# AIPHONE

# IX System

## Video Door Station
## (IX-DA, IX-DB)
## Audio Only Door Station
## (IX-BA, IX-BB)

## Operation Manual
### Software version 7.00 or later

Video Door Station                Audio Only Door Station

●Read this "Operation Manual" prior to usage to ensure safe
  and correct operation.

●Keep this in a safe place for future reference.

# Precautions

This symbol is intended to alert the user to cautions (including warnings and cautions).

This symbol is intended to alert the user to prohibited actions.

This symbol is intended to alert the user to actions that are forced or instructed.

## ⚠ Warning  Negligence could result in death or serious injury.

**If there is smoke, abnormal odor, abnormal sound, or if the station is damaged, immediately disconnect the LAN cable and power from the station.**

This may result in fire or electrical shock.

**Do not dismantle or alter the unit.**

Dismantling or alteration

Fire or electric shock could result.

**High voltage is present internally. Do not open the case.**

Electric shock could result.

**Keep the station away from flammable materials.**

If this ha0ppens, remove the LAN cable from the station. This may result in fire or electrical shock.

**Keep the station away from liquid.**

If this happens, remove the LAN cable from the station. This may result in fire or electrical shock.

## ⚠ Caution  Negligence could result in injury to people or damage to property.

**Do not put anything on the unit or cover the unit with cloth, etc.**

Fire or unit trouble could result.

**If there is smoke, abnormal odor, abnormal sound, or if the station is damaged, immediately disconnect the LAN cable and power from the station.**

This may result in fire or electrical shock.

# Operation precautions

## General considerations

1.  Keep the unit more than 1m (3.3') away from radio or TV set.
2.  If the unit is down or does not operate properly, unplug the power supply or turn off the POWER switches.
3.  The unit case may become a warm with use, but this is not a unit malfunction.
4.  If you enable "Second Video Encoder" (→ page 20), the unit will continue to output video. When this happens, the unit case may become warm but this is not a unit malfunction.
5.  If it is used close to a cellular phone, the unit may malfunction.
6.  The unit turns inoperative during power failure.
7.  In areas where broadcasting station antennas are close by, the intercom system may be affected by radio frequency interference.
8.  During communication, If you stand too far away, it may be difficult for the other person to hear the communication.
9.  If there are loud noises around the unit (such as music playing or children crying), the sound may break up and be difficult to hear.
10. During communication, if you speak before the other person has finished talking, your voice may not come through clearly. Communication will proceed smoothly if you wait until the other person has finished before speaking.
11. During monitoring, the noise cut function does not work for making outside sounds easy to hear, so the noise may be heard louder than during communication.
12. This product, being a control unit of door release, should not be used as a crime prevention device.
13. The discrimination between day and night is performed automatically by the door station. Though the discrimination result may vary depending on the installation environment, it is not a malfunction.
14. Due to the environmental sound around the unit, it may hinder smooth communication, but this is not a malfunction.
15. At night, due to reduced lighting on the object, the monitor sees more noise and the face becomes more difficult to see, but this is not malfunction.
16. At a gate or porch illuminated by a fluorescent lamp, the picture may vary, but this is not a malfunction.
17. The outline of video images displayed by video door station may differ from that of the actual person(s) or background, but this is not a malfunction.
18. If the surface of a video door station freezes during wintertime, the picture may become difficult to see or the call button (including the call button of audio door station) may not move, but this is not a malfunction.
19. Warm-color lighting shining on the video door station may change the tint of the picture on the monitor.
20. When using fluorescent lights to illuminate the screen its colors may periodically change (color rolling), but this is not a malfunction.
21. When outside temperature lowers sharply after rainfall, etc., the inside of the camera may fog up slightly, causing a blurry picture, but this is not a malfunction. Normal operation will be restored when moisture evaporates.
22. When the unit's screen is illuminated with strong light, the image looks white or silhouetted. But this is not a unit trouble.
23. Aiphone assumes no responsibility for corruption of saved information (such as changes to or deletion of saved information). Please be aware of this in advance.

## Notes on using this system

1. Depending on the network environment and computer, it may not be useable.
2. You need to set the ID/password to access the web server when changing the system settings or doing the system maintenance. The system administrator must keep the ID/password without fail.
3. The ID/Password to access the web server for setting the system is the customer's responsibility. Make sure you set a password that cannot be easily guessed by a third party. We recommend that you change the ID/Password on a regular basis.
4. You may not be able to operate stations while updating the System settings by using a PC.
5. Video images and/or sounds may be interrupted depending on the communication status.
6. If there is an error in the setting of the corresponding station, calls will not work properly.
7. If you are experiencing difficulties in the use of the system, please check our website at http://www.aiphone.net/.

## Notice

1. Aiphone assume no responsibility for damages as a result of delayed or unusable services, which were 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. Aiphone is not to be held responsible for any damages resulting from the information being leaked or tampered with or due to interception, unauthorized access, or other reasons along the communication path.
3. We will under no conditions be liable for damage that occurs due to the inability to communicate due to malfunctions, problems, or operational errors in this product.
4. We will under no conditions be 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 images and illustrations depicted in this manual may differ from the actual ones.
7. Please note that this manual may be revised or changed without prior notice.
8. Please note that product specifications may be changed for the sake of improvement without prior notice.
9. 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 security failures.
10. 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.
11. This system is not intended for preventing physical injury, accidents caused by disasters and property damage.
12. Please receive and retain all configuration data from the supplier. If you lose the configuration data, there are cases where maintenance and after-sales service calls may incur additional setup fees.
13. Some countries have local restrictions on connecting to a PBX. Please refer to our website to check the countries where PBX connection is allowed. https://www.aiphone.net/support/software-documents/ix/documents.html
14. Due to the future required changes to network communication functionality etc. may not be possible to respond by updating the firmware of the station and it may not operate properly.

# Contents ◼

# Part Names

## Video Door Station IX-DA, IX-DB

Call indicator
(orange)

Communication
indicator
(green)

Status indicator
(red)

Camera

Microphone

Speaker

Call button

**LED for night illumination**
Pressing the [Call] button at night will turn the light ON, and when the communication ends the light will turn back OFF. The light will also turn ON when being monitored by the Master Station.
*There may be times when the light will not turn ON due to the settings.

