![TRAF-SYS PEOPLE COUNTING SYSTEMS logo]

Eclipse Installation v5021

Revised: 9/23/2016
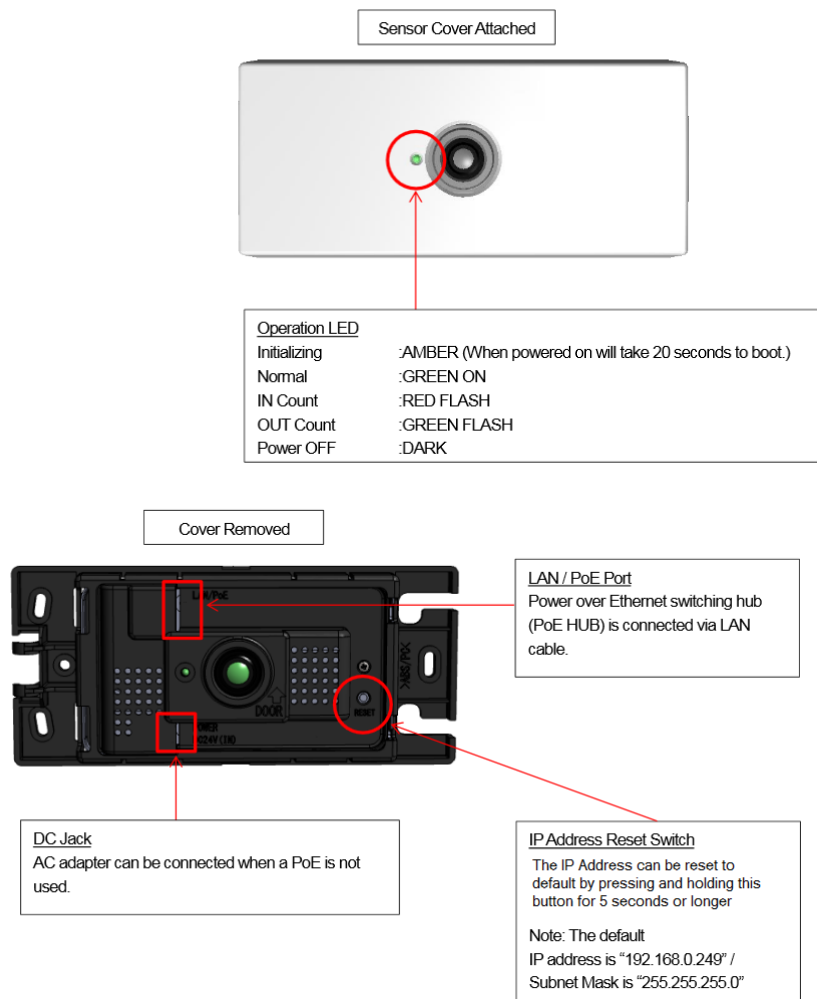

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1. Introduction and Features

The sensor detects and tracks the number of people accurately using Image Recognition technology. The sensor is installed on the ceiling of entrances and passageway 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 also has the following characteristics:
1. Covers movements of the people in a wide area.
2. Recognizes and tracks the movements of people accurately therefore can omit people hovering near the counting area and provides an accurate traffic count.

2. 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

LAN / PoE Port
Power over Ethernet switching hub (PoE HUB) is connected via LAN cable.

DC Jack
AC adapter can be connected when a PoE is not used.

IP Address Reset Switch
The IP Address can be reset to default by pressing and holding this button for 5 seconds or longer

Note: The default
IP address is "192.168.0.249" /
Subnet Mask is "255.255.255.0"

3. Physical Installation

3.1 Removing the Cover

To remove the cover:

- Insert your fingers into the location indicated in RED and pull the cover from the Unit.
- For complete removal of the cover continue in the same motion until cover comes free.

