Panasonic
BUSINESS

System Design Tool Operation Guide

Ver. 2.50

Panasonic i-PRO Sensing Solutions Co., Ltd.

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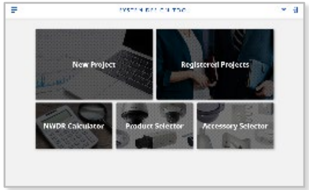
Disclaimer

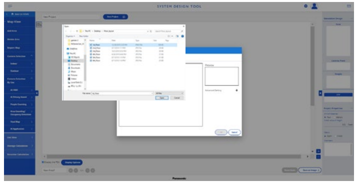
Operation Flow

1. Access/Log-in


New Project
Registered Projects
NWDR Calculator
Product Selector
Accessory Selector

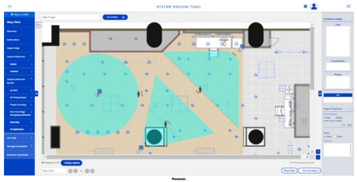
- Main Page
- User Registration*1
- Log-in*2
- Create New Project
- Edit Saved Project*2

2. Import Map


SYSTEM DESIGN TOOL

- Import Map/Floor Plan
- Scale Adjustment
- Set Unit of Length (meter or feet)
- Set Initial Height

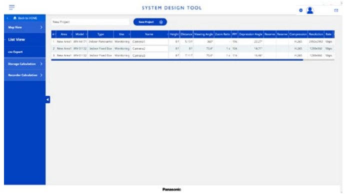
3. Camera Placement


SYSTEM DESIGN TOOL

- Camera Placement
- Select Camera
- Parameter Adjustment
- Adjust Viewing Angle and Object Distance
- Export Plan as Image

Repeat the steps above until completion.

4. List/Calculation


SYSTEM DESIGN TOOL

- Camera List View
- Export List View
- Storage Calculation
- Recorder Calculation
- Export Calc. Result
- Save Project*2

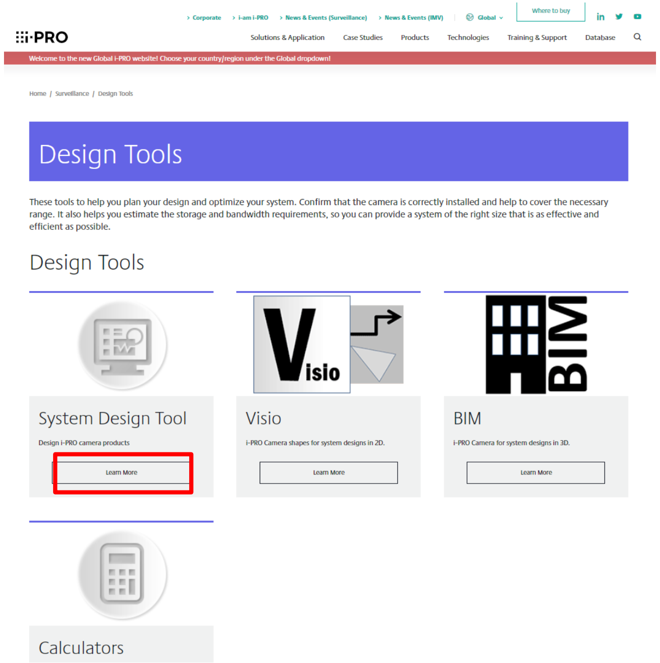
*1 Required for saving projects.
*2 Save/edit created project is available only while signed-in.

1. Access / Log-in

1-1. Access to System Design Tool (Use a Panasonic brand camera)

a) Access from the global site (https://i-pro.com/global/en/surveillance/tools/)
Design Tools > System Design Tool

b) Directly access to the site with below URL:
https://i-pro.com/global/en/surveillance/tools/sdt



› Corporate
› i-am i-PRO
› News & Events (Surveillance)
› News & Events (IMV)
Global
Where to buy
i-PRO
Solutions & Application
Case Studies
Products
Technologies
Training & Support
Database
Welcome to the new Global i-PRO website! Choose your country/region under the Global dropdown!
Home / Surveillance / Design Tools
Visio
BIM
Learn More
Learn More
Learn More

Design Tools

These tools to help you plan your design and optimize your system. Confirm that the camera is correctly installed and help to cover the necessary range. It also helps you estimate the storage and bandwidth requirements, so you can provide a system of the right size that is as effective and efficient as possible.

Design Tools

System Design Tool

Design i-PRO camera products

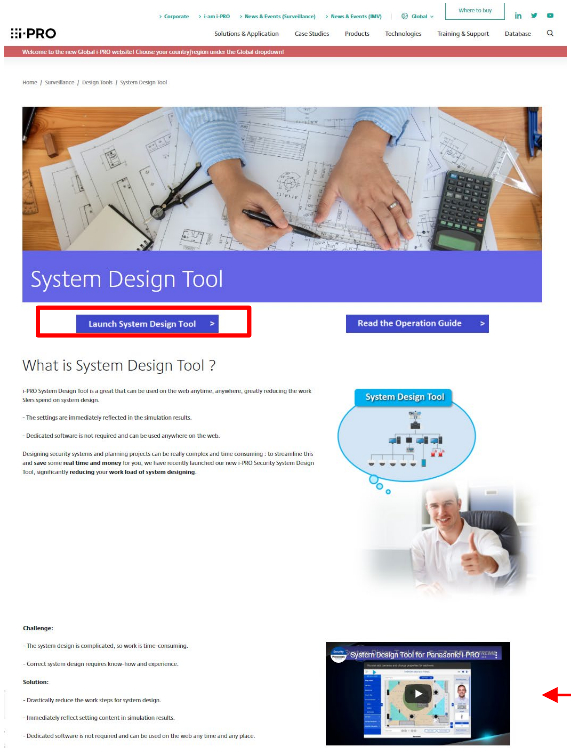
Visio

i-PRO Camera shapes for system designs in 2D.

BIM

i-PRO Camera for system designs in 3D.

Calculators



› Corporate
› i-am i-PRO
› News & Events (Surveillance)
› News & Events (IMV)
Global
Where to buy
i-PRO
Solutions & Application
Case Studies
Products
Technologies
Training & Support
Database
Welcome to the new Global i-PRO website! Choose your country/region under the Global dropdown!
Home / Surveillance / Design Tools / System Design Tool
Launch System Design Tool >
Read the Operation Guide >
System Design Tool
System Design Tool for Panasonic i-PRO

System Design Tool

What is System Design Tool ?

i-PRO System Design Tool is a great that can be used on the web anytime, anywhere, greatly reducing the work SIers spend on system design.

- The settings are immediately reflected in the simulation results.

- Dedicated software is not required and can be used anywhere on the web.

Designing security systems and planning projects can be really complex and time consuming : to streamline this and **save** some **real time and money** for you, we have recently launched our new i-PRO Security System Design Tool, significantly **reducing** your **work load of system designing**.

Challenge:

- The system design is complicated, so work is time-consuming.

- Correct system design requires know-how and experience.

Solution:

- Drastically reduce the work steps for system design.

- Immediately reflect setting content in simulation results.

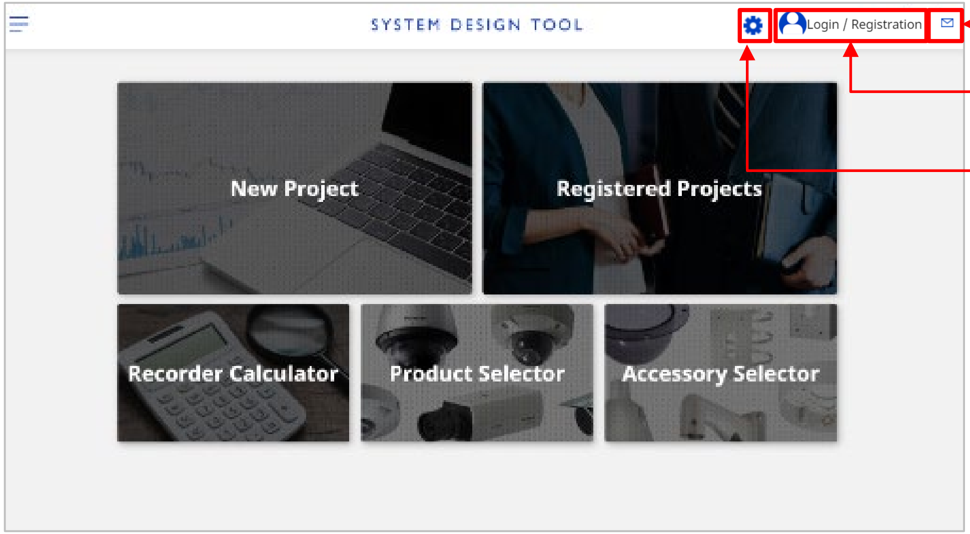
- Dedicated software is not required and can be used on the web any time and any place.

Introduction movie

1. Access / Log-in

1-2. Main Menu

New Project - Create new project
Registered Projects - Access to the projects already created
Recorder Calculator - Link for the NWDR Calculator tool (access to global site)
Product Selector - Link for the Product Selector page (access to global site)
Accessory Selector - Link for the Accessory Selector page (access to global site)


SYSTEM DESIGN TOOL
Login / Registration
New Project
Registered Projects
Recorder Calculator
Product Selector
Accessory Selector

Contact e-mail (for questions)

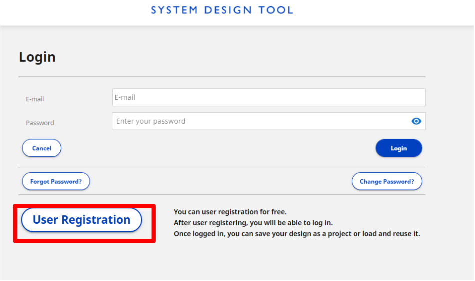
Log-in / Registration (refer to page. 6)

Account Setting (only for log-in use)

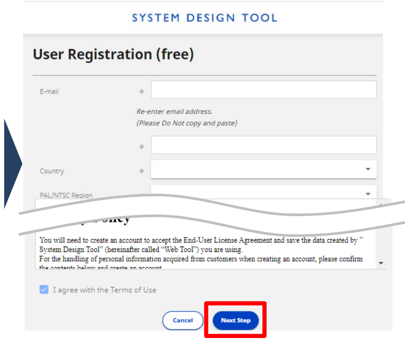
1. Access / Log-in

1-3. User Registration

Click login icon on the main page.
Then click “User Registration” button to open the registration form.
After entering the form, the system will automatically send e-mail to complete the registration.


SYSTEM DESIGN TOOL
Login
E-mail
E-mail
Password
Enter your password
Cancel
Login
Forgot Password?
Change Password?
User Registration

You can user registration for free.
After user registering, you will be able to log in.
Once logged in, you can save your design as a project or load and reuse it.

