VC-1020 Sensor Unit Installation Manual

System : Issued : Issued by : Distribution to: VC-1020 Sensor Unit July 5th 2014 [First Edition] Giken Trastem Co., Ltd. Sensor Installer, Installation Engineer



Version:

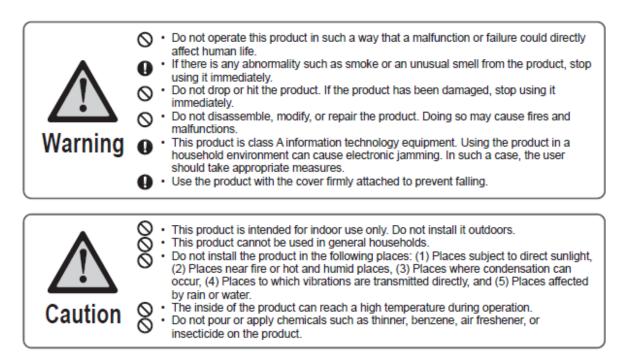
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SAFETY INDICATIONS

This section provides notes to use the product safely. Please read this section carefully to ensure proper and safe use of the product.



FCC Part 15 Subpart B Class A

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

This device may not cause harmful interference.

(2)This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE The CE marking indicates compliance to 2004/108/EC EMC Directive with Standards EN55022 Class A ; EN55024

Giken Trastem assumes no responsibility if the installation and wiring connection which are stated in the instruction manual provided together with this product is not carried out, or if the AC adapter that is provided together with this product is not used, or when product without CE marking is connected to this device.

Conditions of use:

This product is not intended for use in any safety-critical or personal safety application. GIKEN TRASTEM assumes no liability

for any accident resulting in personal injury, death, or property damage if this product has been used in the above conditions.

1. INTRODUCTION

SENSOR UNIT

The sensor detects and tracks the number of people accurately using Image Recognition technology.

The sensor is installed on the ceiling of entrances and passageways of retail, public facilities etc. to capture movements of people from above.

IN and OUT traffic data is recorded to the sensor continuously every minute and the collected data is sent to the designated server via LAN.

Traffic data can be compiled and used as marketing information.

The sensor can cover movements of the people in a wide area and recognizes and tracks the movements of people accurately therefore can omit people hovering near the counting area to provide an accurate traffic count.

This manual "PALOSSIE AIO (VC-1020 Sensor Unit) Installation Manual (Overseas)" explains the required steps to install the system.

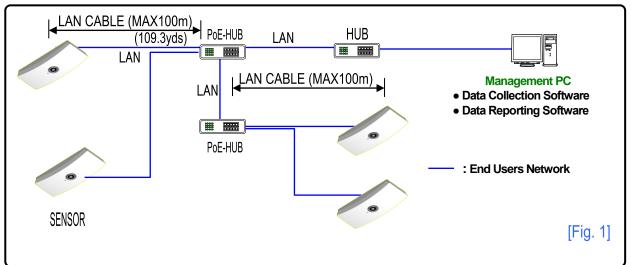
This manual is intended for the system installer.

Please follow the steps indicated in this manual when installing the sensor unit.

2. SYSTEM DIAGRAM / INSTALLATION WORK DETAILS

The system diagram below illustrates a general system installation of a mid-scale facility.

Details of SENSOR UNIT ->PoE HUB ->Management PC connection example. (refer to Fig. 1) The cable length from the Sensor Unit to PoE HUB is max. <u>100m (109.3yds)</u>.



