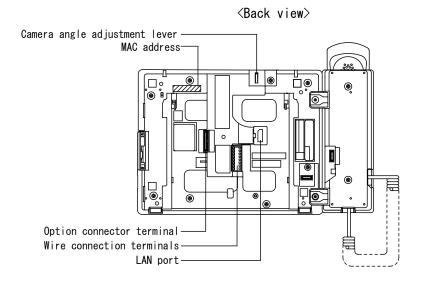
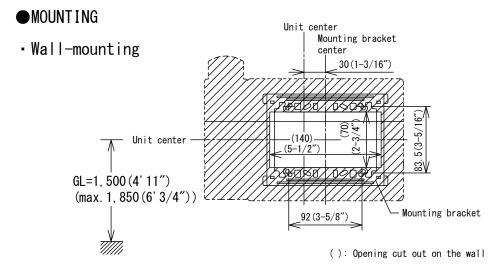
# ■PRODUCT DRAWING Mounting bracket-55. 5 (2-3/16" 31. 280 (11") (1-1/4')Camera Privacy mask lever (on top) Camera position -Status indicator light (orange/blue) Liquid crystal display (touch screen) 75. Reset button-Unit center microSD card slot 3.5mm 4-conductor mini jack -Microphone Home button Handset - Speaker Spiral code (Unexpanded: 230(9-1/16")/max.1,500(4'11"))

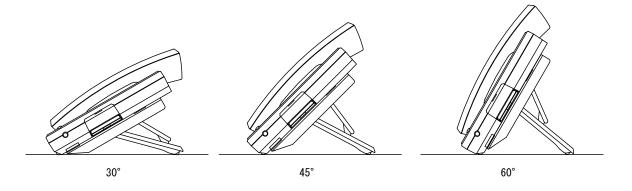
# ■ SPECIFICATIONS

Power source	Power-ove	Power-over-Ethernet (IEEE 802.3af Class 0)				
Current consumption	Standby 6	Standby 66mA, maximum 155mA				
Type of communication	Hands-fre	Hands-free: Automatic voice switching/touch-to-talk				
Type of Communication	Handset:					
Monitor	7" TFT LC	D display, WVGA 800 x 48	0 (approx.	1.15 mill	ion pixels)	
Camera	1/4-type	CMOS, VGA 640 x 480 (app	rox. 300,0	000 pixels)		
LAN	Ethernet(	10BASE-T, 100BASE-TX) A	uto MDI/MI	)I-X-compat	ible	
Audio codec	G. 711 (μ-	law, A-law), G.722				
Video codec	H. 264/AVC	, Motion JPEG				
Protocol	IPv4, IPv	6, TCP, UDP, SIP, HTTP,	HTTPS, RTS	SP, RTP, RT	CP, IGMP, MLD, SMTP,	
Protocol	SFTP, DHC	SFTP, DHCP, NTP, DNS				
Encryption method	TLS1.0, T	TLS1. 0, TLS1. 1, TLS1. 2				
Packet delivery	Unicast,	Unicast, Multicast				
Number of stations in	500 atati	500 stations				
address book	500 Stati	500 Stations				
Ambient temperature	0~40°C (	0~40°C (32~104° F)				
Mounting	Desktop u	Desktop use (with desktop stand) or wall-mount				
Electrical box	3-gang bo	3-gang box				
Material	Self-exti	nguishing ABS resin				
Unit color	Snow whit	e (5Y9.3/0.1 Munsell App	roximation	n)		
Waight	1. 0kg (ap	prox.)(2.2 lbs)				
Weight	(when use	hen used with desk stand: 1.3kg (approx.)(2.9 lbs))				
Remarks	ONVIF Pro	ONVIF Profile S support				
DESCRIPTION	·	FIG. NAME UNIT DATE			DATE	
MASTER STATION		PRODUCT DRAWING/SPECIFICATIONS mm 19 December 19 Decem			19 December, 2018	
MODEL NO.		FIG. NO. PAGE REVIS			AIDHONE	
IX-MV7-HW		158509-1-8 1/8 1 AIPHONI				



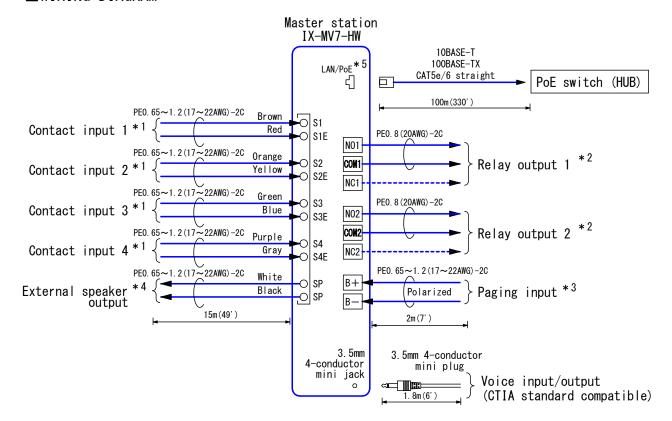


- Desktop mounting(with desktop stand)
  - \* Desktop stand is included with Master Station



DESCRIPTION	FIG. NAME		UNIT	DATE
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### ■WIRING DIAGRAM



#### \*1. Contact Input Specifications

Input method	Programmable dry contact (N/O or N/C)		
Triput illetriod	Level detection method		
Detection time	70msec or more		
Contact resistance	Make: 700Ω or less		
Contact resistance	Break: 3kΩ or more		
Terminal short-	10-4 1		
circuit current	10mA or less		
Voltage between	5.5V DC or less(between open terminals)		
terminals	3.37 DC Of Tess (between open terminals)		

#### \*2. Relay Output Specifications

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

#### \*3. Paging Audio Input Specifications

Input impedance	600Ω
Input audio level	50mVrms

#### \*4. External Speaker Output Specifications

Output impedance	8Ω
Maximum output power	0. 5W

#### \*5. IEEE802.3af

DESCRIPTION	FIG. NAME		UNIT	DATE
MASTER STATION	WIRING DIAGRAM		mm	19 December, 2018
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### ■ RESTRICTIONS

- A PoE-compatible switch must be used as the switch (hub) for station connection.
- A computer is required to make system settings.

