IXG System  

IP-based Residential System

IP-based Peer to Peer system
Communicate between Video Tenant Station and Video Entrance Station with no distance limitations.

To reduce any further cost, this system requires no servers.

Integration with IX system and network camera system.

Smartphone App Available
Never miss a call while away from home. You can answer a call with your smartphone.

IXG system
IXG System is the full IP Residential system which helps improve lifestyle convenience. Thanks to Smartphone App, you can respond to visitors while out.

Integration is the important key of IXG system. The system is perfect for complex buildings with mixed residential and commercial systems.

IP ONLY
IX system
NVR / VMS
IXG System is the full IP Residential system which helps improve lifestyle convenience. Thanks to Smartphone App, you can respond to visitors while out. Integration is the important key of IXG system. The system is perfect for complex buildings with mixed residential and commercial systems.

**IP-based Peer to Peer system**

Communicate between Video Tenant Station and Video Entrance Station with no distance limitations. To reduce any further cost, this system requires no servers.

**Smartphone App Available**

Never miss a call while away from home. You can answer a call with your smartphone.

**Integration**

Integration with IX system and network camera system.
Video Tenant Station
IXG-2C7

Receiving an incoming call and recording
Video/audio recordings can be selected from the history to be viewed.

Incoming a call and communicate with visitors

Calling the lift
(A lift control adaptor is required.)

Monitoring a door station
Monitoring an entrance station
Monitoring an IP camera

Calling flow

Call max.8 video tenant stations at the same time.

- 7-inch touchscreen LCD • Easy to recognize visitors with High-resolution display.
- Thin design • Blend in perfectly in any decor.

Can be registered max.8 mobile devices per each unit.

Max.8 Mobile devices

Lift
Lift control adaptor (IXGW-LC)

Max.8 video tenant stations

Max.8 video tenant stations

04
Receiving an incoming call and recording

Incoming a call and communicate with visitors

Recording

Video/audio recordings can be selected from the history to be viewed.

- Specification of recommended microSD card
  Recording function cannot be used without microSD card.

<table>
<thead>
<tr>
<th>Standard</th>
<th>microSDHC memory card</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported storage capacity</td>
<td>4 GB to 32 GB</td>
</tr>
<tr>
<td>Format</td>
<td>FAT32</td>
</tr>
<tr>
<td>Speed classes</td>
<td>SD speed class 10</td>
</tr>
</tbody>
</table>

Registration of mobile devices

Can be registered max. 8 mobile devices per each unit.

Calling the lift

You can call the lift to your floor. (A lift control adaptor is required.)

Monitoring for security

Monitoring a door station

Monitoring an entrance station

Monitoring an IP camera
Intercom App®

Answer calls anywhere inside or outside your home

- Answer calls from the entrance station, the video tenant station, the master station and the door station.
- Monitor the entrance station or the door station.
- Audio and video recording function.
- Confirm incoming call history. (Up to each 20 incoming calls are stored.)
- Operate electric locks.
- Up to 8 devices per each unit. (Residential Unit / Commercial Unit / Guard Unit)

Calling

Talking

Entrance

Mobile device

Scan the QR code

Free Download

Installation application

Intercom App®

AIPHONE IXG

Both iOS and Android are available

Configuration is complete if you can communicate with visitors.

* No video will be displayed for Door stations without cameras.
* The ringtone and other settings can be changed on the Settings screen.

Depending on the network environment or other factors, audio or video dropout, delays, lower frame rates, or other loss of correct operation might occur.

Scan the QR code distributed from the guard or management company, or the QR code shown on the tenant station screen.

QR code is a registered trademark of Denso Wave Incorporated.

IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

Android is a trademark of Google LLC.
Usage Example

**CASE 1**
Answer calls anywhere inside or outside your home

**CASE 2**
Handle deliveries when you are not at home

**CASE 3**
Communicate with child at home

How to use smartphone
Simple & easy download instructions for users.