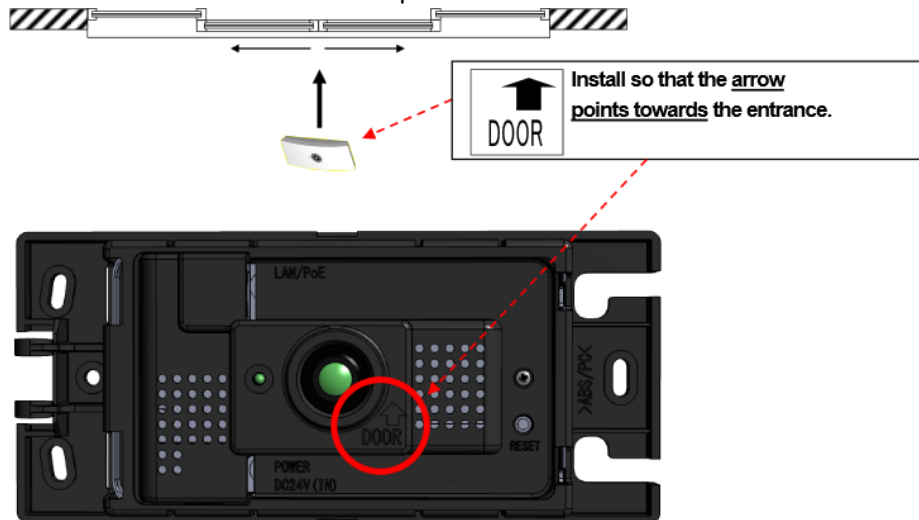The cover hooks onto the one end of the sensor as seen below.
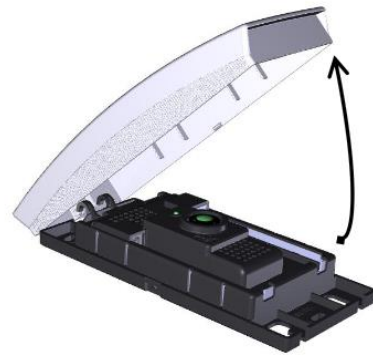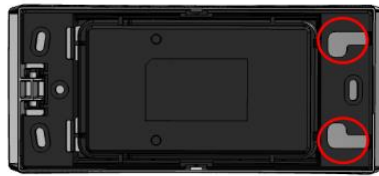
4. Installation Location

In the event that you are installing on an in swinging door please contact Trafsys Support prior to installing.
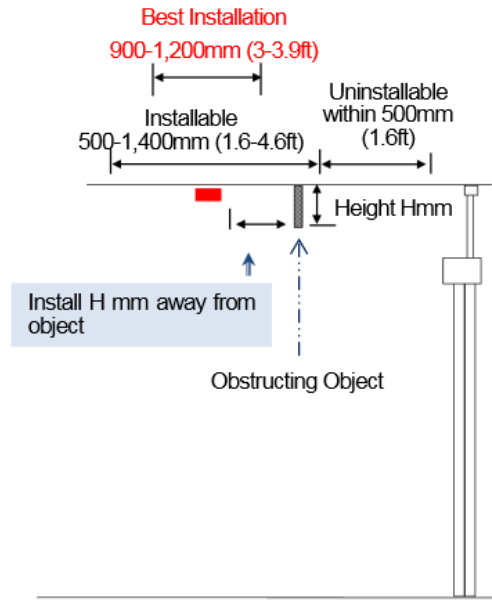
- Install sensor in center of door width (if an obstruction in way please see step 4). Please see illustration below:
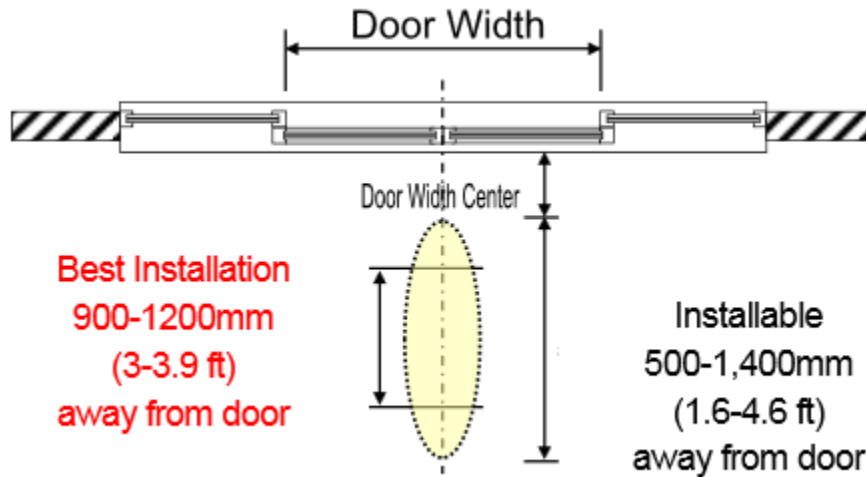
- There is an indicator on the sensor showing the direction to install the sensor.
  - o **Note:** Mount the Sensor with **DOOR** arrow pointed towards the entrance
- Mount the sensor with three screws (board anchors with suitable screw depending on the ceiling material)

Best Installation
900-1,200mm (3-3.9ft)

Installable
500-1,400mm (1.6-4.6ft)

Uninstallable within 500mm
(1.6ft)

Height Hmm

Install H mm away from object

Obstructing Object

Note: When an item (such as an exit sign) is obstructing the view of the sensor please install the sensor the same distance away from the object as the object height. Please see diagram.