  IX system can be configured in one of the two methods, "IX Support Tool" application or Web browser. Once the system has been configured through a browser, the settings cannot be transferred to IX Support Tool. The IX Support Tool is recommended for system settings management.
- 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.
- In order to audio or video record, the following microSD memory card (market goods) compliant with SD standard is necessary.

Standard	Capacity	File System	Speed Classes
SDHC	2GB up to 32GB	FAT32	C10. U1
SDXC	64GB up to 128GB	exFAT	010, 01

### ■ 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. The DUID of the device: 00030001 + MAC address
- 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 web-setup network-camera searches, video, or audio, use in an environment that does not reject IGMPv3 or MLDv2.

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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

Touch-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 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 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 microSD card at the start of or during a call.

Audio or video playback: Play an audio or video recording saved to a microSD card on a station or a computer.

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 eight 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.

• Option Input

The following functions can be assigned to each of the four option inputs.

Calling: Individual Call, Group Call

Answer operation: Answer a call and page by option input.

Paging: Group page, All page, Message page, External input page

Turn LCD on: Turn on LCD by option input. API: Send API command by option input.

DESCRIPTION	FIG. NAME		UNIT	DATE
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• Relay Output

The following functions can be assigned to each of the two relay outputs.

Status output: Make a relay output in status of Outgoing a call/Incoming a call/

Communication/Outgoing a page/Incoming a page.

Door Release: Trigger a relay output when receiving an unlocking instruction.

Option Relay Control: Trigger a relay output when receiving making an relay output

instruction from another station.

• Others

IP-PBX integration: IX System can integrate with IP-PBX \*.

Make, receive, transfer calls, answer visitors, and release doors.

\*. Integration with SIP (Unified Communication Manager) of Cisco Systems.

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.

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.

Chime: Play message data following a preset schedule.

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

Supervision: Perform line supervision or device check.

#### Indicators

Name	Status *1	Description		
		Booting		
	Status *1  Orange flashing  Orange light  Blue flashing	Device error		
	Ouenne flashing	Communication failure, Line supervision error,		
	orange frasning	Device check error		
		Firmware version upgrading		
		Initializing		
	Orange light	Turning power on, setting transfer on		
	indicator	Calling destination busy		
		Outgoing calling, monitoring,		
Status indicator		or outgoing paging		
		Incoming calling		
		Door releasing *2		
		Missed call		
		Incoming paging		
		Receiving an event notification from a		
		network camera		
	Rlue light	During communication		
	Dido Figit	Standby (Depends on setting)		

- \*1. The flashing pattern varies depending on the state of master station.
- \*2. This flashes when the electrical lock connected to this station is released.

  If the door release timeout is set to 3 seconds or less, it will flash at a 3 second interval.

DESCRIPTION	FIG. NAME		UNIT	DATE
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## ■ IMAGE VIEW AREA & MOUNTING HEIGHT

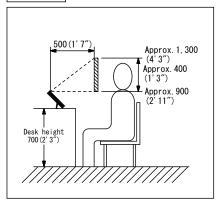
■Note about desktop use

In the case of installed on a desk. Condition: Desktop stand (45°)

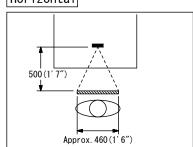
Camera position(the most downward(-20°)

Adjust the camera position according to the desktop stand angle.

### Vertical



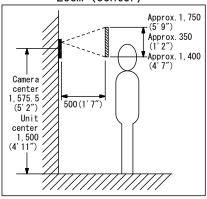
### Horizontal



### Wall mounting

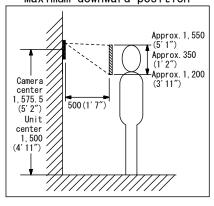
### Vertical

### Zoom (center)

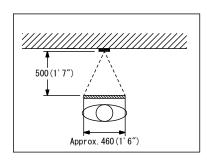


### Vertical

## Maximum downward position



### Horizontal



DESCRIPTION	FIG. NAME		UNIT	DATE
MASTER STATION	IMAGE VIEW AREA & MOUNTING HEIGHT		mm	19 December, 2018
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IX-MV7-HW	158509-7-8	7/8	1	AIPHONE

### ■ SETTING

- Station settings
   Configure on the station
- WEB settings Configure using a PC System requirements

Network	Ethernet (10BASE-T, 100BASE-TX)
Web browser	Microsoft Edge / Internet Explorer 10.0, 11.0 / Mozilla Firefox 59, 60(TLS1.0, 1.1 or 1.2 enabled)

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

08	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	FIG. NAME		UNIT	DATE
MASTER STATION	SETTING/ IX Support Tool/ IX Supervision Tool		mm	19 December, 2018
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