1. Install application
   - **Free Download**

2. Scan the QR code
   - Scan the QR code distributed from the guard or management company, or the QR code shown on the tenant station screen.
   - *QR code is a registered trademark of Denso Wave Incorporated.*

3. Confirm operation
   - Configuration is complete if you can communicate with visitors.
   - *No video will be displayed for Door stations without cameras.
   - *The ringtone and other settings can be changed on the Settings screen.*

Recording
You can view audio and video on your mobile device.

**ATTENTION**
A gateway adaptor is required to make calls to mobile applications by connecting to the Internet.

- Depending on the network environment or other factors, audio or video dropout, delays, lower frame rates, or other loss of correct operation might occur.

![QR code](image-url)
Video Entrance station
IXG-DM7

How to call the room
There are three types of operation screens. They can be selected by tapping the icon at the top of the screen. Select any option to call.

Audio and video recording
- microSD card
- Integration with NVR/VMS
- Approx. 170° wide angle camera
- LED illumination for night vision
- 7-inch LCD Touchscreen
- Sensors: When visitors come to entrance, screen will turn on.

Door release by Access Code
- Changing language button
- Visitors can select the display language. An electric door can be released by entering an Access Code using the keypad.

Video and audio can be recorded on a microSD card in video entrance station. IXG-DM7 is compatible with the ONVIF Profiles. This allows video entrance station to be used with NVR/VMS.

Call by Unit Number
Screen.

Search by List
Screen

Search by Name Screen

Integrate with NVR/VMS and use as a CCTV.
How to call the room

There are three types of operation screens. They can be selected by tapping the icon at the top of the screen. Select any option to call.

Audio and video recording

Video and audio can be recorded on a microSD card in video entrance station.

Integration with NVR/VMS

IXG-DM7 is compatible with the ONVIF Profiles. This allows video entrance station to be used with NVR/VMS.

12 languages available

Visitors can select the display language.

Door release by Access Code

An electric door can be released by entering an Access Code using the keypad.
Guard Station

**IXG-MK**

*Available 3rd quarter of 2020*

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**Calling flow**

- **7 inch TFT colour LCD monitor**
  - Easy operation with 7-inch monitor.
  - Video monitoring of entrance stations.

- **Wide / Zoom & Pantilt**
  - See the 170° wide view video from the entrance stations.
  - Use zoom and pantilt functions for a detailed view.

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**Automatic recording of audio and video:**
- When receiving an incoming call, video and audio can be recorded automatically.
- Save the recording record on a microSD card.

**Manual recording of audio and video:**
- Video and audio can be recorded manually.
- Save the recording record on a microSD card.

**Audio and video playback:**
- Play audio and video recordings that are saved on a microSD card of a guard station from the station or a PC.

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**Door open**

**Paging**
- Voice paging: Page with voice to all stations or a building.
- Message paging: Page pre-recorded message to all stations or selected buildings.

**Call history**
- Up to each 100 incoming / outgoing call records are stored.

**Transfer**
- Calls can be placed on hold and transferred to another station manually by the operator.
- If no response occurs within a set interval, calls are automatically transferred to another pre-programmed station.
- The incoming calls are sent to another station automatically when absent transfer is enabled.
- Calls are automatically transferred to another station during scheduled times, such as after normal business hours.

**Network connection status check**

**Problem alert**

**Available 3rd quarter of 2020**

Use the guard station or your PC to find problems quickly and accurately to provide the utmost communication reliability.

**Network Monitoring**

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**Entrance Room Guard Station**

**Parking Zone Gate**

**IXG-DM7**

**IXG-2C7**

**IX-MV7-HB**

**IX-EA**

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Audio and video recording

- Automatic recording of audio and video:
  When receiving an incoming call, video and audio can be recorded automatically. Save the recording record on a microSD card.
- Manual recording of audio and video:
  Video and audio can be recorded manually. Save the recording record on a microSD card.
- Audio and video playback:
  Play audio and video recordings that are saved on a microSD card of a guard station from the station or a PC.