Work details for System Installation

ltem	Work Details	Remarks
1	Signal lines, Power lines, Wire laying work according to System Wiring Diagram	
2	SENSOR UNIT ceiling mount installation and wire connection work	
3	Connect LAN cable	
4	Locally purchase PoE HUB	
5	Data Collection, Reporting Software Installation	Data Collection, Reporting Software (if required)

3. SENSOR UNIT INSTALLATION AND WIRING

Precautions

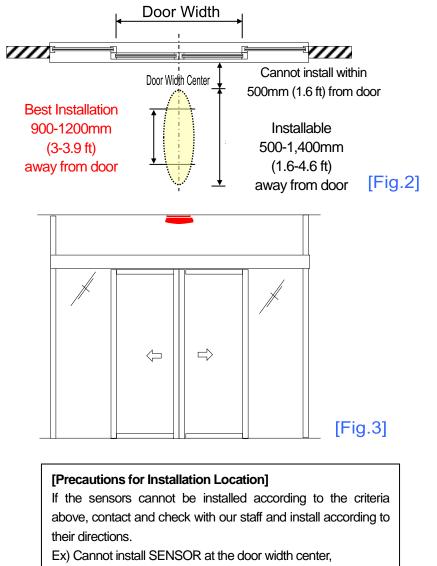
Please keep the SENSOR lens free from any dust or debris.

Installation Location Criterion

Install the SENSOR along the center of the door width, unless there is an object obstructing the center of the door width. (Refer to Fig. 2)

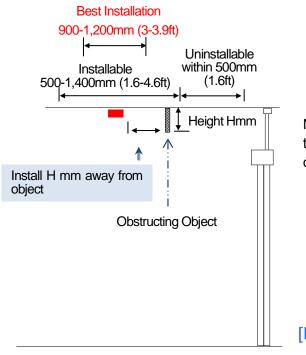
1) When installing the sensor at a corridor or passageway, install the sensor in the center, between the walls or pillars.

2) When installing 2 sensor units at 1 entrance (for wide entrances), divide the door width into two sections and install the sensors along the center of each divided section.



or the SENSOR cannot be installed between the

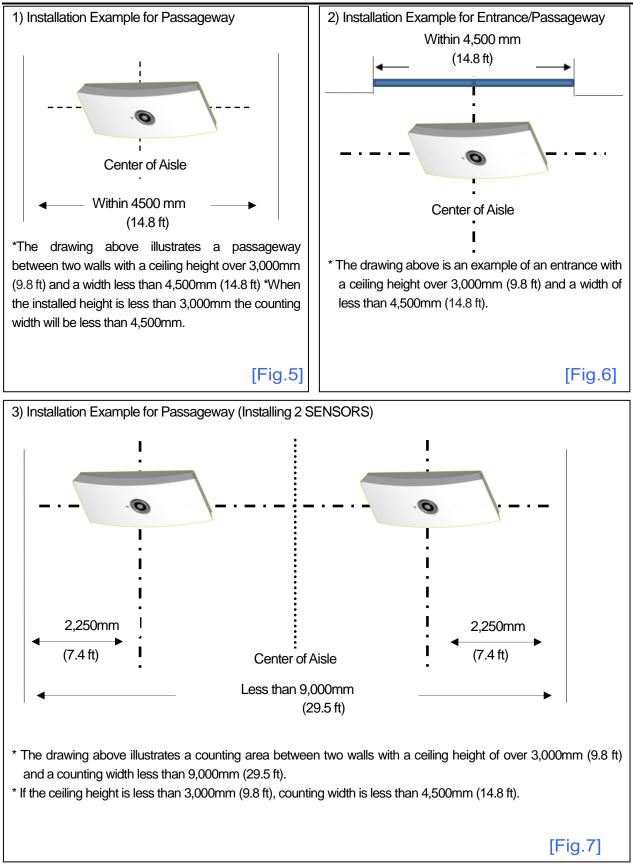
recommended 500-1400mm etc.



NOTE: When there is an obstructing object near the sensor, install the sensor the "same height as object" away from the object.

[Fig.4]

4. SENSOR INSTALLATION LOCATION EXAMPLE



4,200mm (13.8 ft) 3,000mm (9.8 ft) 2,300mm (7.5 ft) 7 1,800mm (5.9 ft) 4,500mm (14.8 ft) [Fig.8]

*The counting width varies according to fitted heights.

