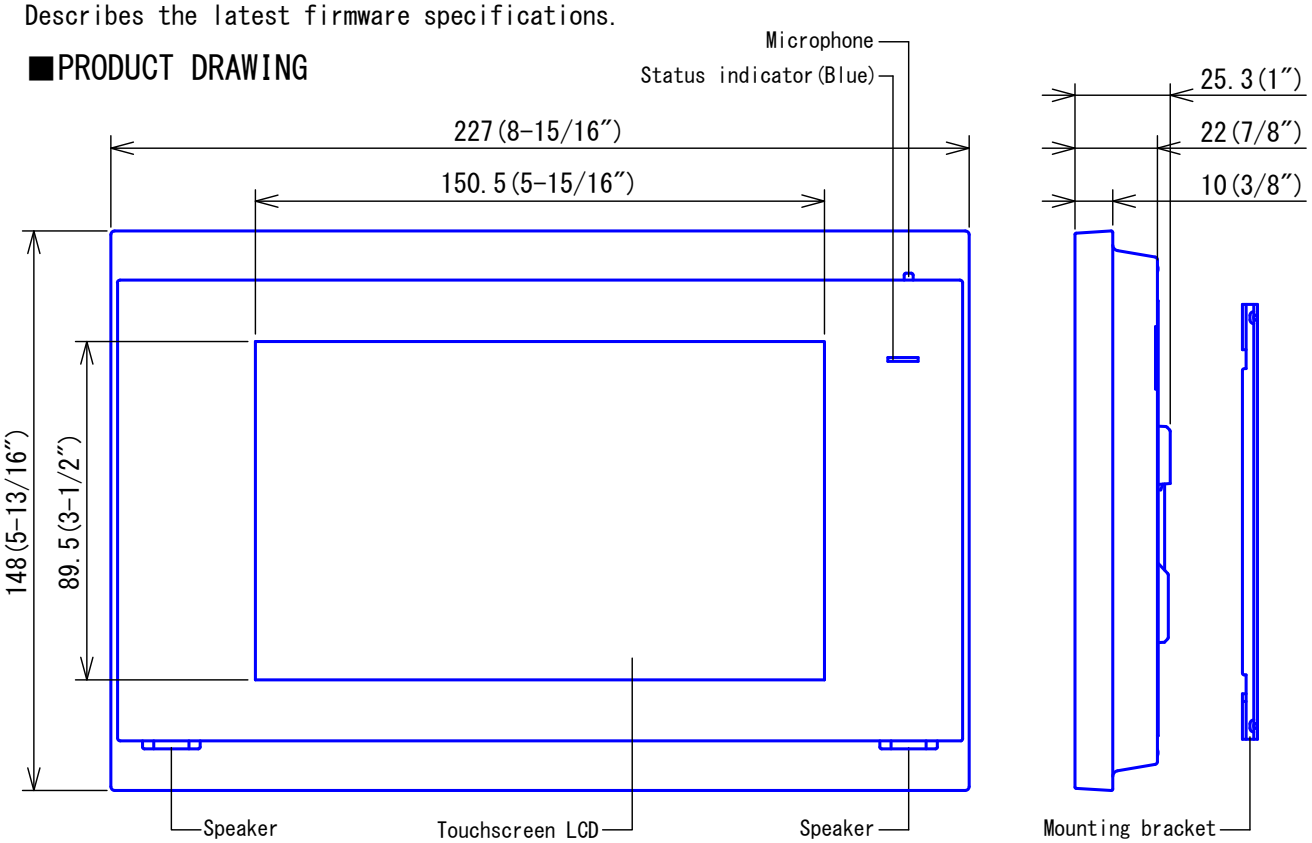
Describes the latest firmware specifications.