Transfer

<table>
<thead>
<tr>
<th>Manual transfer</th>
<th>Delay transfer</th>
<th>Absent transfer</th>
<th>Schedule transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calls can be placed on hold and transferred to another station manually by the operator.</td>
<td>If no response occurs within a set interval, calls are automatically transferred to another pre-programmed station.</td>
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Paging

- Voice paging: Page with voice to all stations or a building.
- Message paging: Page pre-recorded message to all stations or selected buildings.

Call history

- Up to each 100 incoming / outgoing call records are stored.

Automatic system status supervision

Use the guard station or your PC to find problems quickly and accurately to provide the utmost communication reliability.

Network Monitoring

- Network connection status check
- Problem alert
Other Features

Lift control adaptor

Installing a lift control adaptor gives the option to control lifts from the tenant station.

Video / Audio station for tenant station

You can connect door station or doorbell for each video door station.

System programming

Programming can be achieved using a PC running the IXG Support Tool. You can download IXG Support Tool from the AIPHONE web site. Ensure the operating environment of your computer meets the following conditions.

<table>
<thead>
<tr>
<th>OS</th>
<th>Microsoft Windows 7 Professional(SP1) / Microsoft Windows 7 Enterprise(SP1) / Microsoft Windows 8 / Microsoft Windows 8 Pro / Microsoft Windows 8 Enterprise / Microsoft Windows 8.1 / Microsoft Windows 8.1 Pro / Microsoft Windows 8.1 Enterprise / Microsoft Windows 10 Home / Microsoft Windows 10 Pro / Microsoft Windows 10 Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>32 bit (x86) processor or 64 bit (x64) processor of 1GHz or higher</td>
</tr>
<tr>
<td>Memory</td>
<td>4GB RAM or higher</td>
</tr>
<tr>
<td>Screen resolution</td>
<td>1280×768 or greater</td>
</tr>
</tbody>
</table>

Image of setting system

- We do not recommend using a wireless communication such as wireless LAN as it may not operate correctly due to security issues or communication speed delays.
- For IPv4 Address with DHCP, due to the architecture of the IXG system, DHCP configuration is only recommended for network environments utilizing managed (static) IP address leasing.
- For stateless IPv6 Address, do not change the prefix of the device so that it cannot transmit Router Advertisement (RA).
- For IPv6 Address with DHCP, due to the architecture of the IXG system, DHCP configuration is only recommended for network environments utilizing managed (static) IP address leasing. The DUID of the device: 00030001 + MAC address.
- Depending on the network environment or other factors, audio or video dropout, delays, lower frame rates, or other loss of correct operation might occur.
- The protocols used by this system must be supported.
- The network bandwidth required by each device when communicating are as follows.
  - G.711 : 64kbps ± 2 (in communication) H.264 : 128kbps-up to 2048kbps
  - IPv4 and IPv6 cannot be mixed in the same system.
  - If the Internet connection’s uplink speed is slow, video may not be displayed properly. (An uplink speed of 16 Mbps or more is recommended.)
  - Intercom app may become unavailable for a certain period of time due to maintenance on the cloud server.
  - If the cloud server terminates the service, you will not be able to use the intercom app.
  - The intercom app will be unavailable while the Gateway Adaptor firmware is being updated.
  - Due to the features and services provided by the Gateway Adaptor and the AIPHONE IXG app, future required changes to device functionality, network communication, security, etc. may require firmware updates unavailable to the Gateway Adaptor.
  - In this situation, the Gateway Adaptor would need to be replaced at the cost of the responsible party.
Other Features

AIPHONE website. Ensure the operating environment of your computer meets the following conditions.

- **System**: Programming control lifts from the tenant station.
- **Installation**: Installing a lift control adaptor gives the option to connect door station or doorbell for each video door station.