**Drain holes (4)**
These holes are intended for water to pass through, do NOT obstruct them.

## Audio Only Door Station IX-BA, IX-BB

Call indicator
(orange)

Communication
indicator
(green)

Status indicator
(red)

Microphone

Speaker

Call button

**Drain holes (4)**
These holes are intended for water to pass through, do NOT obstruct them.
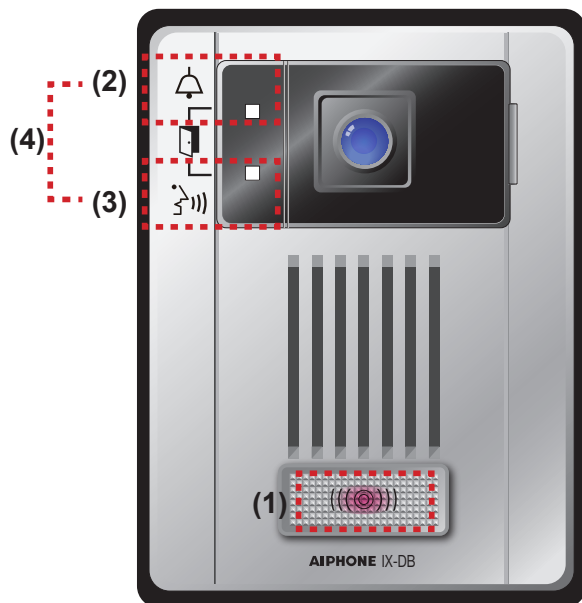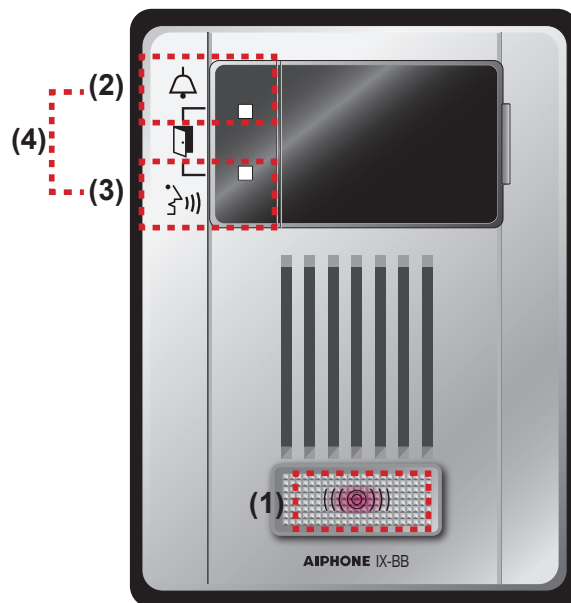
In this document, the Video Door Station and the Audio Only Door Station are referred to collectively as the "Door Station."

# Indicators

### Video Door Station IX-DA, IX-DB



### Audio Only Door Station IX-BA, IX-BB



: Light ON    : Light OFF

| Number | Name | Status (Pattern) | | Description |
|---|---|---|---|---|
| (1) | Status indicator | Red flashing | Normal flashing<br> 0.75 sec →  0.75 sec | Booting |
| | | | Fast flashing<br> 0.25 sec →  0.25 sec | Device error |
| | | | Long interval flashing<br> 0.5 sec →  4 sec | Communication failure |
| | | | Long irregular flashing<br> 1 sec →  0.25 sec →  0.25 sec →  0.25 sec →  0.25 sec →  0.25 sec | Firmware version upgrading |
| | | | Short irregular flashing<br> 1 sec →  0.25 sec →  0.25 sec →  0.25 sec | Initializing |
| | | Red light | | Standby |
| | | Red flashing | Slow flashing<br> 1 sec →  1 sec<br>Repeat 3 times, then Light ON | Calling destination busy |
| (2) | Call indicator | Orange flashing | Fast flashing<br> 0.25 sec →  0.25 sec | Outgoing calling |
| (3) | Communication indicator | Green light | | In communication |
| (4) | Call indicator + Communication indicator | Orange flashing + Green flashing | Normal flashing<br> 0.5 sec →  0.5 sec | Door releasing |

# Place a call

**1** Press the [Call] button

- The ringback tone will play from the speaker.
- The call indicator will flash.
- Video from the camera is displayed at the call destination. (Video Door Station only)
- The LED illumination will turn ON in low ambient lighting. (Video Door Station only)

Tone
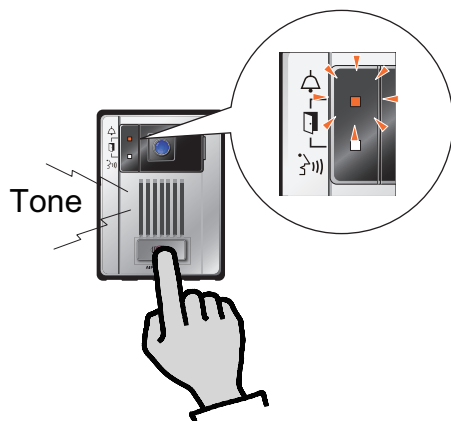
**2** Speak when the other party answers
- The call indicator will turn OFF, and the communication indicator will turn ON.
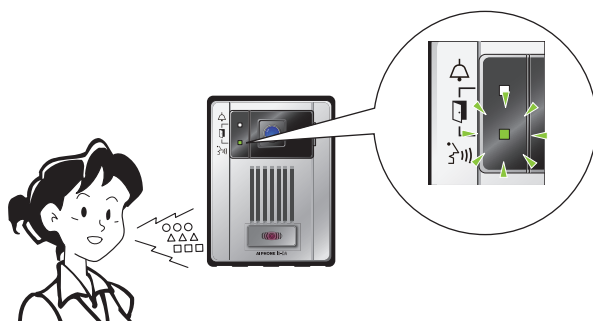
### Notice

- The call is placed using the priority that was set during programming.
- If the line is busy or there is no answer, try call again.
- The call ring timer and the ringback tone count may vary depending on the settings.
- Depending on the settings, communication sounds may play from separately installed speakers.
- Depending on the settings, the electric locks and auto doors may cause sounds when unlocking.

# Use an external device to place a call

Use an external device (sensor, call button, etc.) to place a call to a pre-determined location.

Call button, etc. — Press button — Door Station — Outgoing call

## 1 Control the external device

• The ringback tone will play from the device speaker.
• The call indicator on this device will flash.
• Video from the camera is displayed to the call destination. (Video Door Station only)
• The LED illumination will turn ON when in low ambient lighting. (Video Door Station only)

Press the call button

Tone
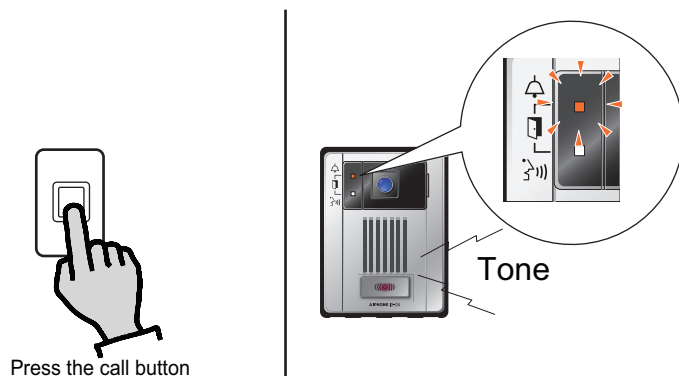
## 2 Speak when the other party answers

• The call indicator on the device will turn OFF, and the communication indicator will turn ON.
• Communication on this device is performed using the speaker and microphone.
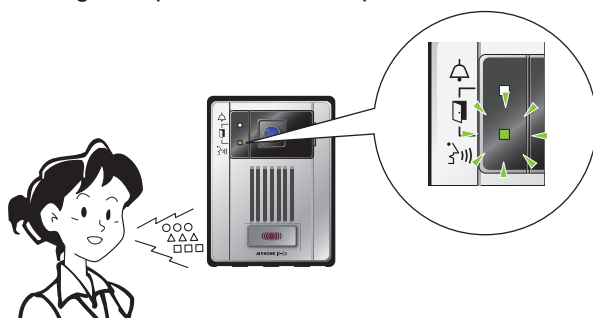
### 👉 Notice

• The call is placed using the priority that was set during programming.
• If the line is busy or there is no answer, try call again.
• The call ring timer, the ringback tone, and ringback tone count may vary depending on the settings.
• Depending on the settings, communication sounds may play from separately installed speakers.
• Depending on the settings, the electric locks and auto doors may cause sounds when unlocking.

