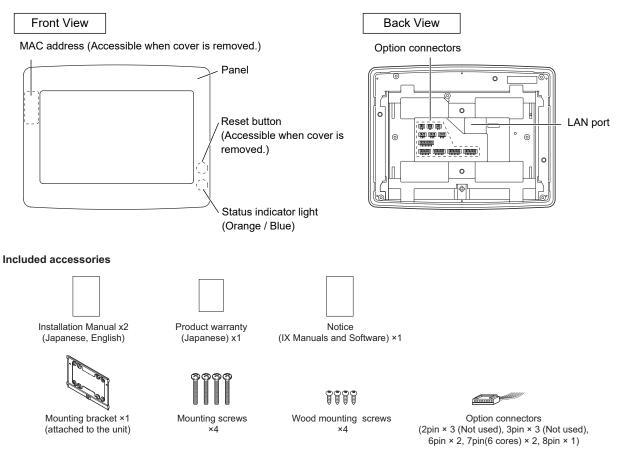
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Example of System Configuration



Multi-purpose adaptor

IXW-MA



Status Indicator

Refer to "IXW-MA Operation Manual" for additional indicators not listed.

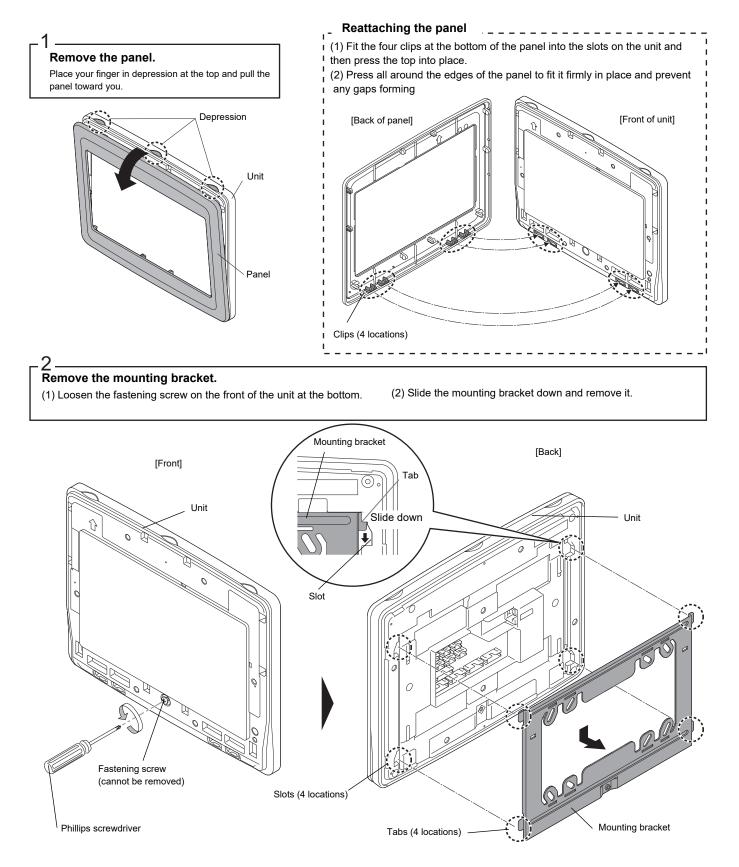
-)↓-:Lit □:Off

Status (Pattern)		Meaning
Orange flashing	Normal flashing	Booting
	→ -¥-0.75 sec → □ 0.75 sec -	
	Rapid flashing	Device error, Startup error
	→ -¥-0.25 sec → □ 0.25 sec →	
	Long interval flashing	Communication failure
	→ - <u>+</u> - 0.5 sec → □ 4 sec -	
	Long irregular flashing	Firmware version updating
	$\rightarrow \ddagger^{1}_{sec} \rightarrow \square \xrightarrow{0.25}_{sec} \rightarrow \ddagger \xrightarrow{0.25}_{sec} \rightarrow \square \xrightarrow{0.25}_{sec} \rightarrow \ddagger \xrightarrow{0.25}_{sec} \rightarrow \square \xrightarrow{0.25}_{s$	
	Short irregular flashing	Initializing
	$\rightarrow \ddagger^{1}_{sec} \rightarrow \square \stackrel{0.25}{sec} \rightarrow \ddagger \stackrel{0.25}{sec} \rightarrow \square \stackrel{0.25}{sec} \neg$	
Blue light	*	Standby