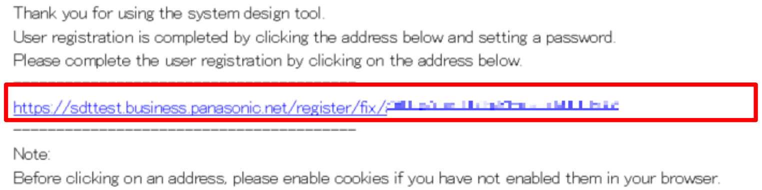

SYSTEM DESIGN TOOL
User Registration (free)
E-mail
*
*
Country
*
PAL/NTSC Region
Cancel
Next Step

Re-enter email address.
(Please Do Not copy and paste)

You will need to create an account to accept the End-User License Agreement and save the data created by ” System Design Tool” (hereinafter called “Web Tool”) you are using.
For the handling of personal information acquired from customers when creating an account, please confirm the contents below and create an account.

☑ I agree with the Terms of Use

Confirmation e-mail (Example)



Thank you for using the system design tool.
User registration is completed by clicking the address below and setting a password.
Please complete the user registration by clicking on the address below.
----
https://sdttest.business.panasonic.net/register/fix/[redacted]

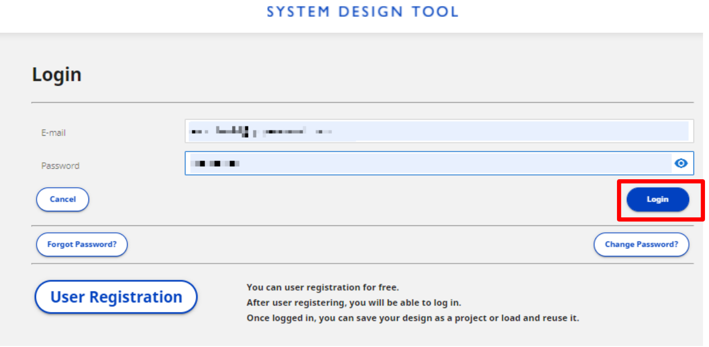
Note:
Before clicking on an address, please enable cookies if you have not enabled them in your browser.

https://sdt.business.panasonic.net/register/input
You can register using a smartphone.

1-4. Log-in

Click “Login” with ID (your e-mail) and password.

* You can use the tool itself without user registration.
Without registration, you cannot save created projects in this site.


SYSTEM DESIGN TOOL
Login
E-mail
Password
Cancel
Login
Forgot Password?
Change Password?
User Registration

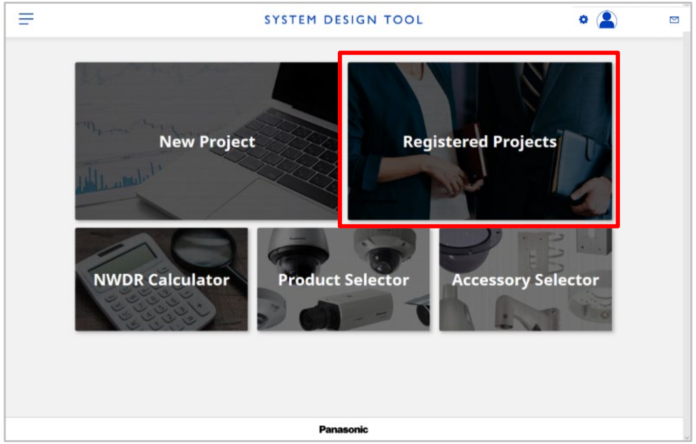
E-mail [redacted]
Password [redacted]

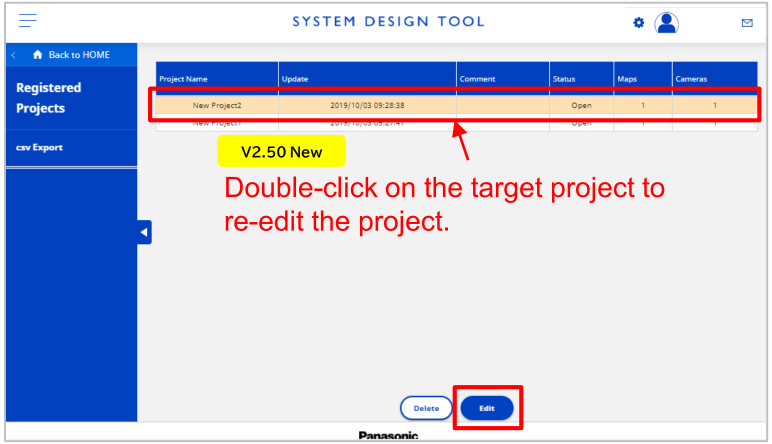
You can user registration for free.
After user registering, you will be able to log in.
Once logged in, you can save your design as a project or load and reuse it.

1. Access / Log-in

1-5. Restart Created Project

Created projects are stored under the “Registered Projects” page.
To re-edit those projects, please double-click the target project or press the “Edit" button in the page.

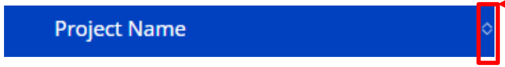

SYSTEM DESIGN TOOL
New Project
Registered Projects
NWDR Calculator
Product Selector
Accessory Selector
Panasonic


SYSTEM DESIGN TOOL
Back to HOME
Registered Projects
csv Export
Delete
Edit
Panasonic

Project Name	Update	Comment	Status	Maps	Cameras
New Project2	2019/10/03 09:28:38		Open	1	1
New Project1	2019/10/03 09:27:47		Open	1	1

V2.50 New

Double-click on the target project to re-edit the project.

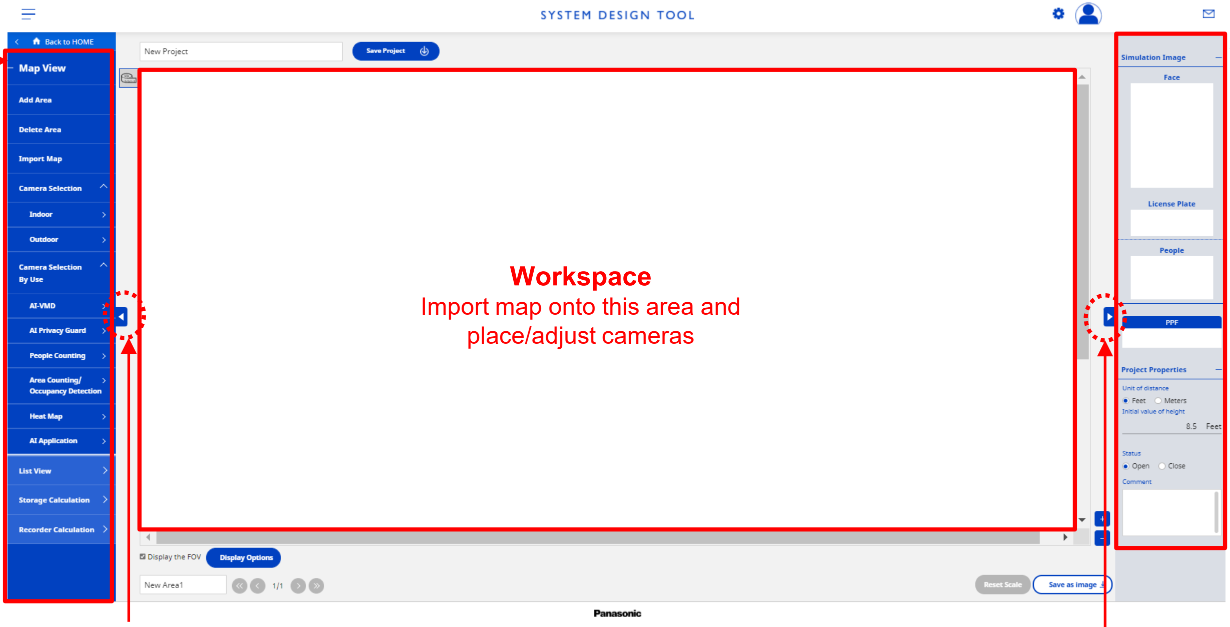

Project Name

Can sort of the items with this mark.

2. Import Map / Floor Plan

2-1. Map View Screen

This page has “Menu pane”, “Workspace”, and “Confirmation pane”.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Simulation Image
Face
License Plate
People
PPF
Project Properties
Comment
Panasonic

Unit of distance ● Feet ○ Meters

Initial value of height 8.5 Feet

Status ● Open ○ Close

Menu pane
Click for the following actions: Add/Delete Area, Import Map, Camera Selection, List View, and Storage Calculation

Workspace
Import map onto this area and place/adjust cameras

Confirmation pane
This pane will show reference images (Face, Plate, People) and # of PPF/PPM for guidance

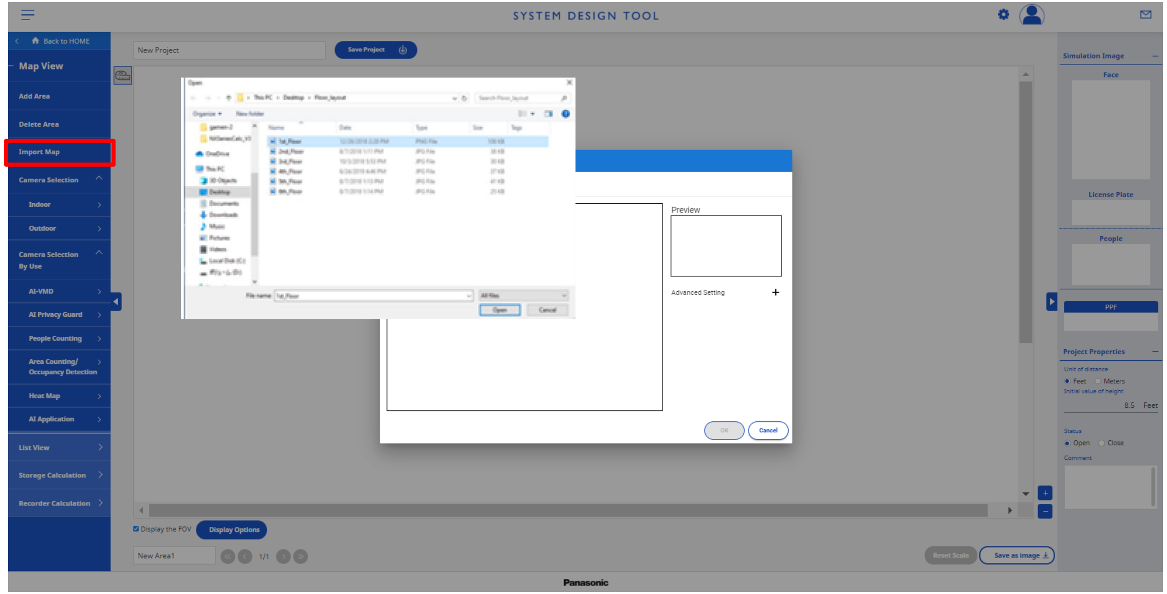
Hide/Unhide buttons for both Menu pane and Confirmation pane to enlarge Workplace

2. Import Map / Floor Plan

2-2. Importing Map / Floor Plan Image

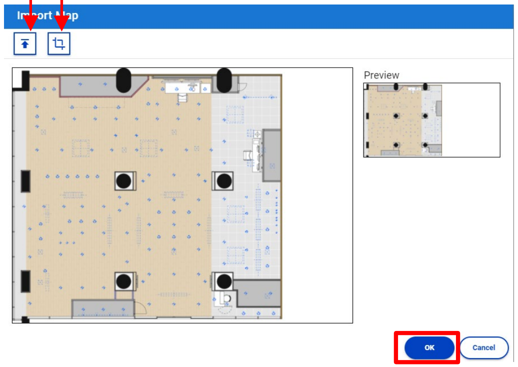
Click “Import Map” and select map image* from PC’s local folder to upload the map.
Can trimming the image as needed.