**NETWORK RESTRICTION**

- For IPv4 Address with DHCP, due to the architecture of the IXG system, DHCP configuration is only recommended for network environments utilizing managed (static) IP address leasing.
- For IPv6 Address with DHCP, due to the architecture of the IXG system, DHCP configuration is only recommended for network environments utilizing managed (static) IP address leasing.

- Depending on the network environment and computer, prior arrangements and setup operations involving the network administrator might be necessary.
- Depending on the network environment or other factors, audio or video dropout, delays, lower frame rates, or other loss of correct operation might occur.
- We do not recommend using a wireless communication such as wireless LAN as it may not transmit Router Advertisement (RA).

**Screen resolution**

- 1280x768 or greater

**Memory**

- 4GB RAM or higher

**CPU**

- 32 bit (x86) processor or 64 bit (x64) processor of 1GHz or higher

**Lift control adaptor (IXGW-LC)**

**Example of standard System**

- IX SYSTEM: IX-MV7-*, IX-RS-*1, door stations (IX-EA1, IX-DA2, IX-BA2, IX-DV, IX-DVF(*), IX-SS-2G1, IX-SSA(*))
- IXG SYSTEM: IXG-2C7, IXG-DM7, IXG-MK, IXGW-LC, IXGW-GW

The basic system consists of IXG devices, however you can also use the IX system devices below.

- IX SYSTEM: IX-MV7-*, IX-RS-*1, door stations (IX-EA1, IX-DA2, IX-BA2, IX-DV, IX-DVF(*), IX-SS-2G1, IX-SSA(*))
- IXG SYSTEM: IXG-2C7, IXG-DM7, IXG-MK, IXGW-LC, IXGW-GW

1 Scheduled to be connectable during the 3rd quarter of 2020. 2 Can be used with a standard system. Cannot be used with a multi-building system.

### Large Capacity

A maximum of 9,999 of the following stations and adaptors can be connected:

- **Residential Unit**: IXG-2C7, IXG-DM7, IXG-MK, IXGW-LC, IXGW-GW
- **Commercial Unit**: IXG-MK, IX-MV7-*, or IX-RS-* (max.8 per unit), mobile device (max.8 per unit), door station (max.2 per unit)
- **Entrance**: IXG-DM7 (max.10 per unit)
- **Guard Unit**: IXG-MK, IX-RS-* or IX-MV7-*, mobile device (max.8 per unit), door station (max.2 per unit)
- **Common Inside Area**: IXG-MK, IX-MV7-*, door station (max.2 per unit)
- **Common Outside Area**: IXG-MK, IX-RS-* or IX-MV7-*, mobile device (max.8 per unit), door station (max.2 per unit)
- **Other**: IXGW-LC (max.16 per building), IXGW-GW (max.1 per system)
Example of Complex building System

Installation example

**Residential Area**
- IXG-DM7×2 (Entrance)
- IXG-MK×1 (Guard Station)
- IXG-2C7×100 (Tenant Station)

**Parking Area**
- IX-DVF-2RA×8 (Parking lot)
- IX-MV7-HB×1 (Guard Center)

**Office Area**
- IX-MV7-HB×1 (Reception)
- IX-RS-B×10 (Tenant)

**Central Guard Centre**
- IXG-MK×1

Complex building

- **Tenant Station**
  - IXG-2C7
- **South Entrance**
  - IXG-DM7
- **North Entrance**
  - IXG-DM7
- **Tenant**
  - IX-RS-B
- **Office Area**
  - IX-MV7-HB
  - IX-GMK
- **Guard Station**
  - IX-MV7-HB
- **Emergency Stair**
  - IX-SSA-RA
- **Gate**
  - IX-DVF-2RA
- **Central Guard Centre**
  - IXG-MK

Emergency call

- **Residential Area**
  - IXG System
- **Parking Area**
  - IX System
- **Office Area**
  - IX System
- **Central Guard Centre**
  - IXG System

Floor

14 15
System configuration example of Complex building System
Example of Multi-building System

Maximum number of buildings: **99** buildings

A maximum of **9,999** of the following stations and adaptors can be connected with a multi-building system: IXG-2C7, IXG-DM7, IXG-MK, IX-MV7-*, IXGW-LC, IXGW-GW, IX-RS-*, door stations (IX-DV, IX-DVF(*)), IX-SS-2G1, IX-SSA(*), IX-EA1)

A maximum of **9,999** mobile devices can be connected in an entire multi-building system.

