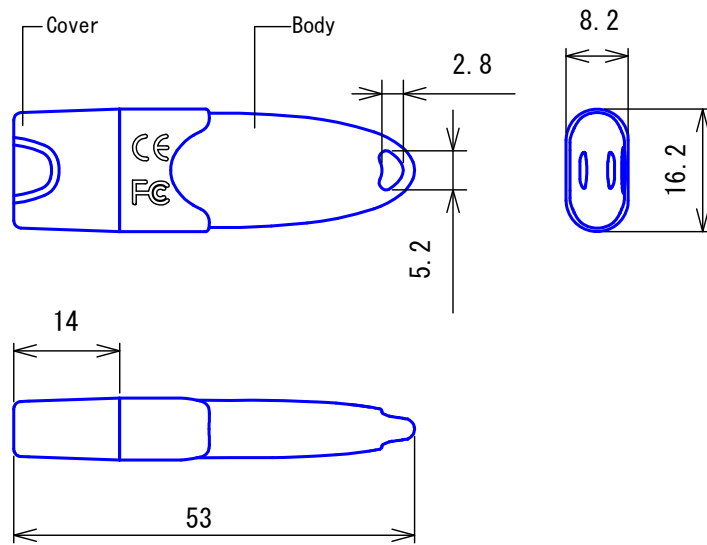


■ PRODUCT DRAWING

● License authentication USB key



■ SPECIFICATIONS (License authentication USB key)

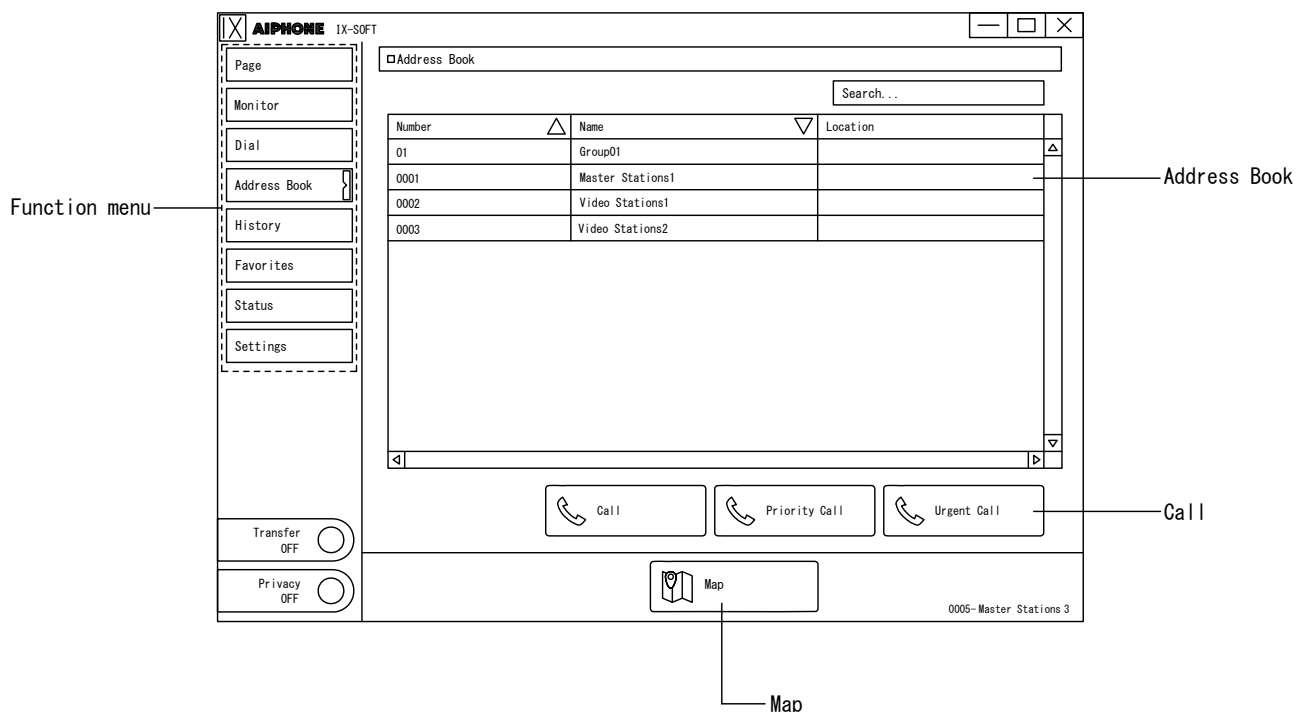
Current consumption	250mW or less
USB interface	USB 1.1 / USB 2.0 / USB3.0
Connector	A Plug
Ambient temperature	0 - 70°C
Storage environment	-10 - +80°C , 20 - 80%
Material	Polycarbonate
Unit color	Blue
Weight	Approx. 6g
Remarks	Used for; IX system

DESCRIPTION INTERCOM APPLICATION FOR PC	FIG. NAME PRODUCT DRAWING/SPEC.	UNIT mm (inch)	DATE 1 July, 2020
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■ INTERCOM APPLICATION FOR PC

Download the application from our website.
Install it on a PC (commercially available) and use it.