# Receive a page

Paging will be heard after the paging pretone.

**1**  The paging pretone will ring, then paging will begin
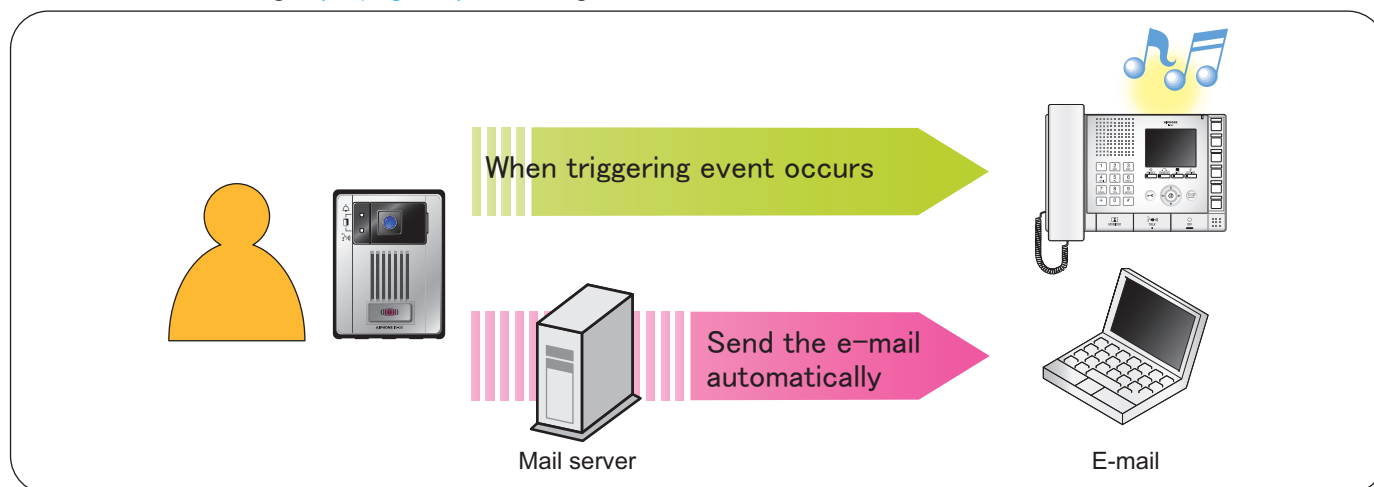
Tone

**2**  Paging complete

---

**Notice**

- If the [Call] button is pressed while receiving a page, the page may be canceled and the call placed (depends on settings).
- The paging pretone ring is dependent on the settings of the system.
- Depending on the settings, the paging pretone and the paging audio may play from separately installed speakers.

# Send an e-mail

An e-mail can be sent to pre-registered e-mail addresses.

Refer to "E-Mail Settings" (→ page 27) for settings related to e-mail.



| When triggering event occurs |
| Send the e-mail automatically |

Mail server                                    E-mail

Example of sending e-mail:

When performing an outgoing call from this device (Station Number: 003, Station Name: Audio Only Door Station 3, Location: Receptionist) using the priority "Urgent."

| | |
|---|---|
| **Source** | xxxx@xxxxx.com |
| **Time and date sent** | 11/20/2014 7:22 |
| **Recipient CC** | xxxx@xxxxx.com |
| **Subject** | An outgoing call was made using the priority "Urgent." |
| Call Placed [20141120 07:21:40].<br><br>Source Station Number: [003]<br>Source Station Name: [Door Station 3]<br>Source Station Location: [Receptionist]<br>Call Priority: [Urgent]<br>Destination group number: [  ]<br>Destination Group Name: [Call Button] | |

👉 **Notice**

- "UTF-8" encoding is used.  Characters may display incorrectly depending on the e-mail client.
- If the call is placed from a Video Door Station, the e-mail will include an image (JPEG).

Connect to the same network as the device and manage the settings from PC web browser.
Settings using a PC web browser cannot be performed when the administrator sets the Expanded System to "Enable."

## System requirements

The PC should meet the following requirements to be capable of configuring the system. For the latest information on system requirements, please visit our website (https://www.aiphone.net/).
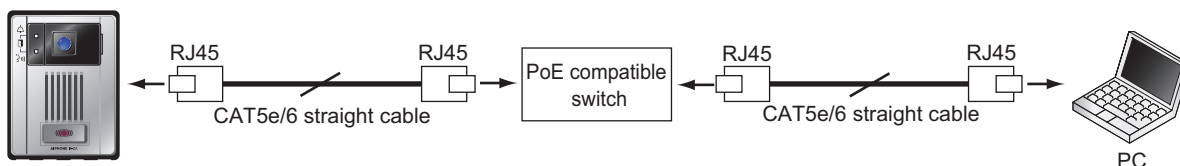
| Network | Ethernet (10 BASE-T, 100 BASE-TX) |
|---|---|
| Web browser | Microsoft Edge / Internet Explorer 10.0, 11.0 (TLS1.2 enabled) |

## Connecting to a PC

Connect the station with a PC using PoE compatible switch.

• Use CAT5e/6 straight cable to connect the devices through LAN port.

Door Station



RJ45    RJ45    PoE compatible switch    RJ45    RJ45

CAT5e/6 straight cable     CAT5e/6 straight cable

PC

## Login to this device

**1** Start the PC and open a web browser

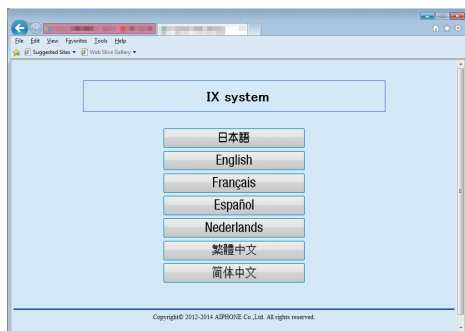**2** Enter the address below into the web browser address bar

https://(IP Address of this device)/webset.cgi?login

When the IP address is IPv6, put brackets ([ ]) around it.