* Supported file format: PNG/JPG/BMP/PDF
Maximum file size: 5MB


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Open
Preview
Advanced Setting
OK
Cancel
Simulation Image
Face
License Plate
People
PPF
Project Properties
Unit of distance
Feet
Meters
Initial value of height
8.5 Feet
Status
Open
Close
Comment
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Panasonic

Import Map

Trimming Start


Import Map
Preview
OK
Cancel

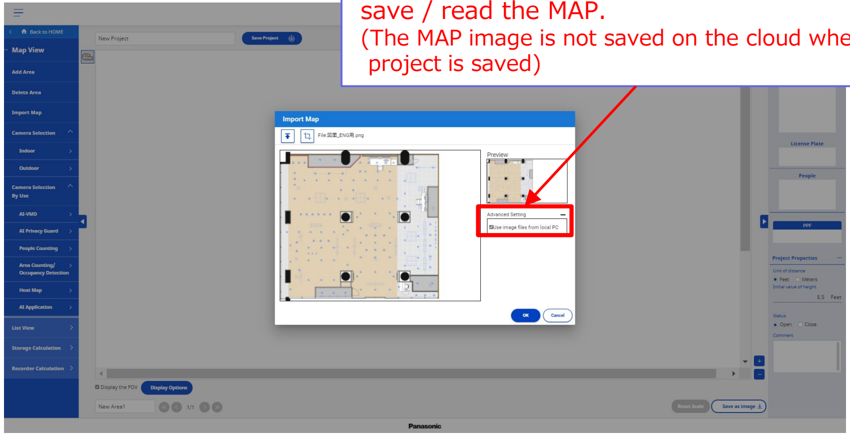
2. Import Map / Floor Plan

2-3. Read MAP image on local PC

By specifying and loading the MAP image saved on the local PC, it is possible to use the MAP image without being saved on the cloud.
* Supported file format: PNG/JPG/BMP/PDF

(1) Reading the first MAP

By enabling the check box from the advanced settings, Use the image file of the local PC to save / read the MAP.
(The MAP image is not saved on the cloud when the project is saved)


Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
License Plate
People
PPF
Project Properties
Display the FOV
Display Options
New Area1
Reset Scale
Save as image
Panasonic

Import Map

File:図面_ENG用.png

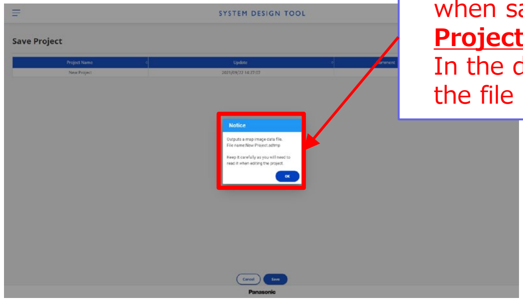
Preview

Advanced Setting

☑Use image files from local PC

OK Cancel

(2) Saving the project


SYSTEM DESIGN TOOL
Save Project
Project Name
Update
Comment
New Project
2021/09/22 14:27:07
Cancel
Save
Panasonic

Notice

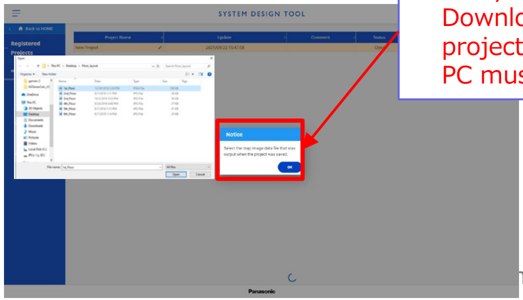
Outputs a map image data file.
File name:New Project.sdtmp

Keep it carefully as you will need to read it when editing the project.

OK

*Map image data of local PC when saving the project
Project name.sdtmp
In the download folder with the file name of it will be output.

(3) Restarting the project


SYSTEM DESIGN TOOL
Back to HOME
Registered Projects
Project Name
Update
Comment
Status
New Project
Open
Cancel
Panasonic

Notice

Select the map image data file that was output when the project was saved.

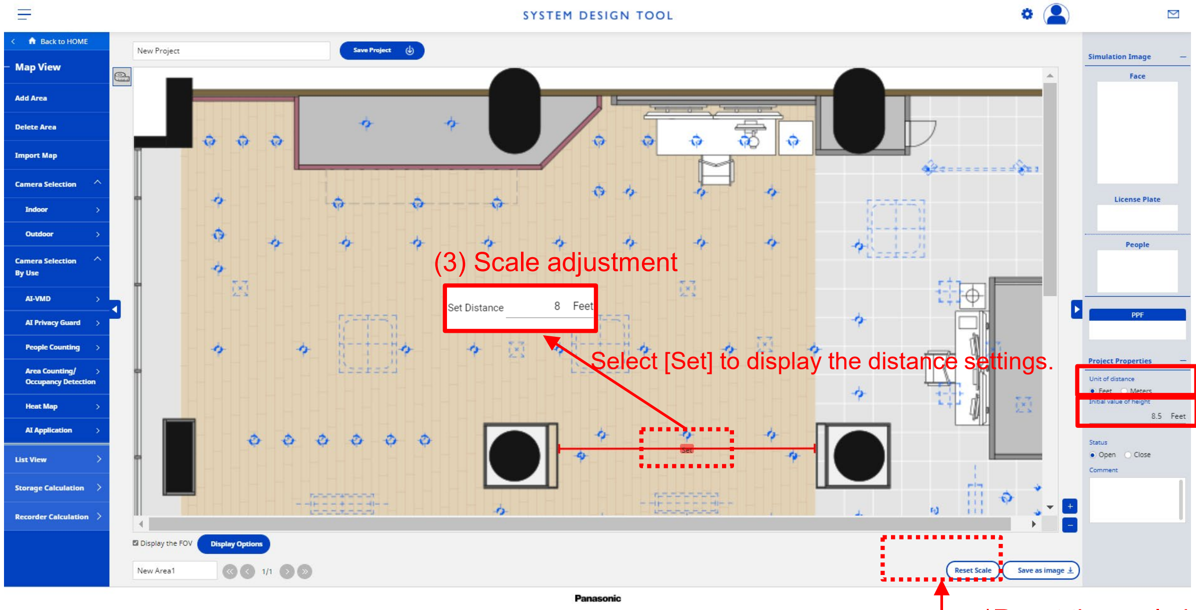
OK

* Every time the project resumes Downloaded when saving the project Map image data of local PC must be selected.

2. Import Map / Floor Plan

2-4. (1) Unit, (2) Camera Height, (3) Scale Adjustment

(1) Select unit of length (feet or meter)
(2) Set the initial value of camera height
(3) Adjust red bar and set the value of the bar length to adjust the map scale*
(4) Select [Set] on the red bar and set the distance.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Set
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Simulation Image
Face
License Plate
People
PPF
Project Properties
Comment
Panasonic

Set Distance 8 Feet

Unit of distance ● Feet ○ Meters

Initial value of height 8.5 Feet

Status ● Open ○ Close

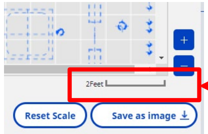
(3) Scale adjustment

Select [Set] to display the distance settings.

(1) Select unit of length

(2) Initial value of height

*Reset the scale is available with this button

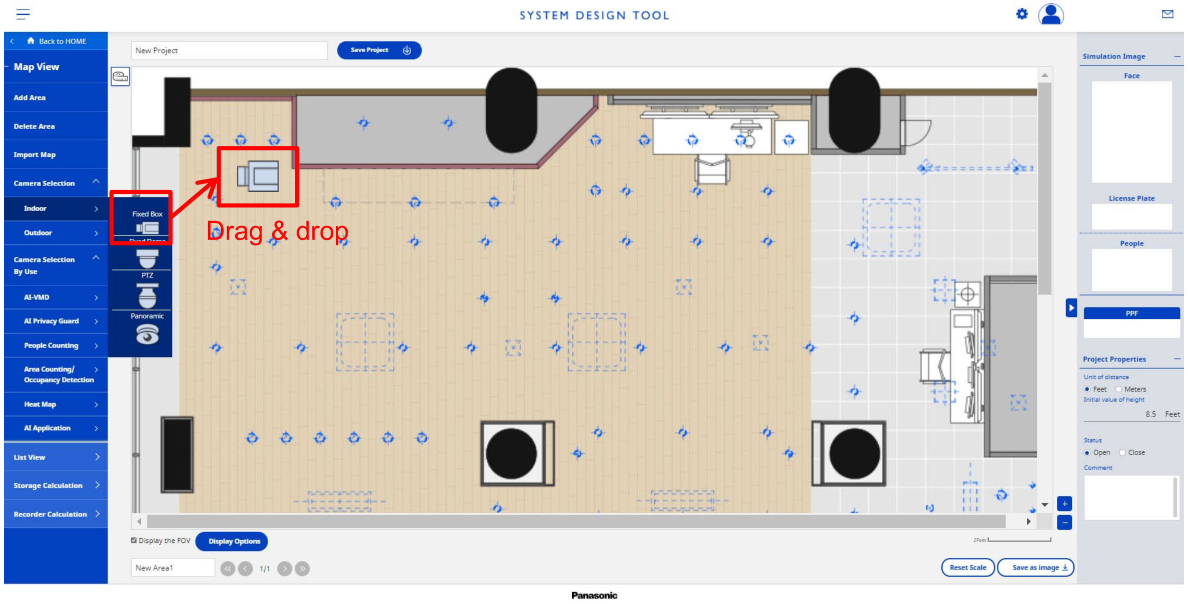

2Feet
Reset Scale
Save as image

When the scale setting is completed, the scale bar will be displayed.