5. Detection Area

There are two different height modes.

- **Standard** is for ceiling heights from 7.5 to 13.8 feet and has a detection area of up to 14.8 feet.
- **High** Mode will accommodates ceiling heights of 13.1 to 19.7 feet and has a detection area up to 13.1 feet.
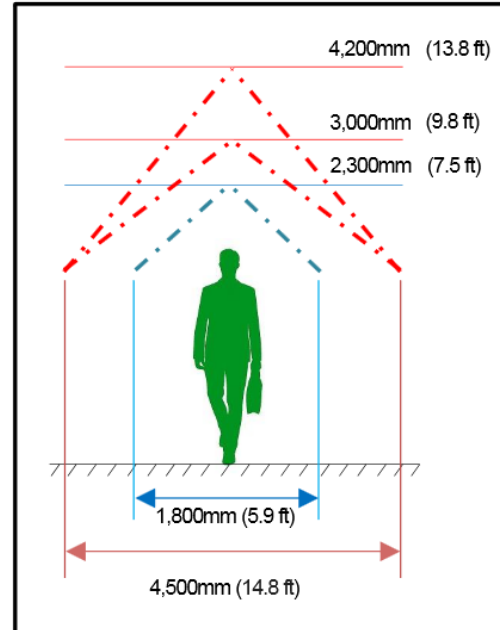
Ceiling height and Detection Area

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 (13.1 ft)	3,000mm (9.8 ft)
5,000mm (16.4 ft)	4,000mm (13.1 ft)
6,000mm (19.7 ft)	4,000mm (13.1 ft)

6. Routing of the Cables

Install the LAN cable into the sensor and route the wire as shown. If not running PoE install a 24V .5 amp DC power supply and route the wire as shown in the picture below.

7. Web Configuration

The default IP address of the sensor unit is set as [192.168.0.249] for initial setup, change the Setup PC IP Address to the same range as the default address. Example 192.168.0.250 etc. Connect the Setup PC and Sensor directly (via PoE injector).

Network Settings must be completed before connecting the sensor to the End Users Network.

8. Login Screen

For initial setup, enter the default IP address http://192.168.0.249 into your web browser. The Login screen will appear.

There are two types of login available:

1. User login = access limited to Sensor Status and Count Check menus only
2. Administrator login = Access to all menus, Sensor status and various basic sensor settings

Default passwords for the logins:

1. User login = user
2. Administrator login = admin

Note: For configuration of the sensor you will need to use the Administrator login.

9. Configuration Options

Settings pages are sorted by tabs on the top of the page:

Tab Name	Details	Remarks
Sensor Status	● Sensor Status For checking sensor information, sensor status, network information	Authority level: User/ Administrator
Count Monitor	● Count Monitor Count check menu	
LAN Settings	● LAN Settings Setup IP address, subnet mask, default gateway, DNS Server	Authority level: Administrator
Time Settings	● Time Settings For VC-1020 time adjustment, set SNTP, select time zone	
Count Settings	● Count Settings Setup Installation height, IN Direction, Count Area, Optional settings	
FTP Settings	● FTP Settings Setup when FTP data transfer is required. The sensor can transfer data directly from VC-1020 to FTP Server. Setup Data ID, FTP Parameters, Server Connection, FTP Transfer operation timing etc.	
Streaming Settings	● Video Streaming Settings Enables video streaming to a designated PC.	
Password Settings	● Password Settings Use to change the User or Administrator password. * Please have the administrator of the counting system change the password.	
Advanced	● Settings Import/Export ● Save or upload Count settings or FTP settings ● Installation Mode Settings Select the Installation Height Mode [Standard/High Mount] *License key is separately required to activate High mode.	
Logout	● Logout Logout of Web settings page	Authority level: User/ Administrator

10. Sensor Status Settings

Click on Sensor status tab, once a connection with sensor is made the current sensor unit information and sensor status will be displayed.