Display the login screen.
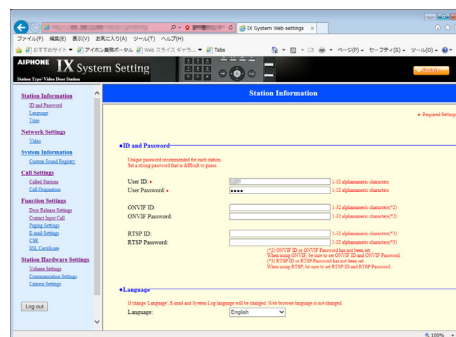
**3** Select the language

Language for displaying contents on the Web settings is changed.



Display the login screen of the selected language.

**4** Enter the ID and password, and click [ Login ]

Contact your system administrator for ID and password.



Display the setting screen.

### Notice

• Cannot log in when the Expanded System is set to "Enable."

• Be sure to type in "https://" to login.

• Do not login multiple times using multiple browsers at one time on the same PC.

• The initial IP address and Subnet mask values are below.

IP address: 192.168.1.160

Subnet mask: 255.255.255.0

• Contact the system administrator if the IP address or subnet mask for the device is not known.

## Setting window

When accessing the web server of the station, the following setting window will appear. The station can be configured in this window.

• Video Door Station screen shots are shown in this manual.

• Depending on the PC and OS being used, the window may be slightly different.

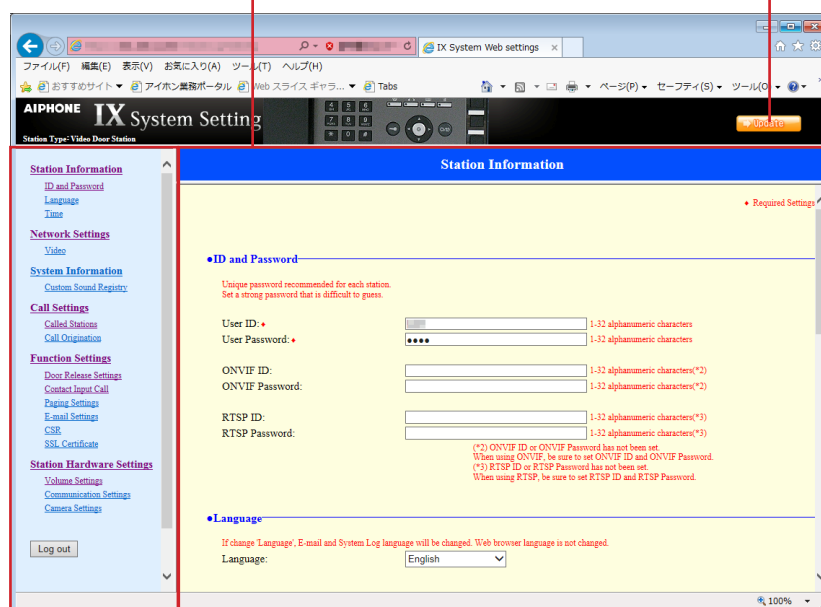• After configuring the station, confirm its operation by referring to the "Operation Manual."

<Setting window sample>

**Setting window:**
This indicates the setting window of the title selected.

**Update button**
Click this button to update the station settings.



**Setting menu:**
Shows all items that can be configured. Click the title to be configured and appropriate setting window will display.

## How to configure

**1** Click the title to configure in the settings menu

The setting window for that particular title will be shown.

**2** Configure each setting item

**3** When done making changes, click ⏵Update to update the settings

• When the settings are updated, "Setting Updated." will be shown at the top left corner in the window. If this fails, an error message will be shown.

• To cancel the changes, click another title in the setting menu.

**4** Repeat steps **1** to **3** for other titles

To log out of the Web server of this station, click Log out in the settings menu.

### Notice

• To end the setting session, do not use ✕. Use Log out to end.

• If the setting window switch to another without clicking ⏵Update, the settings will not be saved.

• When no activity is detected for one hour, the connection will be automatically terminated.

13

## List of settings

| Entry | Reference page |
|---|---|
| SSL Certificate | |
|   Server Certificate | page 30 |
|   CA Certificate | page 30 |
| **Station Hardware Settings** | |
| Volume Settings | |
|   Volume Settings | |
|     Transmit Volume | page 31 |
|     Receive Volume | page 31 |
|     Ringtone Volume | page 31 |
| Communication Settings | |
|     Talk Timeout [sec] ♦ | page 31 |
| Camera Settings (Video Door Station only) | |
|   Environmental Settings | |
|     Backlight Compensation Adjustment | page 32 |
|     Low Light Sensitivity Adjustment | page 32 |
|   Color Settings | |
|     Brightness ♦ | page 32 |
|     Contrast ♦ | page 32 |
|     Color ♦ | page 32 |
|   LED Illumination Control | |
|     During Call / Communication | page 32 |
|     While Monitored | page 32 |

# Station Information

## ID and Password

**•ID and Password**

Unique password recommended for each station.
Set a strong password that is difficult to guess.

| User ID: ♦ | [        ] | 1-32 alphanumeric characters |
| User Password: ♦ | [••••    ] | 1-32 alphanumeric characters |
| ONVIF ID: | [        ] | 1-32 alphanumeric characters(*2) |
| ONVIF Password: | [        ] | 1-32 alphanumeric characters(*2) |
| RTSP ID: | [        ] | 1-32 alphanumeric characters(*3) |
| RTSP Password: | [        ] | 1-32 alphanumeric characters(*3) |

(*2) ONVIF ID or ONVIF Password has not been set.
When using ONVIF, be sure to set ONVIF ID and ONVIF Password.
(*3) RTSP ID or RTSP Password has not been set.
When using RTSP, be sure to set RTSP ID and RTSP Password.

♦ This is a required setting.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| User ID ♦ | Set the ID for login to this device. | 1-32 alphanumeric characters "root" cannot be set. | Contact your system administrator. |
| User Password ♦ | Set the password for login to this device. | 1-32 alphanumeric characters | Contact your system administrator. |
| ONVIF ID (Video Door Station only) | Set the ID to access this station from 3rd party products using ONVIF. | 1-32 alphanumeric characters | - |
| ONVIF Password (Video Door Station only) | Set the Password to access this station from 3rd party products using ONVIF. | 1-32 alphanumeric characters | - |
| RTSP ID | Set the ID to access this station from 3rd party products using RTSP. | 1-32 alphanumeric characters | - |
| RTSP Password | Set the Password to access this station from 3rd party products using RTSP. | 1-32 alphanumeric characters | - |

## ☞ Notice

- The ONVIF port number is "10080" and the RTSP port number is "554."
- Refer to "Viewing video from Door Station with 3rd party products (ONVIF) " for information on connecting Video Door Station with a 3rd party product.

## Language

●**Language**

If change 'Language', E-mail and System Log language will be changed. Web browser language is not changed.