● System requirements

OS	Windows® 7 Professional、Windows® 7 Enterprise、Windows® 7 Ultimate Windows® 8.1、Windows® 8.1 pro、Windows® 8.1 Enterprise Windows® 10 Home、Windows® 10 pro、Windows® 10 Enterprise Windows® 10 Education
CPU	32 bit (x86) processor or 64 bit (x64) processor of 2 GHz or higher (Windows® 7 is 64bit only)
Memory	1 GB or higher
Screen resolution	1024x768 or greater
Runtime	.NET Framework4.6.2 or later (Windows® 7 requires SP1) Microsoft Visual C ++ Redistributable Package for Visual Studio 2017 or later

*. When using Windows 7, the sound during the communication be interrupted.

■ SPECIFICATIONS (Intercom application for PC)

Audio codec	G. 711 (μ -law, A-law), G. 722
Video codec	H. 264/AVC, Motion-JPEG
Protocol	IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, SFTP, DHCP, NTP, DNS
Encryption method	TLS1.2 (CRAM-MD5 for email)
Packet delivery	Unicast, Multicast
Number of units in address book	Max. 499 stations (Max. 9,998 stations for Expanded System)
Remarks	ONVIF Profile S supported

DESCRIPTION	FIG. NAME	UNIT	DATE
INTERCOM APPLICATION FOR PC	INTERCOM APPLICATION FOR PC/SPEC.	mm	1 July, 2020
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■ RESTRICTIONS

- Settings with the dedicated application "IX support Tool" are required.
- Due to handsfree auto voice actuation system, smooth voice switching may be hindered by voice strength of the opponent or ambient noise, etc.
- While updating the System settings, stations unavailable.
- Do not register unused units in the address list. If unused units are present in the address list, system performance will degrade.
- If the audio codec is G.722, the transmitted and received sound has the same sound quality as G.711 (8 kHz sample rate).
- If the application is used without the PC recognizing the inserted license authentication USB key, the application may only be used for 30 days.
- When the computer is in sleep mode, network communication may not be possible, or applications may not operate properly.
- When using a USB-LAN adapter, images may be distorted.
- When using a headset, the ringtone will ring only in the headset.

■ RESTRICTIONS ABOUT THE NETWORK

- When connecting via the Internet (global IP networks), VPN Service is necessary.
- 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 IX 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 IX 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, operation delays might occur.
- 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 - G.722: 64kbps x 2(in communication), 64kbps x stations(on page)
 - H.264: 32kbps up to 2048kbps
- IPv4 and IPv6 cannot be mixed in the same system.
- When using multicasting for video, or audio, use in an environment that does not reject IGMPv3 or MLDv2.

DESCRIPTION INTERCOM APPLICATION FOR PC	FIG. NAME RESTRICTIONS	UNIT mm	DATE 1 July, 2020
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■ FUNCTIONS