Ceiling height and Detection Area -1

Standard Mode	
Ceiling Height	Detection Area
2,300mm (7.5 ft)	1,800mm (5.9 ft)
~	~
3,000mm to 4,200mm (9.8 ft – 13.8 ft)	4,500mm (14.8 ft)

High Mode

*When using high mode the

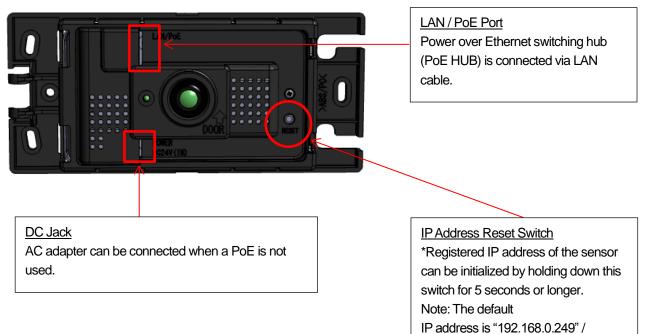
detection area is smaller.

Ceiling Height	Detection Area
4,000mm	3,000mm
(13.1 ft)	(9.8 ft)
5,000mm	4,000mm
(16.4 ft)	(13.1 ft)
6,000mm	4,000mm
(19.7 ft)	(13.1 ft)

5. SENSOR DESCRIPTION

	Sensor Cover Attached
Operation LED	
Initializing	:AMBER (When powered on will take 20 seconds to boot.)
Normal	:GREEN ON
IN Count	:RED FLASH
OUT Count	:GREEN FLASH
Power OFF	:DARK

Cover Removed



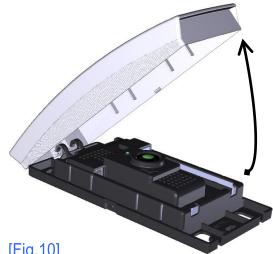
SENSOR UNIT INSTALLATION 6.

Removing the sensor unit cover

- 1) Insert your fingers in the location indicated in RED bottom of sensor and pull the cover from the unit. (Refer to [Fig. 9])
- 2) Completely remove the cover from the sensor unit. (Refer to [Fig. 10])



[Fig.9]



[Fig.10]

■ Wiring the sensor unit

1) Connect the LAN cable. (Refer to [Fig.11])



2) When supplying power from the power adapter without using PoE, insert the DC jack as indicated below. (Refer to [Fig.12])



DC24 (DC Jack) max.7W

Sensor Installation

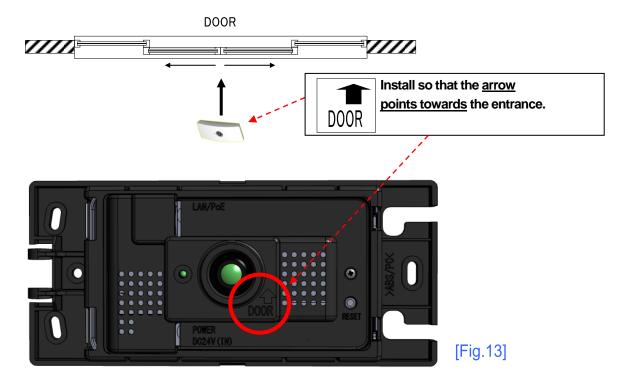
1) There is a specific sensor mounting direction.

DOOR

The DOOR Indicator on the sensor unit indicates the direction to install the sensor.

Mount the sensor with the DOOR Arrow pointed towards the entrance.

The sensor can also be installed at areas without doors such as passageways, please install in the most suitable area in those cases. (Refer to [Fig. 13])



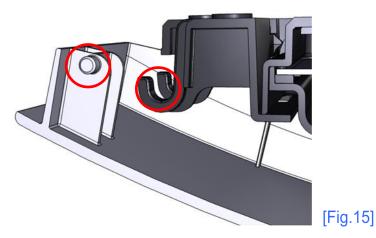
2) Secure the sensor unit to the ceiling at 3 points with screws (board anchors or suitable screw depending on ceiling material).



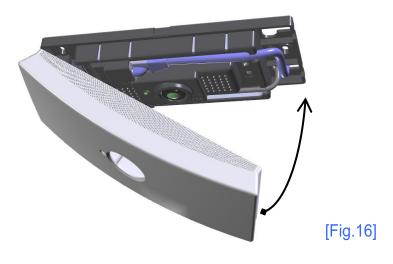
* Cables should be attached to the actual sensor unit. Omitted for explanation purposes.