Language: English ▼

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Language | Select the language for e-mail and system log language.<br>(Web browser language are not changed.) | • Japanese<br>• English<br>• French<br>• Spanish<br>• Dutch<br>• Traditional Chinese<br>• Simplified Chinese | English |

## Time



### ■ Time Zone

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Select time zone | Select the time zone to be used. | Select from 99 regions | GMT-08:00 Pacific Standard Time (U.S.), Tijuana |

### ■ Daylight Savings Time
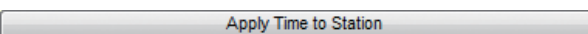
| Entry | Description | Settings | Default values |
|---|---|---|---|
| Enable automatic daylight savings time | Adjust the daylight saving time automatically to fit the region selected in "■ Select time zone." | • Yes<br>• No | No |
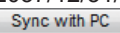
### ■ NTP

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Enable NTP | Enable NTP server to retrieve the time. Configuring NTP server is required separately if using an NTP server. Contact your system administrator. | • Yes<br>• No | No |

### ■ Date and Time

Pressing ➡ Update will not show date and time settings on this device.

Click [ Apply Time to Station ] to show it.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Time | Set the current time for the station. | 2012/1/1/00:00:00 - 2037/12/31/23:59:59<br>Sync with PC : Synchronized with the current time setting of the PC. | 2013/1/1/ 00:00:00 |

⚠ **Attention**

If the power is turned off for at least 30 minutes, the time and date will revert back to the default setting. If this happens, set the time and date again.For this reason, it is recommended to use NTP. (Only applicable if NTP is connected and set-up with IX system.)

# Network settings (Video Door Station only)

## Video



### ■ SIP Channel

Configure video settings when placing a call between stations, during communication, and when calling a VoIP Phone.

♦ This is a required setting.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Coding System | Select the coding system for the video. | • H.264 / AVC<br>• Motion-JPEG | H.264 / AVC |
| Resolution | Select the resolution for the video. | • 640x480 (VGA)<br>• 320x240 (QVGA) | 320x240 (QVGA) |
| Frame Rate [fps] | Select the frame rate. | 1, 3, 5, 7.5, 10. 15, 20, 30 | 15 |
| Select Profile [H.264 / AVC] | Select the profile for H.264/AVC. | • Baseline<br>• Main<br>• High | Main |
| I-picture interval [H.264 / AVC] ♦ | Set the interval for transmitting pictures with H.264/AVC. | 1-100 | 15 |
| Bit rate [kbps] [H.264 / AVC] | Select the bit rate for H.264/AVC. | 64, 128, 256, 384, 512. 768, 1024, 2048 | 1024 |
| Select Quality [Motion-JPEG] | Select the image quality of Motion-JPEG. | 1 (low) through 10 (high) | 6 |

### ⚠ Attention

- When sending video to an VoIP Phone, configure to the same video settings as the VoIP Phone.
- Video is not sent when making an outgoing call to a VoIP Phone.
- After approximately 10 minutes following the start of an outgoing call, the frame Rate (fps) will automatically reduce to "5".
- The frame rate may be lower than the set value depending on the video being sent, the number of recipient stations, and the network environment.
- Make sure that the profiles of the stations of the IX system have the same settings.

ONVIF Transmit Channel
- Second Video Encoder: ⦿ Enable  ○ Disable
- Coding System: H.264 / AVC
- Resolution: 320x240 (QVGA)
- Frame Rate [fps]: 15
- Select Profile [H.264 / AVC]: Main
- I-picture interval [H.264 / AVC]: ♦ 15    1-100
- Bit rate [kbps] [H.264 / AVC]: 1024
- Select Quality [Motion-JPEG]: 6

## ■ ONVIF Transmit Channel

Set when transmitting video using ONVIF.

These settings may be changed by ONVIF-compliant 3rd party products, if utilized.  Refer to the manual of the 3rd party product to be used.

♦ This is a required setting.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Second Video Encoder | Enable / Disable the dual stream function.<br>Set to "Enable" when transmitting video through ONVIF. | • Enable<br>• Disable | Enable |
| Coding System | Select the coding system for the video. | • H.264 / AVC<br>• Motion-JPEG | H.264 / AVC |
| Resolution | Select the resolution for the video. | • 640x480 (VGA)<br>• 320x240 (QVGA) | 320x240 (QVGA) |
| Frame Rate [fps] | Select the frame rate. | 1, 3, 5, 7.5, 10. 15, 20, 30 | 15 |
| Select Profile [H.264 / AVC] | Select the profile for H.264/AVC. | • Baseline<br>• Main<br>• High | Main |
| I-picture interval [H.264 / AVC] ♦ | Set the interval for transmitting pictures with H.264/AVC. | 1-100 | 15 |
| Bit rate [kbps] [H.264 / AVC] | Select the bit rate for H.264/AVC. | 64, 128, 256, 384, 512. 768, 1024, 2048 | 1024 |
| Select Quality [Motion-JPEG] | Select the image quality of Motion-JPEG. | 1 (low) through 10 (high) | 6 |

⚠ **Attention**

- The frame rate may be lower than the set value depending on the video being sent, the number of recipient stations, and the network environment.

# System Information

## Custom Sound Registry

Register a maximum of 100 audio files to be used for call acknowledged tones (total length should not exceed approximately 200 seconds / approximately 3.2 MB).

●Supported file format
• File format: .wav
• Audio sample size: 16 bits
• Audio sample rate: 8 kHz
• Number of channels: One (mono)

●**Custom Sound Registry**

| # | Sound Name | Browse for .wav file (Less than 200 sec, cumulative) | Delete |
|---|---|---|---|
| 1 | | Browse... | ☐ |
| 2 | | Browse... | ☐ |
| 3 | | Browse... | ☐ |
| 4 | | Browse... | ☐ |
| 5 | | Browse... | ☐ |
| 6 | | Browse... | ☐ |
| 7 | | Browse... | ☐ |
| 8 | | Browse... | ☐ |
| 9 | | Browse... | ☐ |
| 10 | | Browse... | ☐ |
| 11 | | Browse... | ☐ |
| 12 | | Browse... | ☐ |
| 13 | | Browse... | ☐ |
| 14 | | Browse... | ☐ |
| 15 | | Browse... | ☐ |

### ■ How to upload

1) Click Browse... .

2) Select the audio file, click Open .

3) Click Update .

### 👉 Notice

• The file name is automatically entered when the file is uploaded.
• If you are using the acknowledged tone, provide a silence period for the sound source.
• Sample files of custom sounds are provided on our website (https://www.aiphone.net/support/) for download and use as audio sources.

### ■ How to delete

1) Check the ☑ "Delete" box on the audio file to delete.

2) To delete click Update .