- **Sensor** – shows: sensor information, Model Number, Serial Number and Firmware Version.
- **Status** – shows: current date/time/time zone, status of unit, processing load, and memory usage.

UNIT	STATUS
GOOD	NORMAL
INIT	INITIALIZING
ERROR	UNIT ERROR
FAILED:X	OTHER ERRORS "X" will indicate a certain error code
CAMERA	STATUS
GOOD	NORMAL
UNCONNECT	CAMERA DISCONNECT
FAILED:L	LOW LUM (not enough light)
FAILED:X	ERROR "X" will indicate a certain error code

- **Wired Network**- shows: current IP address, Subnet mask, default gateway, DNS, and MAC Address.
- Click on save LAN Settings

After all settings have been completed the following message will appear at the top of the screen

* After the IP Address has been changed, logout or close the browser and enter the new IP address in the IE address bar and re-login to the web settings page. Refer to 5. Activating VC-1020 Web Settings

11. Network Settings

Click on Network Settings Tab

- **LAN Settings**
  - **MAC address** displays the MAC address registered to the sensor (cannot be changed).
  - **IP Address**
  - **Subnet Mask**
  - **Default Gateway**
  - **DNS Server**- Enter Domain Name server when domain name is used for SNTP or FTP address.
- **Server Settings**- these settings cannot be changed.

12. Time Settings (Time Adjustment/Time Zone)

Click on the Time Settings tab, the time menu will appear.

! Change the time and time zone only during the initial setup. When changing the time and time zone of the sensor unit, there might be a possibility that the system will be severely affected. Thus, before making any necessary change(s), it is essential to ensure that the system will not be affected by changing the time.

- **Present Time** – shows the current time and time zone of the Sensor Unit and the connected PC.
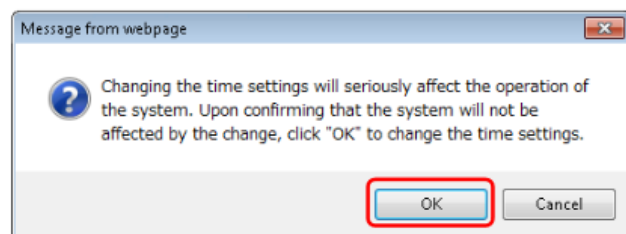- **Time settings**
  - o SNTP Address – Enter the SNTP Address (IP address or hostname) to sync the sensor unit clock
  - o Update – specify the time to connect to the SNTP address
  - o Time Zone select the time zone of the location where the sensor is installed from the pull down menu. By default the time zone is set to UTC 0000
  - o Time adjustment – check and adjust the time for initial setup, or when the time lags occur by ticking on the [Adjust Time (Sync with PC)] box, ** be sure to check that the PC's clock is accurate.
- **Save settings to Sensor**
  - o Click **[Save Time Settings]** button to save the settings
  - o The message below will appear on the screen. Please confirm that the time change will not affect the system. After Confirmation please click **[OK].**

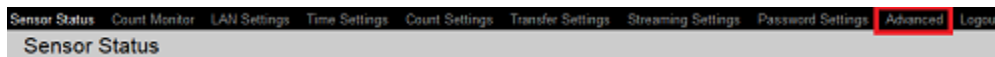When the settings are saved to the sensor unit, the message below will appear on the screen.

Automatic Time Setting (sync with PC) completed.
Sensor clock adjustment complete.
Setup Complete

or

Setup Complete

13. After All Settings Are Finalized

From the Menu click on advanced.

Sensor Status   Count Monitor   LAN Settings   Time Settings   Count Settings   Transfer Settings   Streaming Settings   Password Settings   Advanced   Logout
Sensor Status

You will need to run the Count Clear Buffer option. This will establish a new starting point for the sensor.

Installation Mode Settings

| License Key | License key is already registered. |
| Installation Mode | ⦿ Standard Mode (Height 2.3 - 4.2m / 7.54-13.77 ft.)
○ High Mode (Height 4.0 - 6.0m / 13.12-19.68 ft.)
Save Settings |

Count Buffer Clear

| Count Buffer Clear | Clear |

Auto Sensor Reset

| Reset | ⦿ Disable / ○ Firmware / ○ Hardware |
| Time(hhmm) | 0000 |

Save Reset Settings

13. Contact Information

Traf-Sys Inc.

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Toll Free: 1-888-815-6568

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