3. Camera Placement / Arrangement

3-1. Select Camera and Place the Icon onto the Map

Select the camera from the menu pane and place (drag and drop) the camera icon onto the map.
* Shortcut key combination for copy (Ctrl + C) and paste (Ctrl + V) is also available.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Fixed Box
PTZ
Panoramic
Drag & drop
Save Project
Simulation Image
Face
License Plate
People
PPF
Project Properties
Comment
Display Options
Reset Scale
Save as image
Panasonic

New Project

Unit of distance ● Feet ○ Meters

Initial value of height 8.5 Feet

Status ● Open ○ Close

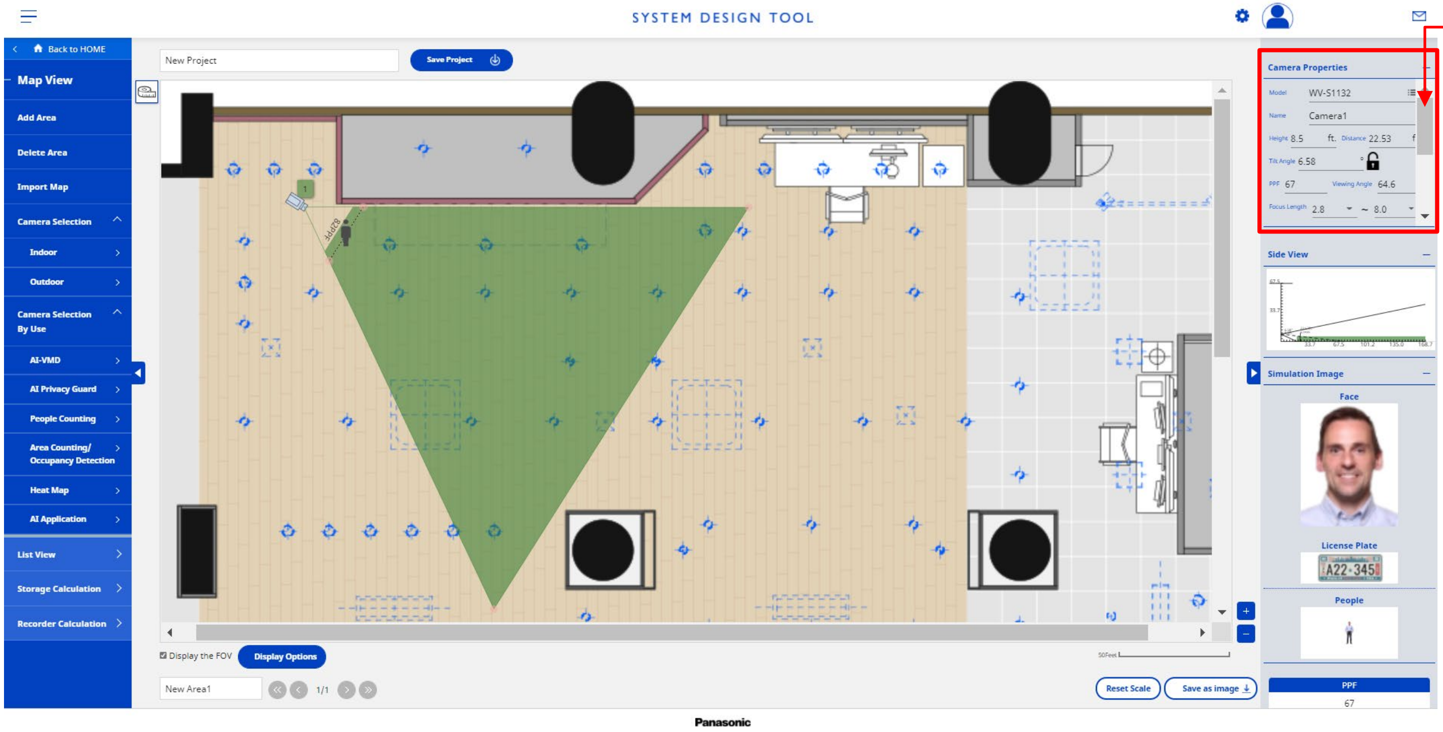
☑ Display the FOV

New Area1 1/1

3. Camera Placement / Arrangement

3-2. Parameter Adjustments/Settings for Each Camera

(1) Set the camera model and detailed settings in [Camera properties] that appears when select a camera. (Set the resolution etc.)


SYSTEM DESIGN TOOL
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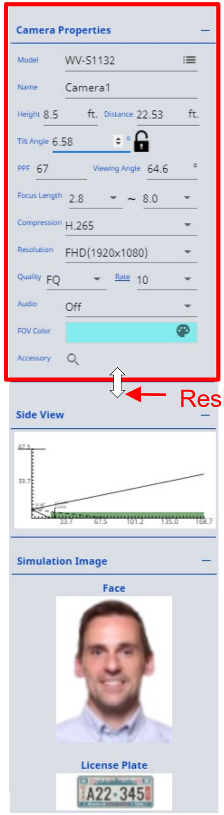
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Camera Properties
Side View
Simulation Image
Face
License Plate
A22-345
People
PPF
67
Panasonic

Scroll.


Camera Properties
Side View
Simulation Image
Face
License Plate
A22-345

Model WV-S1132
Name Camera1
Height 8.5 ft. Distance 22.53 ft.
Tilt Angle 6.58 °
PPF 67 Viewing Angle 64.6 °
Focus Length 2.8 ~ 8.0
Compression H.265
Resolution FHD(1920x1080)
Quality FQ Rate 10
Audio Off
FOV Color
Accessory

Resize.

3-3. Map display of Blind spot, PPM

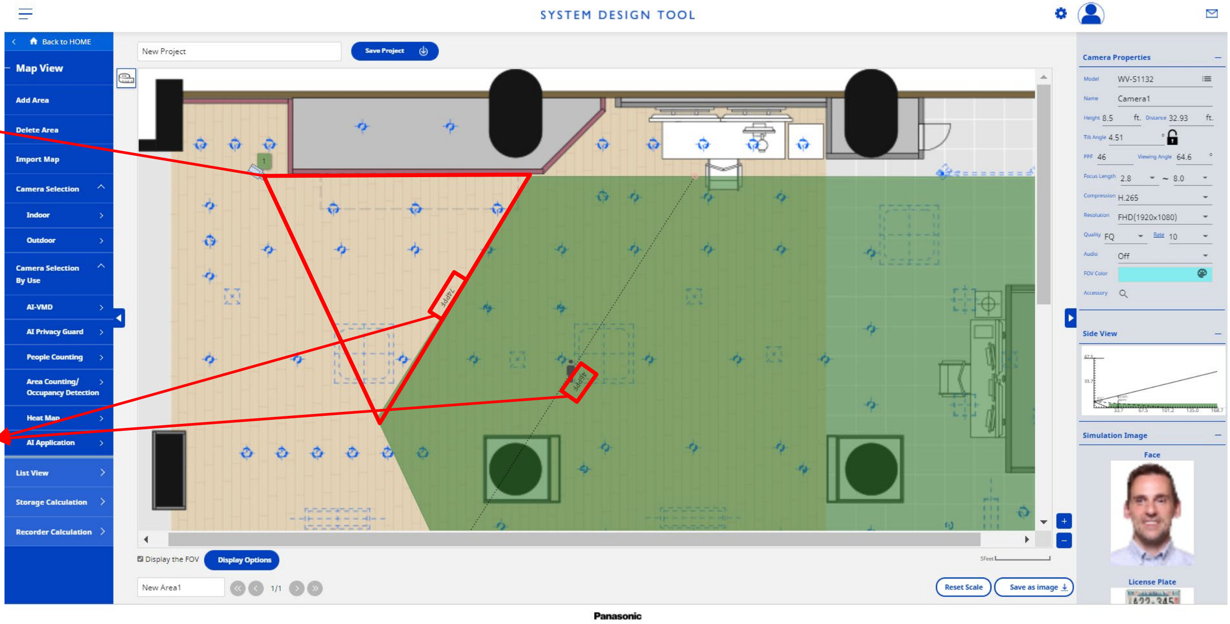
Areas in the camera image area where the entire image of the person is not captured are displayed as colorless spots as blind spots.
Also, the PPM is displayed at each position on the Map.

[Blind spot]
Human whole body (from head to toes) does not enter the camera image Area not recommended for shooting

[PPM]
①Select from [Camera Selection]
- Blind spot
- Subject

Display PPM at 2 points
②Select from [Camera selection (by application)]
- Blind spot
- Subject
- Recommended area
- Detectable area

Display PPM value at 4 points


SYSTEM DESIGN TOOL
Back to HOME
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AI Privacy Guard
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Reset Scale
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Simulation Image
Face
License Plate
Panasonic

New Project

New Area1

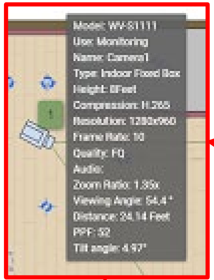
1/1

Model WV-S1132
Name Camera1
Height 8.5 ft. Distance 32.93 ft.
Tilt Angle 4.51 °
PPF 46 Viewing Angle 64.6 °
Focus Length 2.8 ~ 8.0
Compression H.265
Resolution FHD(1920x1080)
Quality FQ Rate 10
Audio Off
FOV Color
Accessory

3. Camera Placement / Arrangement

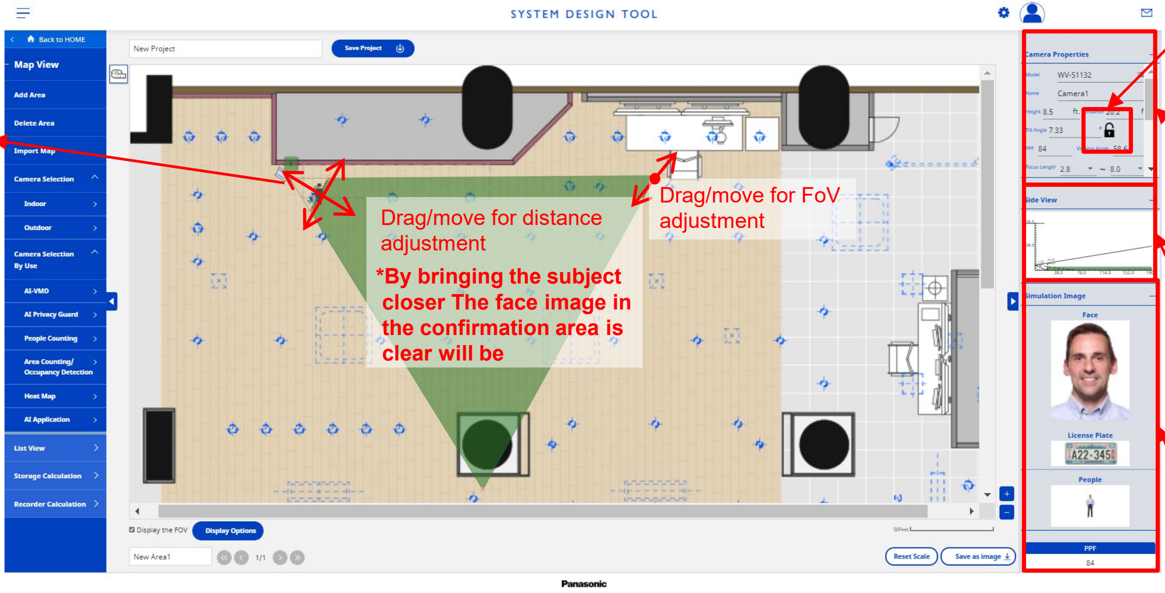
3-4. Adjusting the Viewing Angle and Distance of the Object

The viewing angle can be adjusted by dragging/moving the corner of the triangle.
The distance of the object can be adjusted by dragging/moving the person icon.
The confirmation pane will show reference images at the position of the person icon and viewing angle.