# Call Settings

## Called Stations

●Called Stations

**Priority Setting**

Priority: [Normal ▼]

### ■ Priority Setting

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Priority | Set the priority of the call when the Call button is pressed. | • Normal<br>• Priority<br>• Urgent | Normal |

## Call Origination

●Call Origination

**Call Acknowledged Settings**

| | | |
|---|---|---|
| Ringback Tone: | [Call pattern 1 ▼] | |
| Call Timeout [sec]:♦ | [10-600 sec ▼] [60] sec | 10-600 sec, Infinite (No timeout) |
| Ringback Tone Count [time(s)]: | [Infinite ▼] | 1-20 time(s), Infinite (Keep ringing) |
| Busy Tone: | [Busy tone ▼] | |
| Error Tone (Call failed): | [Error sound ▼] | |

### ■ Call Acknowledged Settings

♦This is a required setting.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Ringback Tone | Select the ringback tone (tone heard at calling station when a call is placed). | • Call pattern 1<br>• Call pattern 2<br>• Call pattern 3<br>• Call pattern 4<br>• Call pattern 5<br>• Call pattern 6<br>• Tremolo sound<br>• Busy tone<br>• On-hold tone<br>• Operation sound<br>• Error sound<br>• Select from the sound source registered in "Custom Sound Registry." | Call pattern 1 |
| Call Timeout [sec] ♦ | Set the call ring timer. | • 10-600 sec (by 1 sec)<br>• Infinite: Ringing continues until the recipient responds | 10-600 sec (60 sec) |

## Call Origination (continued)

●Call Origination

**Call Acknowledged Settings**

| | |
|---|---|
| Ringback Tone: | Call pattern 1 ▾ |
| Call Timeout [sec]:♦ | 10-600 sec ▾  60  sec    10-600 sec, Infinite (No timeout) |
| Ringback Tone Count [time(s)]: | Infinite ▾    1-20 time(s), Infinite (Keep ringing) |
| Busy Tone: | Busy tone ▾ |
| Error Tone (Call failed): | Error sound ▾ |

## ■ Call Acknowledged Settings

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Ringback Tone Count [time(s)] | Set the count of ringback tone. | • 1-20 times<br>• Infinite: Ringback tone continues until the recipient responds. | Infinite |
| Busy Tone | Select the tone that will be heard at the calling station when the called station is busy. | • Call pattern 1<br>• Call pattern 2<br>• Call pattern 3<br>• Call pattern 4<br>• Call pattern 5<br>• Call pattern 6<br>• Tremolo sound<br>• Busy tone<br>• On-hold tone<br>• Operation sound<br>• Error sound<br>• Select from the sound source registered in "Custom Sound Registry." | Busy tone |
| Error Tone (Call failed) | Select the tone that will be heard when a call fails. | • Call pattern 1<br>• Call pattern 2<br>• Call pattern 3<br>• Call pattern 4<br>• Call pattern 5<br>• Call pattern 6<br>• Tremolo sound<br>• Busy tone<br>• On-hold tone<br>• Operation sound<br>• Error sound<br>• Select from the sound source registered in "Custom Sound Registry." | Error sound |

# Function Settings

## Door Release Settings

⚠ **Attention**

If the door release settings are changed, the release feature may no longer work.

If the settings are changed, contact the system administrator.

●**Door Release Settings**

**Door Release Tone**

Door Release Operating Tone:  Operation sound ▼

**Door Release Authorization**

Authentication Key:  [                    ] 1-20 digits

### ■ Door Release Tone

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Door Release Operating Tone | Set the tone that will be heard when the door is released. | • None<br>• Call pattern 1<br>• Call pattern 2<br>• Call pattern 3<br>• Call pattern 4<br>• Call pattern 5<br>• Call pattern 6<br>• Tremolo sound<br>• Busy tone<br>• On-hold tone<br>• Operation sound<br>• Error sound<br>• Select from the sound source registered in "Custom Sound Registry." | Operation sound |

### ■ Door Release Authorization

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Authentication Key | Set the authentication key to allow control of the master station's door release output.<br><br>Authentication key: When this matches the key of the other master station, control will be permitted. | 1-20 digits | - |

24

## Contact Input Call

●Contact Input Call

**Door Station Call Group Assignment**

| Input Number | Group Number | Priority |
|---|---|---|
| 1 | 01 ▼ | Normal ▼ |

**Call Acknowledged Settings**

Ringback Tone: Call pattern 2 ▼
Call Timeout [sec]:♦ 10-600 sec ▼ 60 sec *10-600 sec, Infinite (No timeout)*
Ringback Tone Count [time(s)]: Infinite ▼ *1-20 time(s), Infinite (Keep ringing)*

### ■ Door Station Call Group Assignment

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Group Number | Set the group number to be called when the contact input is triggered. Contact your system administrator regarding groups. | 01 to 09 | 01 |
| Priority | Set the priority of the call when the contact input is triggered. | • Normal<br>• Priority<br>• Urgent | Normal |

### ■ Call Acknowledged Settings

♦ This is a required setting.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Ringback Tone | Select the ringback tone when the contact input is triggered. | • Call pattern 1<br>• Call pattern 2<br>• Call pattern 3<br>• Call pattern 4<br>• Call pattern 5<br>• Call pattern 6<br>• Tremolo sound<br>• Busy tone<br>• On-hold tone<br>• Operation sound<br>• Error sound<br>• Select from the sound source registered in "Custom Sound Registry." | Call pattern 2 |
| Call Timeout [sec] ♦ | Set the call ring timer when the contact input is triggered. | • 10-600 sec (by 1 sec)<br>• Infinite: Ringing continues until the recipient responds | 10-600 sec (60 sec) |
| Ringback Tone Count [time(s)] | Set the count of ringback tone. | • 1-20 times<br>• Infinite: Ringing continues until the recipient responds | Infinite |

25

## Paging Settings

●Paging Settings

Paging Pretone Setting

Pretone:        ⦿ ON ○ OFF

### ■ Paging Pretone Setting

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Pretone | Choose to enable the pretone function when the station is paged. | • ON<br>• OFF | ON |

## E-Mail Settings

### ⚠ Attention

The server must be set up to allow e-mail notifications to be sent.

If e-mail is not being received, contact network administrator to review the settings and confirm that e-mail is being sent.

**●E-mail Settings**

**E-mail Addresses**

Destination 1: [                    ] 1-64 alphanumeric characters
Destination 2: [                    ] 1-64 alphanumeric characters
Destination 3: [                    ] 1-64 alphanumeric characters

**E-mail Event Trigger**

| Event | Destination Address | | |
|---|---|---|---|
| | (1) | (2) | (3) |
| Normal call | Disable | Disable | Disable |
| Priority call | Disable | Disable | Disable |
| Urgent call | Disable | Disable | Disable |
| Call Failed | Disable | Disable | Disable |
| Error Occurred | Disable | Disable | Disable |
| Station Restart | Disable | Disable | Disable |
| Periodic Log Transmission | Disable | Disable | Disable |
| Periodic Log Transmit Time | 00 Hour 00 Minute | 00 Hour 00 Minute | 00 Hour 00 Minute |
| Periodic Log Transmit Interval | 1 day | 1 day | 1 day |

[UTF-8] used for 'Subject' encoding; the subject may be garbled depending on mail server.

| Event | Subject Text<br>1-64 alphanumeric characters |
|---|---|
| Normal call | |
| Priority call | |
| Urgent call | |
| Call Failed | |
| Error Occurred | |
| Station Restart | |
| Periodic Log Transmission | |

**Additional Settings**

[UTF-8] used for 'Attachment Image Filename' encoding; the filename may be garbled depending on mail server.