1 Scheduled to be connectable during the 3rd quarter of 2020
There is no need to install video tenant stations.
You can talk with visitors through your mobile device even if you are away from home.
Please refer to page 6 to learn about Intercom APP® basic functionality.
System Components & Unit Dimensions

**VIDEO TENANT STATION**

**IXG-2C7**

**FUNCTIONS**
- Calling another station in the Residential Unit.
- Monitoring
- Audio or video recording function

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Power source</th>
<th>Power-over-Ethernet (IEEE 802.3af Class 0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of communication</td>
<td>Full-duplex audio (depending on the destination station)</td>
</tr>
<tr>
<td>Monitor</td>
<td>7 inch TFT LCD display</td>
</tr>
<tr>
<td>Number of units in address book</td>
<td>Max.9999 units (IX/IXG stations: Max.500 stations + mobile applications: Max.9999)</td>
</tr>
<tr>
<td>Number of buildings</td>
<td>Max.99 buildings</td>
</tr>
<tr>
<td>Number of stations per room</td>
<td>8 stations and 8 mobile applications</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall-mount</td>
</tr>
<tr>
<td>Material</td>
<td>Self-extinguishing ABS resin</td>
</tr>
</tbody>
</table>

**FLUSH MOUNT KIT FOR TENANT STATION**

**IXG-FMK-2C7**

**FUNCTIONS**
- Others
  - Unlock an electric lock while receiving an incoming call, during communication, or while monitoring.
  - Up to each 20 incoming/outgoing call records are stored.
  - Control a lift by pressing the lift control button.

**UNIT DIMENSIONS**

**VIDEO ENTRANCE STATION**

**IXG-DM7**

**FUNCTIONS**
- Calling
  - Call Tenant stations and mobile applications in a Residential Unit.
  - Call stations and mobile applications in a Commercial Unit.
  - Call Guard stations and mobile applications in a Guard Unit.
  - Call stations in a Common Inside Area.
- Answer and communication
- Auto answer: Answer a call from another station automatically.
- Audio or video recording function
- Others
  - White LED light comes on automatically when calling, communicating, or being monitored in low light situation.
  - Change the display language temporarily. Audio message during a call and at the start of tenant unlocking an electric lock also change temporary.
  - Emails can be sent to pre-registered email addresses when triggering events occur.
  - (SD card error or recording memory full)

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Power source</th>
<th>Power-over-Ethernet (IEEE 802.3af Class 0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of communication</td>
<td>Full-duplex audio (depending on the destination station)</td>
</tr>
<tr>
<td>Monitor</td>
<td>7 inch TFT LCD display</td>
</tr>
<tr>
<td>Camera</td>
<td>1/2.7 inch color CMOS</td>
</tr>
<tr>
<td>Minimum illumination</td>
<td>5 Lux</td>
</tr>
<tr>
<td>Number of units in address book</td>
<td>Max.9998 units (IX / IXG stations: Max.9998 stations + mobile applications: Max.9999)</td>
</tr>
<tr>
<td>Number of buildings</td>
<td>Max.99 buildings</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall-mount</td>
</tr>
<tr>
<td>Material</td>
<td>Frame &amp; Back Box: Self-extinguishing ABS plastic</td>
</tr>
<tr>
<td>Remarks</td>
<td>Used for : IXG-2C7</td>
</tr>
</tbody>
</table>