Model: WV-S1111
Use: Monitoring
Name: Camera1
Type: Indoor Fixed Box
Height: 8Feet
Compression: H.265
Resolution: 1280x960
Frame Rate: 10
Quality: FQ
Audio:
Zoom Ratio: 1.35x
Viewing Angle: 54.4°
Distance: 24.14 Feet
PPF: 52
Tilt angle: 4.97°

Detailed information will be shown as a tooltip


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Display Options
Reset Scale
Save as image
Side View
Simulation Image
Face
License Plate
A22-345
People
PPF
84
Panasonic

☑ Display the FOV

New Area1 1/1

Camera Properties
Model WV-S1132
Name Camera1
Height 8.5 ft. Distance 20.2
Tilt Angle 7.33 °
PPF 84 Viewing Angle 58.6
Focus Length 2.8 ~ 8.0

Drag/move for distance adjustment

*By bringing the subject closer The face image in the confirmation area is clear will be

Drag/move for FoV adjustment

When the depression angle is locked, it is always fixed even if the direction of the camera is changed.

Check / change the current height, distance and viewing angle (angle of view) in [Camera Properties].

Check the installation height, distance and depression angle of the camera as seen from the side in [Side view]

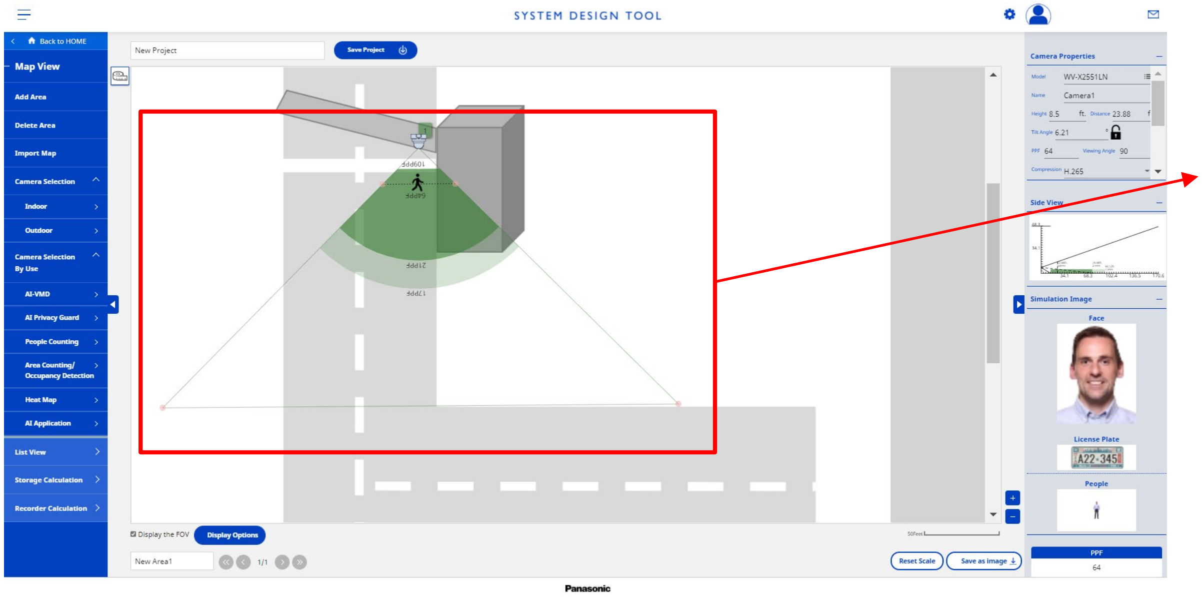
The confirmation pane will show reference images (face, plate, and people) and # of PPF/PPM for guidance*

* The information shown on this pane is simulated and for guidance use only.

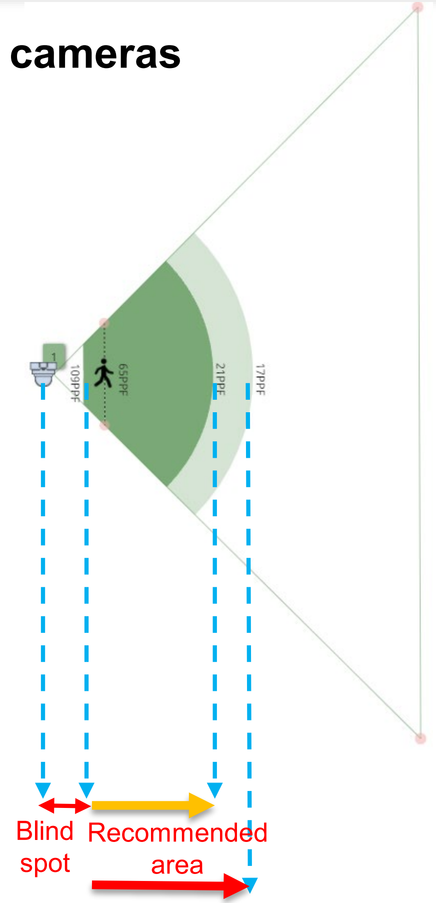
3. Camera Placement / Arrangement

3-5. Display of recommended areas and detectable areas of AI cameras

When an AI camera is selected from [Camera Selection By Use], the [Recommended] area and [Detectable] area are displayed in different colors.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
109PPF
65PPF
21PPF
17PPF
☑ Display the FOV
Display Options
New Area1
1/1
50Feet
Reset Scale
Save as image
Camera Properties
Side View
68.3
34.1
34.1
68.3
102.4
136.5
170.6
Simulation Image
Face
License Plate
A22·345
People
PPF
64
Panasonic

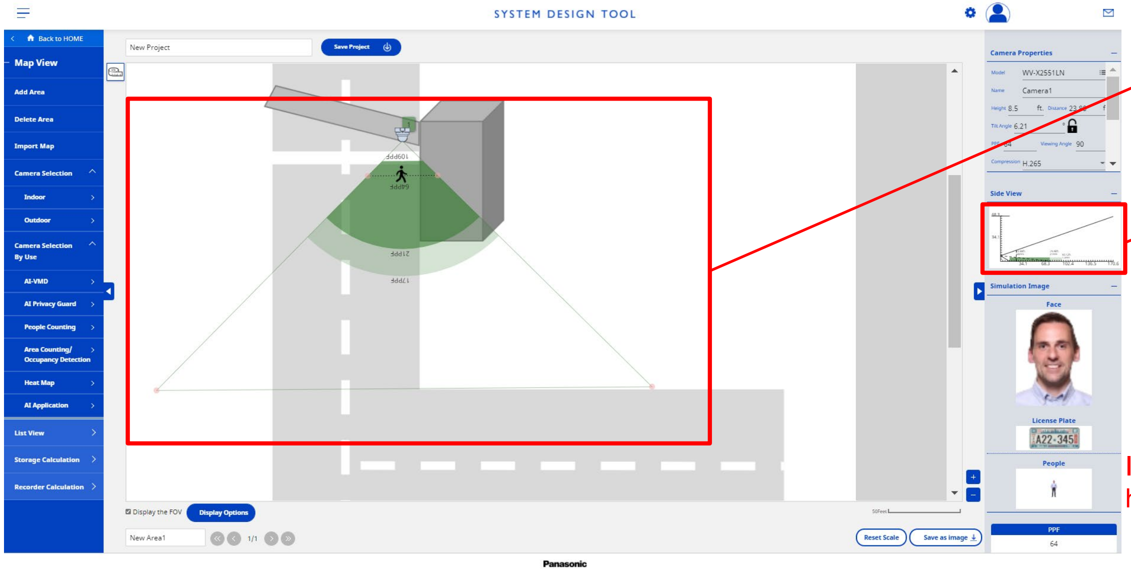
Model WV-X2551LN
Name Camera1
Height 8.5 ft. Distance 23.88 f
Tilt Angle 6.21 °
PPF 64 Viewing Angle 90
Compression H.265


109PPF
65PPF
21PPF
17PPF
Blind spot
Recommended area
Detectable area

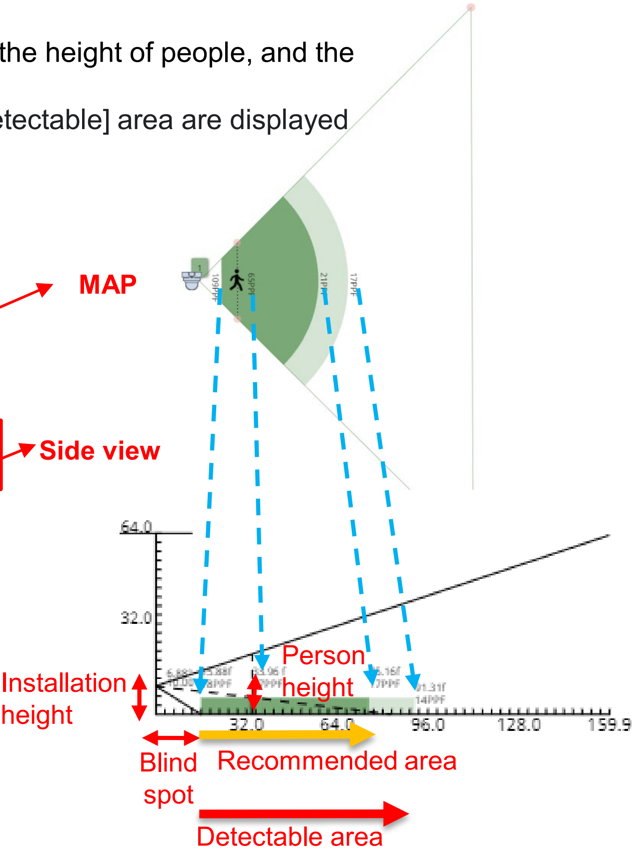
3. Camera Placement / Arrangement

3-6. Side view (vertical angle of view display)