Attach Image:  ○ Enable ◉ Disable   If set to [Enable], an image will be attached when sending "Normal Call", "Priority Call", or "Urgent Call".

Attachment Image Filename: [                    ] 1-64 alphanumeric characters

■ **E-mail Addresses**

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Destination 1 to 3 | Set the e-mail address. | 1-64 alphanumeric characters | - |

■ **E-mail Event Trigger**
Set up which event triggers will send an e-mail message for each address.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Normal call | An e-mail message will be sent when a normal call is made. | • Enable<br>• Disable | Disable |
| Priority call | An e-mail message will be sent when a priority call is made. | • Enable<br>• Disable | Disable |
| Urgent call | An e-mail message will be sent when an urgent call is made. | • Enable<br>• Disable | Disable |
| Call Failed | An e-mail message will be sent when a call fails. | • Enable<br>• Disable | Disable |
| Error Occurred | An e-mail message will be sent when a data communication error occurs. | • Enable<br>• Disable | Disable |
| Station Restart | An e-mail message will be sent when the station is restarted. | • Enable<br>• Disable | Disable |
| Periodic Log Transmission | Periodic Log will be sent via e-mail. | • Enable<br>• Disable | Disable |
| Periodic Log Transmit Time | Set time of day to send the log via e-mail. | From 00:00 to 23:59 | 00:00 |
| Periodic Log Transmit Interval | Set how often the log will be sent via e-mail. | Every 1-7 days | 1 day |

Configure the subject of the e-mail message for each e-mail event trigger.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Subject Text | Set the subject text of e-mail message for each trigger. | 1-64 alphanumeric characters | - |

■ **Additional Settings (Video Door Station only)**

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Attach Image | Using the "E-mail Event Trigger," configure the settings for attaching a still image taken by the Video Door Station camera to an e-mail, sent when making a normal call, priority call, or urgent call. | • Enable<br>• Disable | Disable |
| Attachment Image Filename | Set the name of the image file that was attached. | 1-64 alphanumeric characters | - |

⚠ **Attention**

UTF-8 encoding is used for the "Subject Text" and "Attachment Image Filename." Depending on the e-mail client, the characters may appear incorrectly.

## CSR

Generate a signature request (CSR) to submit when requesting a server certificate from a certificate authority (CA).

```
●CSR
    Country (*)                    [                    ]    The two-letter code
    State/County/Region (*)        [                    ]    1-128 alphanumeric characters
    City/Locality                  [                    ]    1-128 alphanumeric characters
    Organization (*)               [                    ]    1-64 alphanumeric characters
    Organizational Unit            [                    ]    1-64 alphanumeric characters
    Common Name                    [192.168.1.160       ]    1-64 alphanumeric characters
    (*)Required for CSR.
                            [    Create    ]
```

How to generate a signature request (CSR)

**1** Enter each item.

**2** Click [ Create ].

**3** Specify the save location and store your created file in it.
• The default file name is "CSR." Change the file name if it is necessary.

### ■ Country

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Country | Set the country name. | The two letter abbreviation | - |

### ■ State/County/Region

| Entry | Description | Settings | Default values |
|---|---|---|---|
| State/County/Region | Set the prefecture name. | 1-128 alphanumeric characters | - |

### ■ City/Locality

| Entry | Description | Settings | Default values |
|---|---|---|---|
| City/Locality | Set the city/ward/town/village name. | 1-128 alphanumeric characters | - |

### ■ Organization

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Organization | Set the organization name. | 1-64 alphanumeric characters | - |

### ■ Organizational Unit
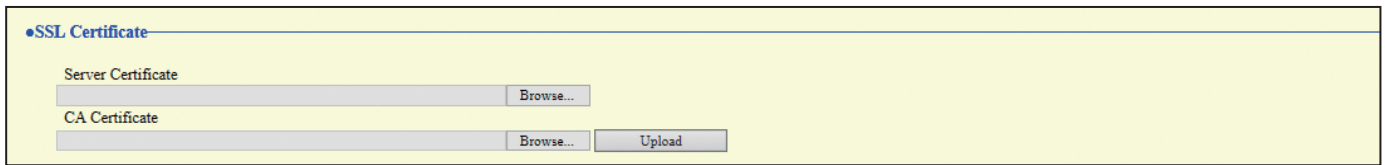
| Entry | Description | Settings | Default values |
|---|---|---|---|
| Organizational Unit | Set the division name. | 1-64 alphanumeric characters | - |

### ■ Common Name

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Common Name | Set the common name. | 1-64 alphanumeric characters | The station's IP address is listed |

## SSL Certificate

Upload the Server Certificate received from the Certificate Authority (CA) as well as the CA certificate.

```
●SSL Certificate
    Server Certificate
    [                                    ]  [ Browse... ]
    CA Certificate
    [                                    ]  [ Browse... ]  [ Upload ]
```

## ⚠ Attention

• When uploading the SSL certificate, restart the station. This may take approx. 10 minutes in total. The station will not function until complete.

How to upload an SSL Certificate

**1** Click [ Browse... ] in the Server Certificate to select a file.

**2** Click [ Browse... ] in the CA Certificate (if required) to select a file.

**3** Click [ Upload ] to upload the server certificate and CA certificate.
• When uploading is completed, the station will restart.

# Station Hardware Settings

## Volume Settings



### ■ Volume Settings

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Transmit Volume | Set the transmit volume during communication or monitoring. | 1-10 | 10 |
| Receive Volume | Set the receive volume during communication or paging. The volume for ringback tone will be changed as well | 1-10 | 10 |
| Ringtone Volume | Set the tone volume (ringtone, pretone, etc.) | 0: Mute, 1-10 | 10 |
| VoIP Phone Volume Adjustment | Select the volume adjustment between VoIP Phone and IX stations. | • -12dB from VoIP, +12dB to VoIP<br>• -6dB from VoIP, +6dB to VoIP<br>• No Adjustment<br>• +6dB from VoIP, -6dB to VoIP<br>• +12dB from VoIP, -12dB to VoIP | No Adjustment |

## Communication Settings



♦ This is a required setting.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Talk Timeout [sec] ♦ | Set the talk timeout. | • 30-600 sec (by 1 sec)<br>• Infinite: Communication continues until the communication is terminated. | 60 sec |

31

## Camera Settings (Video Door Station only)

```
•Camera Settings
  Environmental Settings
    Backlight Compensation Adjustment:     ○ Enable  ● Disable
    Low Light Sensitivity Adjustment:      ○ Enable  ● Disable

  Color Settings
    Brightness:♦      [50]      1-100
    Contrast:♦        [50]      1-100
    Color:♦           [50]      1-100

  LED Illumination Control
    During Call / Communication:    ● Enable  ○ Disable
    While Monitored:                ○ Enable  ● Disable
```

### ■ Environmental Settings

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Backlight Compensation Adjustment | During an outgoing call or monitoring, video with backlight compensation adjustment will be sent to the destination station. The adjustment can be removed through operation by the destination station. | • Enable<br>• Disable | Disable |
| Low Light Sensitivity Adjustment | Send an image that low light sensitivity compensation was performed to the other station, when an outgoing call is made or the station is being monitored and the area around the other station is dark (such as at night). The compensation can be removed on the other station. | • Enable<br>• Disable | Disable |

### ■ Color Settings

⚠ **Attention**

If these settings are changed while video is displayed, the changes will not be reflected until the video is accessed again.