**UNIT DIMENSIONS**

**BACK BOX FOR ENTRANCE STATION**

**IXG-DM7-BOX**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Power source</th>
<th>Power-over-Ethernet (IEEE 802.3af Class 0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of communication</td>
<td>Full-duplex audio (depending on the destination station)</td>
</tr>
<tr>
<td>Monitor</td>
<td>7 inch TFT LCD display</td>
</tr>
<tr>
<td>Camera</td>
<td>1/2.7 inch color CMOS</td>
</tr>
<tr>
<td>Minimum illumination</td>
<td>5 Lux</td>
</tr>
<tr>
<td>Number of units in address book</td>
<td>Max.9998 units (IX / IXG stations: Max.9998 stations + mobile applications: Max.9999)</td>
</tr>
<tr>
<td>Number of buildings</td>
<td>Max.99 buildings</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall-mount</td>
</tr>
<tr>
<td>Material</td>
<td>Stainless steel, vertical alignment finished material : Self-extinguishing ABS resin</td>
</tr>
<tr>
<td>Remarks</td>
<td>Used for : IXG-DM7</td>
</tr>
</tbody>
</table>

**UNIT DIMENSIONS**
**System Components & Unit Dimensions**

**VIDEO ENTRANCE STATION**
- **FLUSH MOUNT KIT FOR TENANT STATION IXG-2C7** Unitized with IXG-FMK-2C7
- **Monitoring**
  - Unlock an electric lock while receiving an incoming call, during communication, or while monitoring.

**BACK BOX FOR ENTRANCE STATION**
- IXG-DM7-BOX
- IXG-2C7

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Power source</th>
<th>Power-over-Ethernet (IEEE 802.3af Class 0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of communication</td>
<td>Hands-free automatic voice actuation</td>
</tr>
<tr>
<td>Camera</td>
<td>1/3-inch color CMOS</td>
</tr>
<tr>
<td>Minimum illumination</td>
<td>5 Lux</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall-mount</td>
</tr>
<tr>
<td>Material</td>
<td>Self-extinguishing ABS resin</td>
</tr>
</tbody>
</table>

**UNIT DIMENSIONS**

**DOOR STATION**

**GUARD STATION**

**FUNCTIONS**

- Calling
  - Call a single Entrance station.
  - Call guard stations and mobile applications.
  - Individual station or groups can be called.
  - Call all the tenant stations and mobile applications in an apartment.
  - Call a station in a common area.
- Monitoring
  - Monitoring video and audio from an Entrance station / station in a common area / Door station / network camera in a common area.
  - Automatically monitor the video and audio of preselected stations and network cameras at fixed time intervals.
- Audio and video recording function
  - When receiving an incoming call, video and audio can be recorded automatically. Save this record on a microSD card.
  - Video and audio can be recorded manually. Save this record on a microSD card.
  - Play audio and video recordings that are saved on a microSD card of a guard station with the station or a PC.

**ADAPTOR**

**GATEWAY ADAPTOR**
- IXGW-GW

**FUNCTIONS**

- Cooperation with mobile application (Android/OS)
- Others
  - Up to 8 mobile devices can be registered with each unit (Residential Unit / Commercial Unit / Guard Unit)

**LIFT CONTROL ADAPTOR**
- IXGW-LC

**SMARTPHONE APPLICATION FUNCTION**

- Answer and communication
  - Answer a call from a station and communicate with it.
- Monitoring
  - Monitor video and audio from the Entrance station.
- Audio and video recording function
  - Automatic recording of audio and video
  - Manual recording of audio and video
  - Others
  - Unlock a door: Unlock an electric lock while receiving an incoming call, during communication, or while monitoring.
  - Unlocking a door: Unlock a door when triggered.
  - Unlocking a door: Unlock a door in a common area.
  - Unlocking a door: Unlock a door in a common area / Door station / network camera in a common area.

**UNIT DIMENSIONS**