■PRODUCT DRAWING

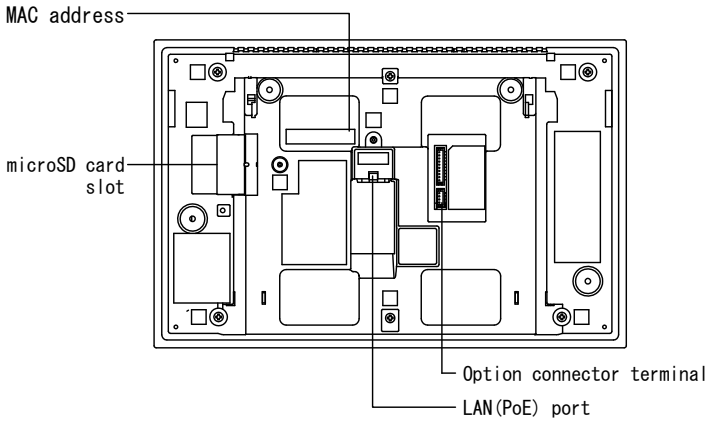


■SPECIFICATIONS

Power source	PoE (IEEE 802.3af Class 0 standard)
Power consumption	Standby 1.9W, Max. 5.9W (48V DC)
Communication	Full duplex audio (depending on the destination station)
Display	7″ TFT LCD display (Capacitive touch panel)
Display resolution	WVGA 800 x 480 (Approx. 1.15 million pixels)
LAN	Ethernet (10BASE-T, 100BASE-TX), Auto MDI/MDI-X-compatible
Audio codec	G.711 (μ-law, A-law)
Video codec	H.264 AVC, Motion-JPEG
Protocol	IPv4, IPv6, TCP, UDP, SIP, RFC3261, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, SFTP, DHCP, NTP, DNS, TLS
Encryption method	TLS1.2, IEEE802.1X
Packet delivery	Unicast, Multicast
Number of units	Max. 9,999 units (Number of stations that can be registered as a call destinations: IX/IXG stations and VoIP phones: Max. 500 stations phones: Max. 9,999 stations Intercom Apps: Max. 9,999 units x 8)
Operating ambient temperature	0 - 40℃ (32 - 104° F)
Mounting	Wall-mount
Electrical box	3-gang box
Material	Flame retardant PC + ABS resin
Unit color	Snow white (5Y9.3/0.1 Munsell Approximation)
Weight	Approx. 560g (1.24 lbs)
Remarks	ONVIF Profile S supported

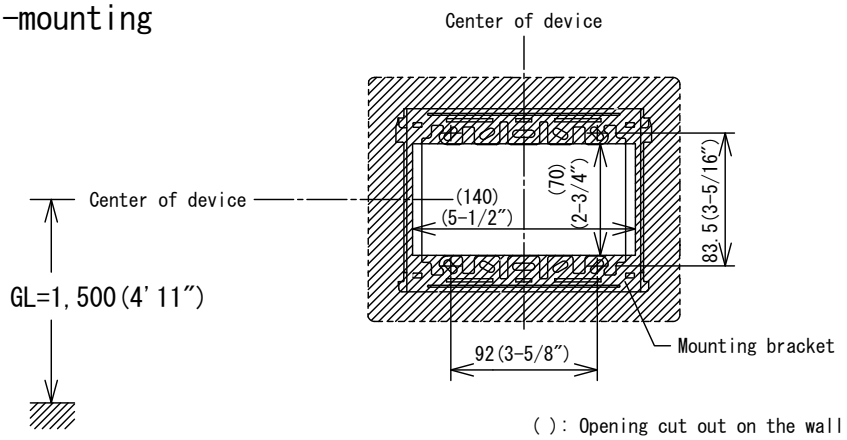
DESCRIPTION	FIG. NAME		UNIT	DATE
VIDEO TENANT STATION	PRODUCT DRAWING/SPEC.		mm	20 December, 2023
MODEL NO.	FIG. NO.	PAGE	REVISION	AIPHONE
IXG-2C7	I56687-1-6	1/6	4	