- Calling
 - Individual Call : Call a specific station.
 - Group Call: Make an outgoing call to all stations that belong to the selected group.
 - Contact input call: Make an outgoing call to all stations that belong to the selected Contact input call group.
- Answer and communication
 - Push-to-talk: This communication mode switches between sending speech or receiving speech.
 - Mute mode: During communication, the camera and microphone can be turned off by pressing the mute button.
 - Auto answer: When auto answer is enabled, individual calls from other Master Stations or Intercom application for PC will be answered automatically.
 - Privacy: When auto answer feature is enabled, the camera and microphone of the station will not be turned on.
- Monitoring
 - Monitor a door station: Monitor video and audio from a door station.
Master Stations or Intercom application for PC cannot be monitored.
 - Monitor a network camera: Monitor video from a network camera.
 - Scan monitor: Monitor video and audio from multiple terminals or network cameras while switching over at regular time intervals.
- Audio or video recording function
 - Audio or video recording: Record audio and video to a PC storage at the start of or during a call.
 - Audio or video playback: Play an audio or video recordings.
- Transfer
 - Absent transfer/Schedule transfer/Delay transfer can be transferred to preset 10 stations. However, when transferring the transferred call again, it is transferred to one station.
 - Transfer calls (during communication): Transfer an answered call to another station.
 - Absent transfer: Activate absent transfer, the incoming calls are sent to another station automatically.
 - Schedule transfer: A call can be transferred automatically, according to a schedule.
 - Delay transfer: Incoming calls can be transferred to another station automatically when not answered within a set period of time.
- Paging
 - Paging a group: Send a page to all stations that belong to a selected group.
 - Paging all stations: Send a page to all stations that are registered on this device.
Note) Unicast can reach up to 50 stations.
 - Message paging: Distribute message data and play notification sound on receiving device.
- Speed Dials/Favorites
 - The following functions can be assigned to each of the fifty speed dials.
 - Calling: Individual Call, Group Call
 - Paging: Group page, All page, Message page
 - Monitor: Monitor a station or network camera, Scan monitor
 - Option Relay Control: Control another station's relay output.
- Map function
 - Arbitrary map image files can be imported and station icons can be placed on the map.
 - The following functions can be executed from the created map.
 - Select station
 - Calling, Paging, Monitoring, Option Relay Control
 - Indicate the status of stations (SIF setting is necessary)
- Others
 - IP-PBX integration: IX System can integrate with IP-PBX.
 - Make, receive, transfer calls, answer visitors, and release doors.
 - Unlock a door: Unlock an electric lock during communication, or during monitoring.
 - Up to each 500 incoming/outgoing call records are stored. Station monitoring is not logged in call history.

DESCRIPTION INTERCOM APPLICATION FOR PC	FIG. NAME FUNCTIONS	UNIT mm	DATE 1 July, 2020
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Adjust video to enhance visibility: The image will be adjusted to back light compensation and night time correction.

Send emails: Emails can be sent to pre-registered email addresses when triggering events occur.

Picture-by-picture function: Display images from two cameras simultaneously during calling, monitoring, or other function.

Supervision: Perform line supervision or device check.

■ SETTING

- Station settings
Configure on the station
- Using the "IX Support Tool" application
Install the application on a PC and use to create the setting file for all stations.
Refer to "■ IX SUPPORT TOOL"

■ IX SUPPORT TOOL

- System requirements

OS	Windows® 7 Professional, Windows® 7 Enterprise, Windows® 7 Ultimate Windows® 8, Windows® 8 pro, Windows® 8 Enterprise Windows® 8.1, Windows® 8.1 pro, Windows® 8.1 Enterprise Windows® 10 Home, Windows® 10 pro, Windows® 10 Enterprise Windows® 10 Education
CPU	32 bit (x86) processor or 64 bit (x64) processor of 1 GHz or higher
Memory	4 GB RAM or higher
Screen resolution	1280x768 or greater

- Functions
 - Settings(Table View)---All stations in the system can be configured from the Settings window.
 - Settings(Station View)---Configure each station in the system individually.
 - Setting File Download---Store the Settings File
 - Setting File Upload---Upload the Settings File
 - Station Search---Search the stations in IX System connected in the network to show the list.
 - Station Replacement---this feature to replace a station.
 - Restore System Settings---If the setting file is lost, the setting file can be restored.
 - Update Firmware---Update the firmware for the station.
- Restrictions
 - If the station was configured or modified using the web interface, the setting file cannot be downloaded using the IX Support Tool.

■ IX SUPERVISION TOOL

Install the application on a PC and use to Line supervision and device check for stations.

- System requirements

OS	Windows® 7 Professional, Windows® 7 Enterprise, Windows® 7 Ultimate Windows® 8, Windows® 8 pro, Windows® 8 Enterprise Windows® 8.1, Windows® 8.1 pro, Windows® 8.1 Enterprise Windows® 10 Home, Windows® 10 pro, Windows® 10 Enterprise Windows® 10 Education
CPU	32 bit (x86) processor or 64 bit (x64) processor of 1 GHz or higher
Memory	4 GB RAM or higher
Screen resolution	1280x768 or greater

- Functions
 - Line Supervision---By checking the response to a ping, this feature confirms that the station is properly connected to the network.
 - Device Check---This function to determine whether stations are operating normally or malfunctioning.
 - Download Video and Audio---To download recordings of the Door Stations.

DESCRIPTION INTERCOM APPLICATION FOR PC	FIG. NAME FUNCTIONS/ SETTING/ IX SUPPORT TOOL/ IX SUPERVISION TOOL	UNIT mm	DATE 1 July, 2020
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