[Side view] is displayed on the camera menu, and you can check the installation height, the height of people, and the imaging area division from the vertical direction.
When selected from [Camera Selection (By Use)], the [Recommended] area and the [Detectable] area are displayed separately.
When selected from [Camera Selection], the entire visible area is displayed.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
109PPF
65PPF
21PPF
17PPF
Camera Properties
Side View
Simulation Image
Face
License Plate
A22·345
People
PPF
64
Display the FOV
Display Options
New Area1
1/1
50Feet
Reset Scale
Save as image
Panasonic

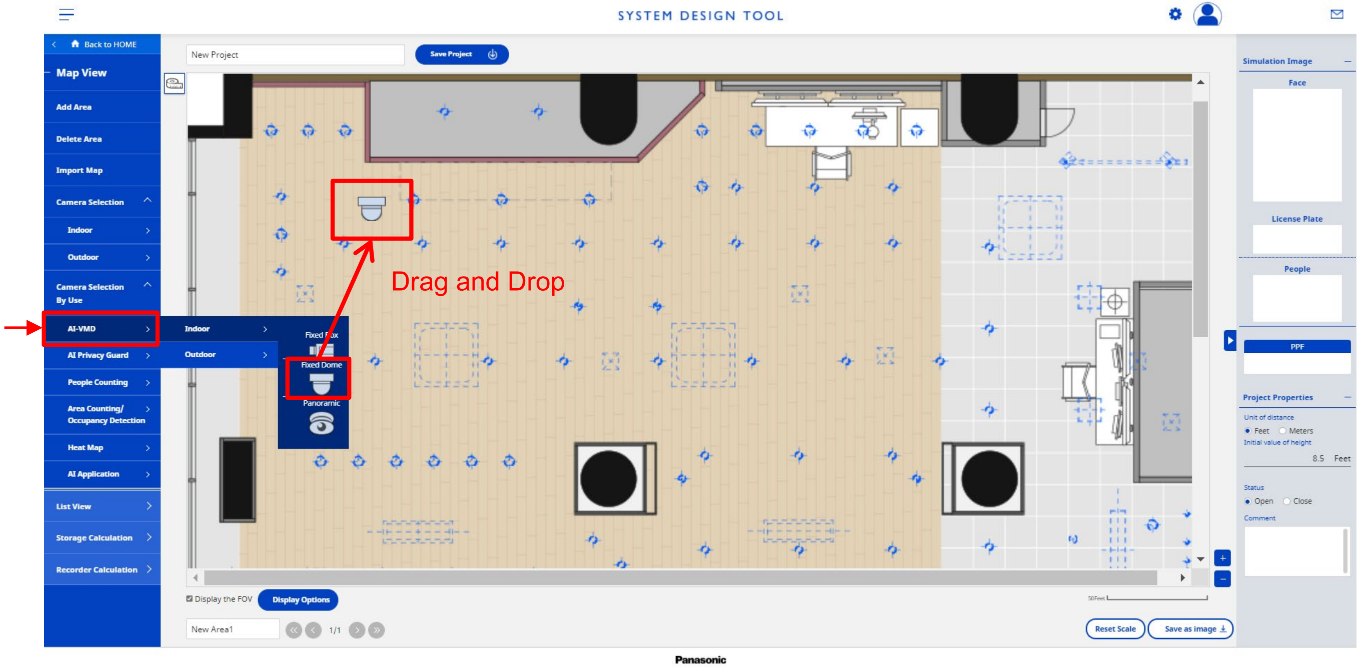
Model WV-X2551LN
Name Camera1
Height 8.5 ft. Distance 23.9
Tilt Angle 6.21 °
PPF 64 Viewing Angle 90
Compression H.265


MAP
Side view
109PPF
65PPF
21PPF
17PPF
64.0
32.0
32.0
64.0
96.0
128.0
159.9
Installation height
Person height
Blind spot
Recommended area
Detectable area

4. Camera Placement / Arrangement (AI-VMD)

4-1. Select Camera and Place the Icon onto the Map (By AI-VMD)

Select a camera from [AI-VMD] in "Camera Selection By Use" in the menu, and drag and drop it to the work area to place it.
By arranging according to usage, recommended AI function settings can be provided as guidance.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Indoor
Outdoor
Fixed Box
Fixed Dome
Panoramic
New Project
Save Project
Simulation Image
Face
License Plate
People
PPF
Project Properties
Unit of distance
● Feet ○ Meters
Initial value of height
8.5 Feet
Status
● Open ○ Close
Comment
☑ Display the FOV
Display Options
New Area1
1/1
50Feet
Reset Scale
Save as image
Panasonic

Camera selection by application

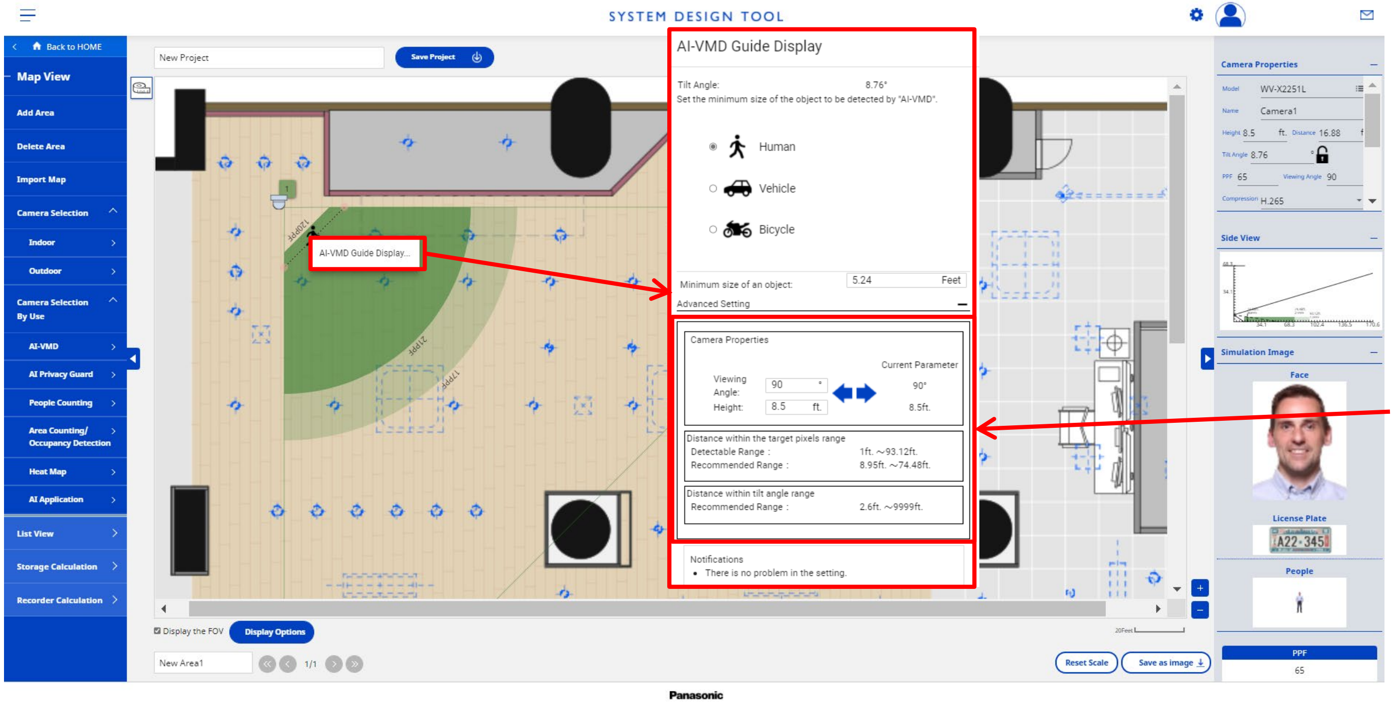
Drag and Drop

* Can copy the camera icon with "Ctrl + C" and paste it with "Ctrl + V".

4. Camera Placement / Arrangement (AI-VMD)

4-2. AI Guide Setting

Click the right mouse button on the shooting area icon to change the setting.
This setting is possible only for the cameras placed from [Camera selection by Use] [AI-VMD].



SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
AI-VMD Guide Display...
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Side View
Simulation Image
Face
License Plate
People
PPF
65
Panasonic

AI-VMD Guide Display

Tilt Angle: 8.76°
Set the minimum size of the object to be detected by "AI-VMD".

● Human
○ Vehicle
○ Bicycle

Minimum size of an object: 5.24 Feet

Advanced Setting

Camera Properties

		Current Parameter
Viewing Angle:	90 °	90°
Height:	8.5 ft.	8.5ft.

Distance within the target pixels range
Detectable Range : 1ft. ~93.12ft.
Recommended Range : 8.95ft. ~74.48ft.

Distance within tilt angle range
Recommended Range : 2.6ft. ~9999ft.

Notifications
- There is no problem in the setting.

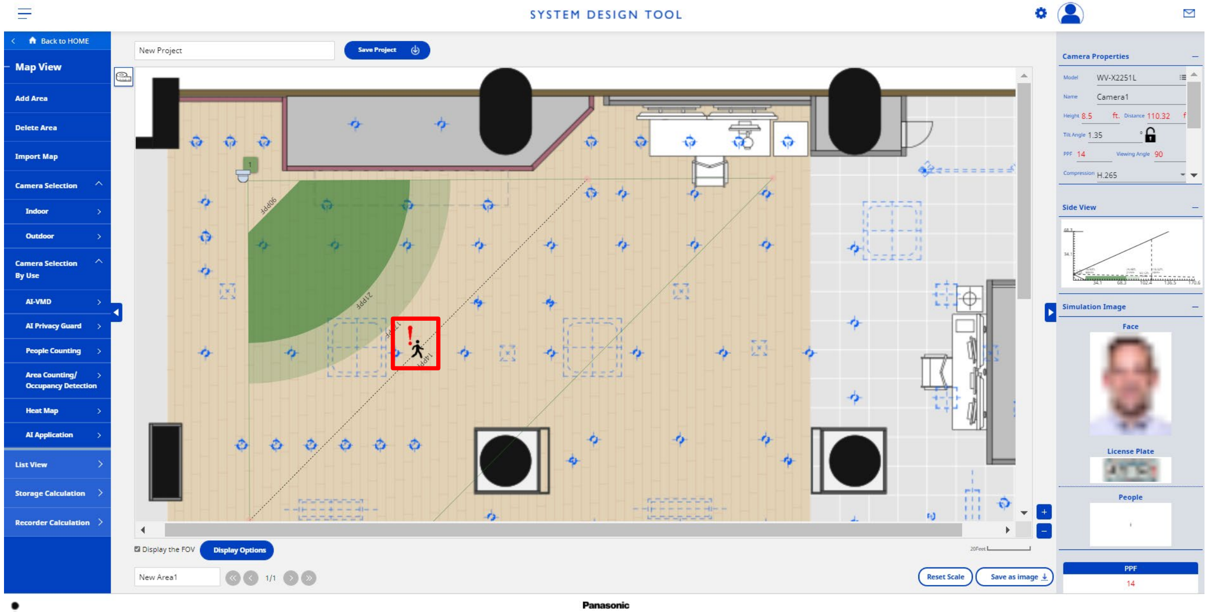
Camera Properties
Model WV-X2251L
Name Camera1
Height 8.5 ft. Distance 16.88
Tilt Angle 8.76 °
PPF 65 Viewing Angle 90
Compression H.265

[Advanced Setting]
Distance within the subject pixel count range (Detectable / Recommended) and recommended depression angle are displayed.