♦ This is a required setting.

| Entry | Description | Settings | Default values |
|---|---|---|---|
| Brightness ♦ | Set the brightness of the picture. | 1 (dark) to 100 (bright) | 50 |
| Contrast ♦ | Set the contrast of the picture. | 1 (dull) to 100 (vivid) | 50 |
| Color ♦ | Set the color of the picture. | 1 (weak) to 100 (strong) | 50 |

### ■ LED Illumination Control

| Entry | Description | Settings | Default values |
|---|---|---|---|
| During Call / Communication | Activate LED illumination during communication when the ambient lighting is dark. | • Enable<br>• Disable | Enable |
| While Monitored | Activate LED illumination while being monitored when the ambient lighting is dark. | • Enable<br>• Disable | Disable |

# Viewing video from Door Station with 3rd party products (ONVIF)

Video Door Station supports the ONVIF interface standard "ONVIF profile S."

View video from Door Station camera with a 3rd party product supporting the ONVIF specification. (For products with confirmed interoperability, refer to our Web site " https://www.aiphone.net/. ")

## Notice

- Video from the Door Station camera cannot be viewed simultaneously by more than two products from other manufacturers.

## Configuring the station so video can be viewed with a product by another manufacturer

**1** Select "Enable" for "Second Video Encoder" (→ page 20)

## ! Attention

Set up "2.5.2. Video Encoder 2" (→ page 20) according to the specification of the product.

**2** Register Video Door Station on the product.
- Enter the following as required.
  - ONVIF ID: Configure in "ONVIF ID (Video Door Station only) (→ page 16)"
  - ONVIF Password: Configure in "ONVIF Password (Video Door Station only) (→ page 16)"
  - ONVIF port number: 10080
  - RTSP ID: Configure in "RTSP ID (→ page 16)"
  - RTSP Password : Configure in "RTSP Password (→ page 16)"
  - RTSP port number: 554
- For how to register, refer to the instruction manual of the product to be registered.

# Specifications

| Power | Power-over-Ethernet (IEEE 802.3af Class 0) |
|---|---|
| Consumption current | IX-DA: Standby 35mA, maximum 110mA, <br> IX-DB: Standby 35mA, maximum 80mA, <br> IX-BA: Standby 35mA, maximum 70mA, <br> IX-BB: Standby 35mA, maximum 60mA |
| Communication | Hands-free |
| Minimum illumination (Video Door Station only) | 5 lux |
| LAN | Ethernet (10BASE-T, 100BASE-TX) |
| Audio codec | G.711 |
| Video codec (Video Door Station only) | H.264 / AVC, Motion-JPEG |
| Protocol | IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, FTP, DHCP, NTP, DNS |
| Number of called stations | 20 stations |
| Operating temperature | -10 °C to +60 °C (+14 °F to +140°F) |
| Materials | Fire-retardant resin |
| Color | Hardware: flat black, Panel: silver |
| Size | H: 130 mm (5-1/8") , W: 97 mm (3-13/16") , D: 42 mm (1-11/16") |
| Mass | IX-DA: Approx. 280 g (0.62 lbs.), <br> IX-DB: Approx. 290 g (0.64 lbs.), <br> IX-BA: Approx. 270 g (0.60 lbs.), <br> IX-BB: Approx. 280 g (0.62 lbs.) |

# Maintenance

Clean the unit gently with a soft, dry cloth. If difficult to clean, dip a soft cloth in neutral detergent diluted with water, wring it out well, and then clean unit.

> ⚠ **Attention**
>
> Do not use chemicals such as benzene or paint thinner. You may damage the surface of the device, or cause discoloration.

# Technical Support

If problems occur during the use of the system, please visit our website https://www.aiphone.net/.

# Notice regarding software

Use of the software installed on this product has received direct or indirect authorization from third parties.

## (1)GPL/LGPL

This product includes software components subject to the GPL/LGPL.

Customers can obtain, modify, and re-distribute the source code of the software components according to the GPL/LGPL.

Please see the website below for how to obtain sequence GPL/LGPL of this source code.

http://www.aiphone.co.jp/data/software/source/gpl/download/ix/

------------------------------------ Hereafter referred to as the link ------------------------------------

Open source code

This product includes software components subject to the GPL/LGPL, and customers can obtain, modify, and re-distribute the source code of the software components according to the GPL/LGPL. In addition, you can find details on the GPL/LGPL through the following links.

http://www.gnu.org/licenses/old-licenses/gpl-2.0.html

http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

Please confirm the following contents when downloading.

> <<Please confirm>>
> ■According to GPL/LGPL, the source code of the software components is not guaranteed, including warranty on "merchantability" or "suitability for a particular purpose."
> ■The source code of the software components are according to the "status quo," and are provided based on the GPL/LGPL.
> ■Please understand that we cannot answer questions regarding the content of the source code of the software components.

## (2)OpenSSL License

Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgment:

   "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.

5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following acknowledgment:

   "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## (3)Original SSLeay License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

   "This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)"

   The word 'cryptographic' can be left out if the rouines from the library being used are not cryptographic related :-).
4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement:

   "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(4)this software is based in part on the work of the Independent JPEG Group.

(5)this software is based in part on the work of the FreeType Team.

# Warranty

Aiphone warrants its products to be free from defects of material and workmanship under normal use and service for a period of two years after delivery to the ultimate user and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty. Aiphone reserves unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty. This warranty shall not apply to any Aiphone product which has been subject to misuse, neglect, accident, power surge, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory. This warranty does not cover batteries or damage caused by batteries used in connection with the unit. This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone. This warranty is limited to the standard specifications listed in the operation manual. This warranty does not cover any supplementary function of a third party product that is added by users or suppliers. Please note that any damage or other issues caused by failure of function or interconnection with Aiphone products is also not covered by this warranty. Aiphone will not be responsible for any costs incurred involving on site service calls. Aiphone will not provide compensation for any loss or damage incurred by the breakdown or malfunction of its products during use, or for any consequent inconvenience or losses that may result.

The object area of ⌦ is the EU.

### FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna

• Increase the separation between the equipment and receiver.

• Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

### FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**AIPHONE**

*Providing Peace of Mind*

https://www.aiphone.net/