Attaching the Sensor Cover

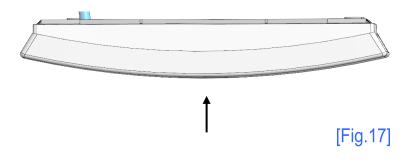
1) After securely fixing the sensor to the ceiling, reattach the cover. Hook the cover to the unit. (Refer to [Fig. 15])



(2) Attach the cover to the sensor unit. (Refer to [Fig. 16])



(3) Push the cover up until it is secured to the unit. (Push the cover till it Clicks shut.) (Refer to [Fig. 17])



Sensor Installation work is complete.

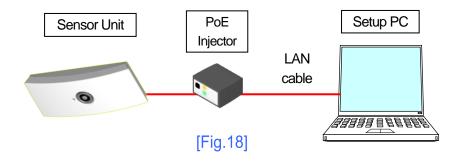
7. WEB SETTINGS

Do NOT connect the LAN cable to the END USERS network until the SENSOR UNIT network settings are completed.

- Web Settings.
 - (1) Connect PoE HUB (injector) to sensor unit. (Refer to Fig. 18)
 - (2) Power up the sensor (will take 20 seconds to initialize)
 - While the sensor is initializing the LED will light AMBER, after the sensor is initialized the LED will turn on GREEN.
 - (3) Connect the setup PC to sensor unit via PoE HUB (PoE injector)
 - *Setup PC requirements: Operating System (Windows VISTA or later) / Internet Explorer 8 or later.
 - *The sensor unit default IP address is "192.168.0.249". Please change the Setup PC network parameters to the same IP network range to enable communication between the setup PC and sensor (eg. 192.168.0.250).
 - (4) Setup the following network and sensor setup parameters.

Set the IP address, subnet mask, default gateway, port number and time settings, sensor mounting height, counting area, counting direction.

Please refer to "Web Settings Manual" for setup details.



8. CONNECT TO NETWORK

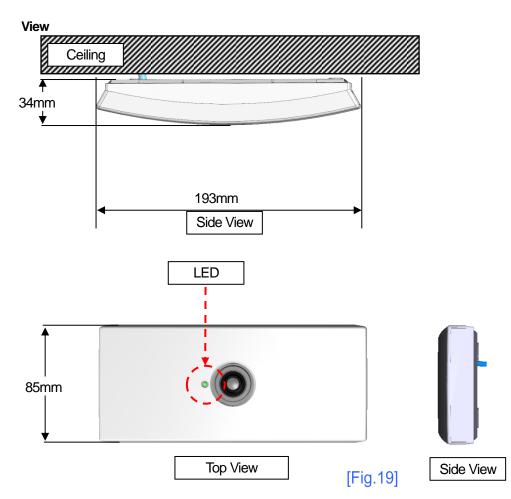
After completing the web settings, connect the LAN cable to end users network via PoE HUB. (Please insert the LAN connector, until it clicks)

*Upon connecting the LAN, sensor connects the end user's network. Recheck the IP Address of the sensor, before connecting the network.

9. SENSOR UNIT Specifications

SENSOR UNIT (VC-1020) Specifications

ltem	Specifications	Remarks
Dimensions	W : 193 mm (7.6inches) H : 85 mm (3.35inches) D : 34 mm (1.34inches)	Refer to [Fig. 19]
Installed Height	2,300mm to 4,200mm (7.5 to 13.8 ft)	High mode:4,000mm to 6,000mm (13.1 to 19.7 ft)
Power Source	DC48V (Max. 7W)	DC Jack: 24V
Cable Type	CAT5-UTP	
Wiring Distance	Distance to PoE HUB within 100m (109.3 yds).	
Connector	LAN connector	
LED Indicator	GREEN ON: Power ON (Normal) AMBER : Initializing (20 secs.) DARK : Power OFF	RED FLASH : IN GREEN FLASH: OUT



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