4. Camera Placement / Arrangement (AI-VMD)

4-3. AI Guide Display

If the installation conditions are not recommended, the subject icon will change.
The target of the guide display is only the cameras placed in [Camera Selection By Use].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Camera Properties
Side View
Simulation Image
Face
License Plate
People
PPF
14
Panasonic

Model WV-X2251L
Name Camera1
Height 8.5 ft. Distance 110.32
Tilt Angle 1.35 °
PPF 14 Viewing Angle 90
Compression H.265

🚶 When the icon of the object to be photographed is displayed like this, it is a recommended installation condition.

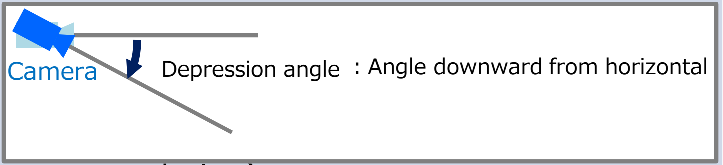
! 🚶 When the icon of the object to be photographed is displayed like this, it is not recommended installation condition.

! 🚶 When the icon of the object to be photographed is displayed like this, it is an installation condition that is not detected.

4. Camera Placement / Arrangement (AI-VMD)

4-4. Installation conditions for AI-VMD cameras

The following installation conditions are checked for cameras for AI-VMD.

Use	Icon	Camera installation conditions
AI-VMD	🚶 🚗 🏍	① Object detection size (shooting size) FHD Cameras : 1/12 – 1/2 of the vertical angle of view. 5M Cameras : 1/16 – 1/2 of the vertical angle of view. 4K Cameras : 1/24 - 1/4 of the vertical angle of view. Panoramic : Variable depending on the camera setting height. V2.50 New ② Camera depression angle 0°-45°  ③ Camera Setting Height(Recommendation) *Only AI Panoramic cameras 8.2ft - 16.4ft V2.50 New

🚶 🚗 🏍 When the shooting area icon is displayed like this, it is a recommended installation condition.

! When the shooting area icon is displayed like this, it is not recommended installation condition.

❗ When the shooting area icon is displayed like this, it is an installation condition that is not detected.

(Note) Guidance covers only some of the installation conditions.

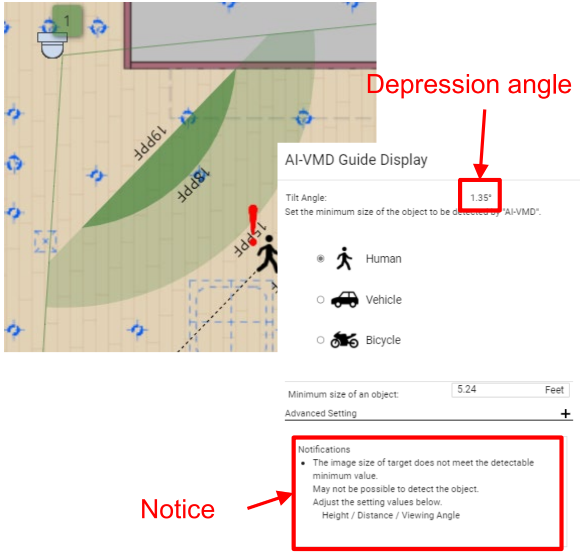
4. Camera Placement / Arrangement (AI-VMD)

4-5. Dealing with not recommended installation conditions

This is the workaround when the shooting area icon is displayed like this.

Notice	Workaround
The image size of target exceeds the recommended maximum value. May not be possible to detect the object. Adjust the setting values below. Height / Distance / Viewing Angle	-Increase the value of the Viewing Angle. -Increase the Distance value. -Increase the Height value
The image size of target does not meet the recommended minimum value. May not be possible to detect the object. Adjust the setting values below. Height / Distance / Viewing Angle	-Reduce the value of the Viewing Angle. -Reduce the Distance value. -Reduce the Height value.
Tilt angle of camera exceeds the recommended maximum value. May not be possible to detect the object. Recommended value 45 ° or less. Adjust the setting values below. Tilt angle or distance / mounting height	-Increase the Distance value. -Reduce the Height value.

(1) ❗Right button click on the icon.
(2) Select [AI-VMD Setting].
[Notice] is displayed.



Tilt Angle: 1.35°

Set the minimum size of the object to be detected by "AI-VMD".

● Human
○ Vehicle
○ Bicycle

Minimum size of an object: 5.24 Feet

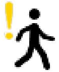
Notifications
- The image size of target does not meet the detectable minimum value.
  May not be possible to detect the object.
  Adjust the setting values below.
  Height / Distance / Viewing Angle

Depression angle

Notice

4. Camera Placement / Arrangement (AI-VMD)

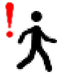
4-5. Dealing with not recommended installation conditions



This is the workaround when the shooting area icon is displayed like this.

Notice	Workaround
V2.50 New The installation height of the camera exceeds the recommended value. May not be possible to detect the object. Recommended installation height: 8.20 ft. or more 16.40 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 8.20 ft. or more 16.40 ft. or less. * Only for AI panoramic cameras.

4-5. Dealing with not recommended installation conditions



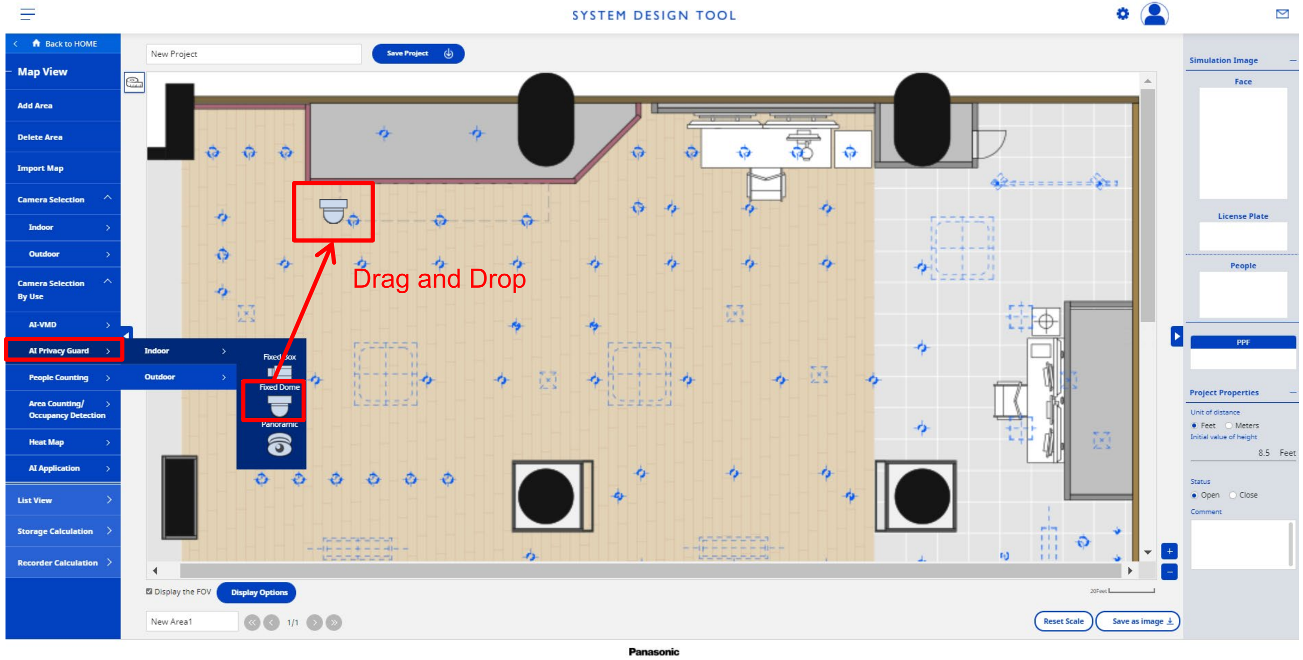
This is the workaround when the shooting area icon is displayed like this.

Notice	Workaround
The image size of target does not meet the detectable minimum value. May not be possible to detect the object. Adjust the setting values below. Height / Distance / Viewing Angle	-Reduce the value of the Viewing Angle. -Reduce the Distance value. -Reduce the Height value.
V2.50 New The camera exceeds the detectable value. May not be possible to detect the object. Detectable installation height: 19.68 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 19.68 ft. or less. * Only for AI panoramic cameras.