<Back view>



●MOUNTING

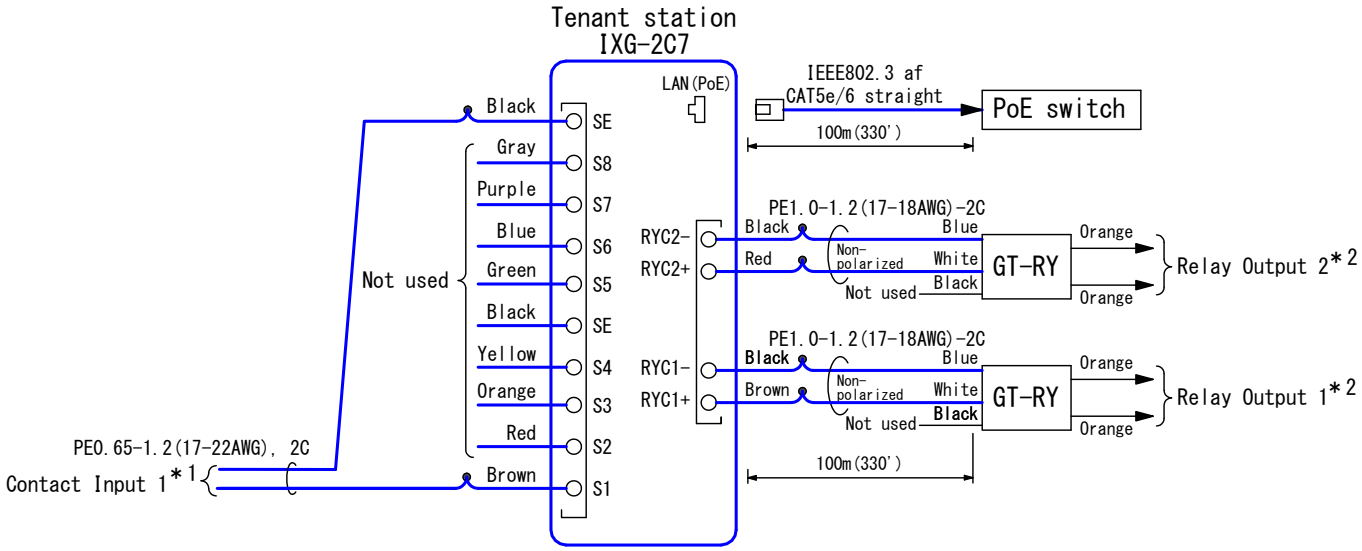
・Wall-mounting



( ): Opening cut out on the wall

DESCRIPTION	FIG. NAME		UNIT	DATE
VIDEO TENANT STATION	PRODUCT DRAWING		mm	11 October, 2023
MODEL NO.	FIG. NO.	PAGE	REVISION	AIPHONE
IXG-2C7	I56687-2-6	2/6	2	

■WIRING DIAGRAM



*1. Contact Input Specifications

Input method	Programmable dry contact (N/O or N/C) (The operation will not be performed again even if the input continues at the time of recovery.)
Detection time	200 msec or more
Contact resistance	Make: 700 Ω or less Break: 3 kΩ or more
Terminal short-circuit current	10 mA or less
Voltage between terminals	5.5 VDC or less (between open terminals)

*2. Relay Output Specifications (GT-RY)

Output method	Form A dry contact (N/O)
Contact rating	24 VAC, 0.5A (resistive load) 24 VDC, 0.5A (resistive load)

DESCRIPTION	FIG. NAME		UNIT	DATE
VIDEO TENANT STATION	WIRING DIAGRAM		mm	11 October, 2023
MODEL NO.	FIG. NO.	PAGE	REVISION	AIPHONE
IXG-2C7	I56687-3-6	3/6	2	

■RESTRICTIONS

- A PoE-compatible switch must be used as the switch (hub) for station connection.
- A computer is required to make system settings.
  IXG system can be configured in "IXG Support Tool" application.
- 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	Supported storage capacity	Format	Speed Class
microSDHC memory card	4GB to 32GB	FAT32	SD speed class 10

- 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.