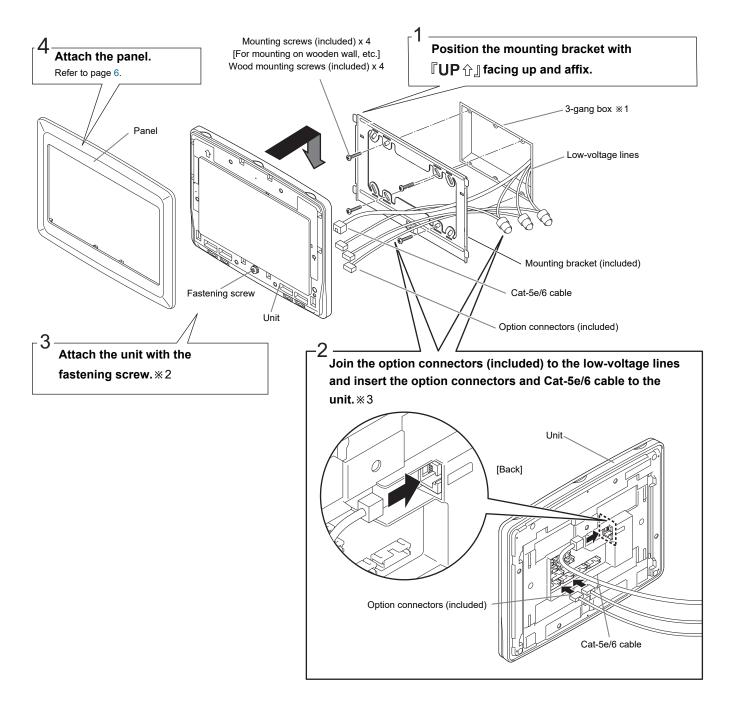
How to Install

Multi-purpose adaptor IXW-MA installation method

Perform before installation



• Mounting in a gang box



*1: Install in a place where the unit can be accessible.

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*2: When mounting the unit, be careful that no cables become caught between the unit and the mounting bracket.

*3: A wire diameter of PE 0.65 mm (22AWG) and a CE1 type crimp terminal are recommended. If any other types are used, those types of cable may not fit in the switch box.

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 could cause a communication failure.
- Do not strip away the cable insulation any 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.
- A RJ45 covered connector cannot be connected to the LAN ports of the master stations or the door stations. Use cables without
 covers on the connectors.



· Be careful not to pull on the cable or subject it to excessive stress.

Precautions regarding low-voltage line

- Use PE (polyethylene)-insulated PVC jacketed cable. Parallel or jacketed conductors, mid-capacitance, nonshielded cable is recommended.
- Never use twisted-pair cable or coaxial cable.
- 2Pr quad V twisted pair cables cannot be used.

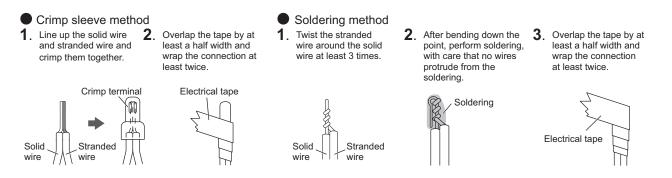
Coaxial cable

Parallel cable

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



- If the connector-attached lead wire is too short, extend the lead with an intermediate connection.
- As the connector has polarity, perform the connection correctly. If the polarity is incorrect, the device will not operate.
- 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 crimp.
- 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 contact and resulting in the device malfunctioning or failure.

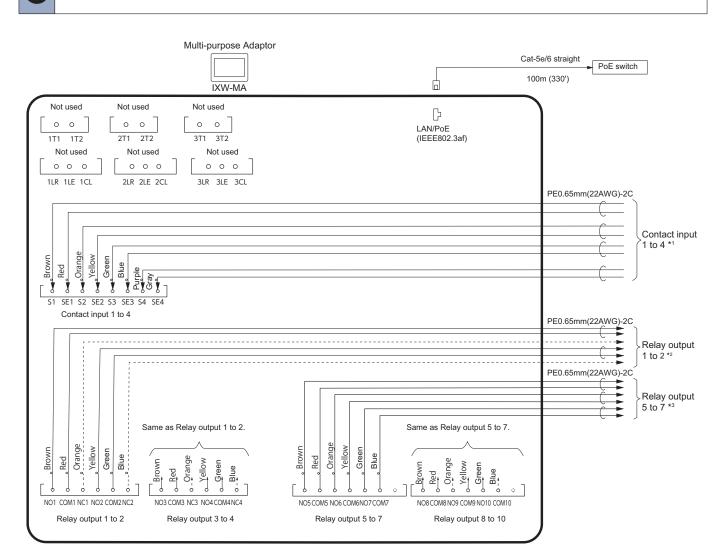
Soldering method Crimp sleeve method

Wiring Connection

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■ Multi-purpose adaptor IXW-MA connection example

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



*1 Contact Input Specifications

Input method	Programmable dry contact (N/O) or (N/C)
	Level detection method
Detection time	100 msec or more
Contact resistance	Make: 700 Ω or less Break: 3 kΩ or more
Terminal short-circuit current	10 mA or less
Voltage between terminals	5 VDC or less (between open terminals)

*2 Relay Output 1 to 4 Specifications

Output method	Form C dry contact closure (N/O or N/C)
Contact rating	24 VAC, 0.5 A (resistive load) 24 VDC, 0.5 A (resistive load) Minimum overload (AC/DC): 100 mV, 0.1 mA

*3 Relay Output 5 to 10 Specifications

Output method	Form A dry contact closure (N/O)
Contact rating	24 VAC, 0.5 A (resistive load) 24 VDC, 0.5 A (resistive load) Minimum overload (AC/DC): 100 mV, 0.1 mA



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