■RESTRICTIONS ABOUT THE NETWORK

- When connecting via the Internet (global IP networks), VPN Service is necessary.
- Wired LAN is recommended because wireless LAN and other wireless communications may not work properly due to security and 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 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 : 64kbps x 2(in communication), 64kbps x stations(on page)
- IPv4 and IPv6 cannot be mixed in the same system.
- When using multicasting for network-camera searches, video, or audio, use in an environment that does not reject IGMPv3 or MLDv2.

■NETWORK SECURITY

This unit is used while connected to a network, and so may be exposed to the following forms of harm.

- Data breach or leakage via the unit
- Illicit operation, impairment, or stoppage of the unit by a malicious third party

To prevent such harm, you must implement, at your own responsibility, network security measures that also include measures such as the following.

- Use the unit on a network whose safety is secured by the use of a firewall or the like.
- When using the unit in a system to which computers are connected, verify that checking and elimination with respect to infection by computer viruses and illicit programs is conducted periodically.
- To prevent network breaches of video or audio data, authentication data (users names and passwords), notification email data, and the like, implement measures such as restricting access by means of user authentication.
- Store authentication data (user names and passwords) carefully and out of sight from third parties.
- Never install in such as way that the unit or cables can easily be detached or damaged.

■FUNCTIONS

- Calling
  - Calling a Commercial unit
  - Calling a Guard unit
  - Calling a Common Inside Area
  - Calling other Residential units
  - Calling another station and Intercom App in the own unit
- Answer and communication
  - Mute mode: During communication, the microphone can be turned off by pressing the mute button.
  - Auto answer: Answer a call from another Tenant station in the Residential unit automatically.
- Monitoring
  - Monitoring a Door station: Monitor video and audio from a Door station in the Residential unit or Common Outside Area.
  - Monitoring an Entrance station: Monitor video and audio from an Entrance station.
  - Monitoring an IP camera: View the video and audio of an IP camera.

Resolution of network cameras capable of displaying video	Resolution of network cameras capable of recording video
HD or lower (However, set to 5 fps or lower if larger than WVGA.)	QVGA, VGA, WVGA, HD

- Paging
  - Incoming a page
- Audio or video recording function
  - Automatic recording of audio and video: When receiving an incoming call, video can be recorded automatically for approximately 10 seconds. Save this record on the microSD card.
  - Manual recording of audio and video: Video and audio can be recorded manually for approximately 10 seconds. Save this record on the microSD card.
  - Audio or video playback: Play an audio or video recording saved to a microSD card on a station or a computer.
- Option Input
  - The following function can be assigned to the option input.
  - Incoming call from a doorbell: Receive an incoming call notification from a doorbell.
- Relay Output
  - The following function can be assigned to each of the two relay outputs.
  - Status output: Make a relay output in status of Incoming a call.
- Others
  - Do not Disturb: When a call or paging other than "urgent" is received, the operation is restricted such as no ringtone or screen.
  - Automatic Open: The door is automatically released when there is an incoming call from the Entrance Station.
  - Receiving messages from the Property Manager
  - Unlock a door: Unlock an electric lock while receiving an incoming call, during communication, or while monitoring.
  - Up to each 20 incoming/outgoing call records are stored.
  - Adjust video to enhance visibility: Video can be adjusted to backlight compensation or night correction.
  - Control a lift by pressing the lift control button.

■SETTING

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

■IXG SUPPORT TOOL

- System requirements

OS	Windows 7 Windows 8 Windows 8.1 Windows 10 Windows 11
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: All stations in the system can be configured from the Settings window.
  - Setting File Download: Store the Settings File
  - Setting File Upload: Upload the Settings File
  - Station Search: Search the stations in IX/IXG 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.

■IXG SUPERVISION TOOL

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

- System requirements

OS	Windows 7 Windows 8 Windows 8.1 Windows 10 Windows 11
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 Station's (except IX-SOFT) micro SD card.