5. Camera Placement / Arrangement (AI Privacy Guard)

5-1. Select Camera and Place the Icon onto the Map (By AI Privacy Guard)

Select a camera from [AI Privacy Guard] in "Camera Selection By Use" in the menu, and drag and drop it to the work area to place it.
By arranging according to usage, recommended AI function settings can be provided as guidance.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Indoor
Outdoor
Fixed Box
Fixed Dome
Panoramic
New Project
Save Project
Simulation Image
Face
License Plate
People
PPF
Project Properties
Comment
20Feet
Display Options
New Area1
1/1
Reset Scale
Save as image
Panasonic

Unit of distance ● Feet ○ Meters

Initial value of height 8.5 Feet

Status ● Open ○ Close

☑ Display the FOV

Drag and Drop

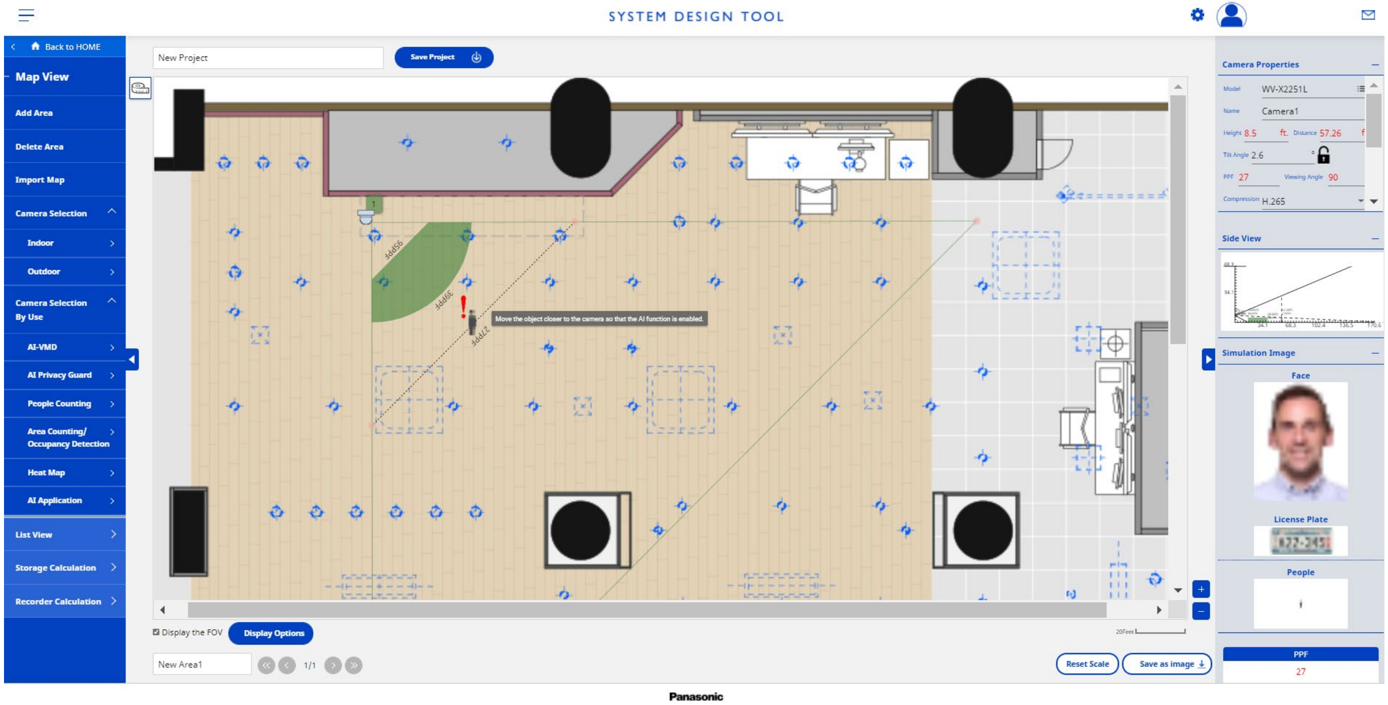
Camera selection by application

* Can copy the camera icon with "Ctrl + C" and paste it with "Ctrl + V".

5. Camera Placement / Arrangement (AI Privacy Guard)

5-2. AI Guide Display

If the installation conditions are not recommended, the subject icon will change.
The target of the guide display is only the cameras placed from [Camera Selection By Use].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
95PPF
39PPF
27PPF
Display the FOV
Display Options
20Feet
Reset Scale
Save as image
Camera Properties
Side View
Simulation Image
Face
License Plate
People
PPF
27
Panasonic

New Project

Move the object closer to the camera so that the AI function is enabled.

☑ Display the FOV

New Area1 1/1

Model WV-X2251L

Name Camera1

Height 8.5 ft. Distance 57.26 f

Tilt Angle 2.6 °

PPF 27 Viewing Angle 90

Compression H.265

5. Camera Placement / Arrangement (AI Privacy Guard)

5-3. Installation conditions for AI Privacy Guard cameras

The following installation conditions are checked for cameras for AI privacy guard.

Use	Icon	Camera installation conditions
AI Privacy Guard	🧍	①Object detection size (shooting size) 5M Cameras : 42 - 1866pxl 4K Cameras : 64 - 2800pxl Panoramic :Variable depending on the Image Capture Mode. V2.50 New ②Camera Setting Height(Recommendation) *Only AI Panoramic cameras 8.2ft - 16.4ft V2.50 New

- 🧍 When the shooting area icon is displayed like this, it is a recommended installation condition.
- ! When the shooting area icon is displayed like this, it is not recommended.
- ❗ When the shooting area icon is displayed like this, it is an installation condition that is not detected.

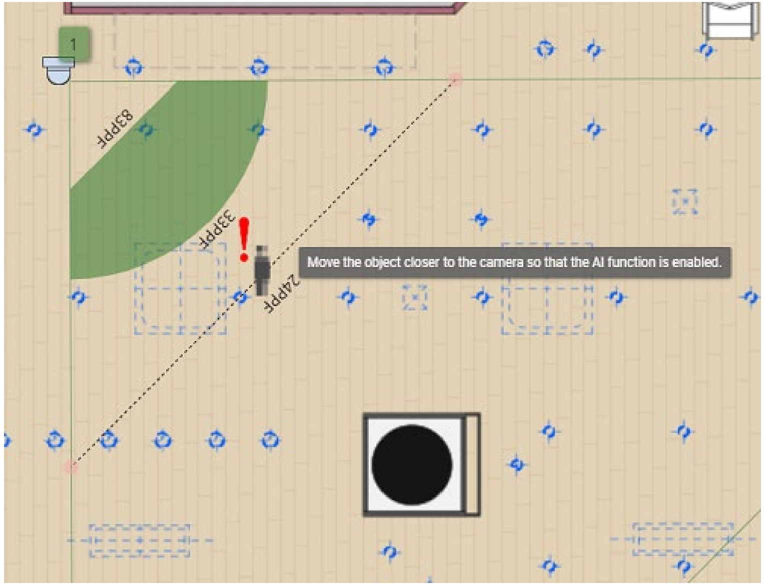
(Note) Guidance covers only some of the installation conditions.

5. Camera Placement / Arrangement (AI Privacy Guard)

5-4. Dealing with not recommended installation conditions

! This is the workaround when the shooting area icon is displayed like this.

Cause	Workaround
V2.50 New The installation height of the camera exceeds the recommended value. May not be possible to detect the object. Recommended installation height: 8.20 ft. or more 16.40 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 8.20 ft. or more 16.40 ft. or less. * Only for AI panoramic cameras.



Move the object closer to the camera so that the AI function is enabled.

5. Camera Placement / Arrangement (AI Privacy Guard)

5-4. Dealing with not recommended installation conditions

❗ This is the workaround when the shooting area icon is displayed like this.

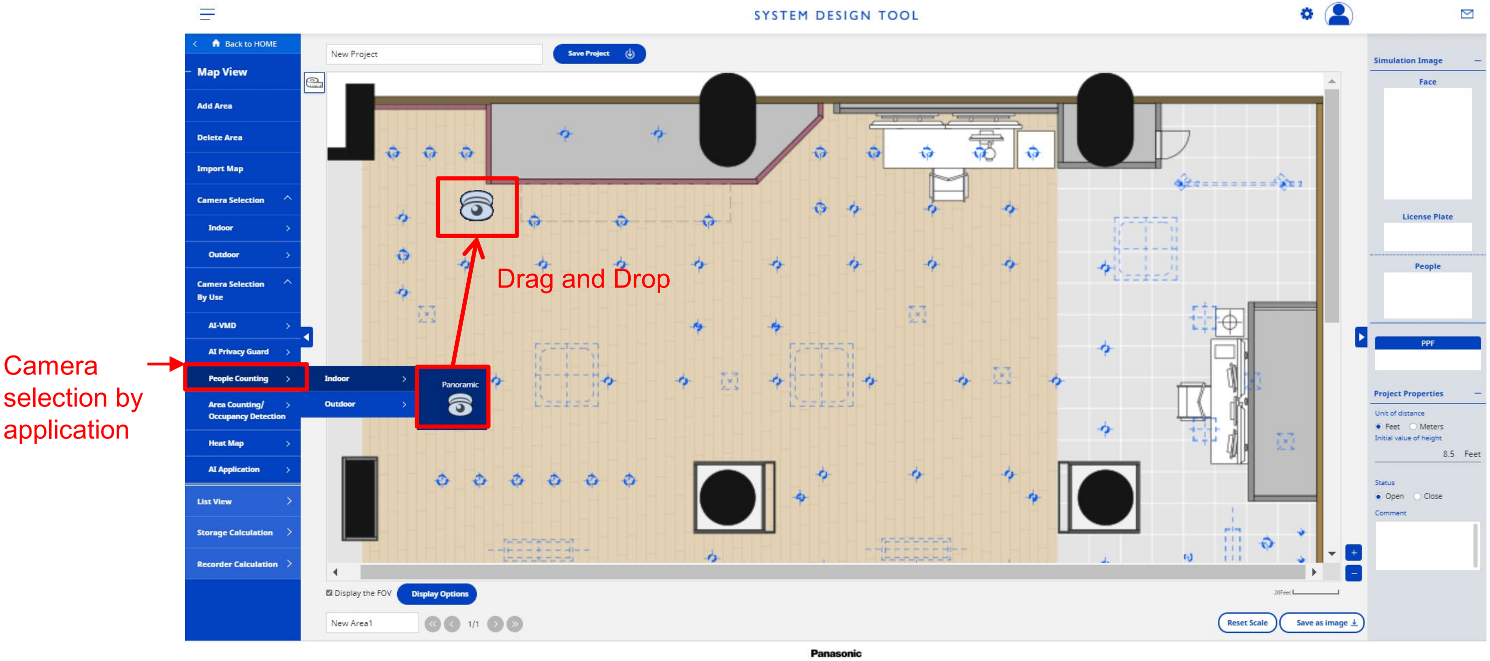
Cause	Workaround
The image size of target does not meet the recommended minimum value.	-Reduce the value of the Viewing Angle. -Reduce the Distance value. -Reduce the Height value.
V2.50 New The camera exceeds the detectable value. May not be possible to detect the object. Detectable installation height: 19.68 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 19.68 ft. or less. * Only for AI panoramic cameras.

V2.50 New

6. Camera Placement / Arrangement (People Counting)

6-1. Select Camera and Place the Icon onto the Map (By People Counting)

Select a camera from [People Counting] in "Camera Selection By Use" in the menu, and drag and drop it to the work area to place it.
By arranging according to usage, recommended AI function settings can be provided as guidance.



SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Indoor
Outdoor
Panoramic
New Project
Save Project
Drag and Drop
Camera selection by application
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Simulation Image
Face
License Plate
People
PPF
Project Properties
Unit of distance
Feet
Meters
Initial value of height
8.5
Feet
Status
Open
Close
Comment
Panasonic

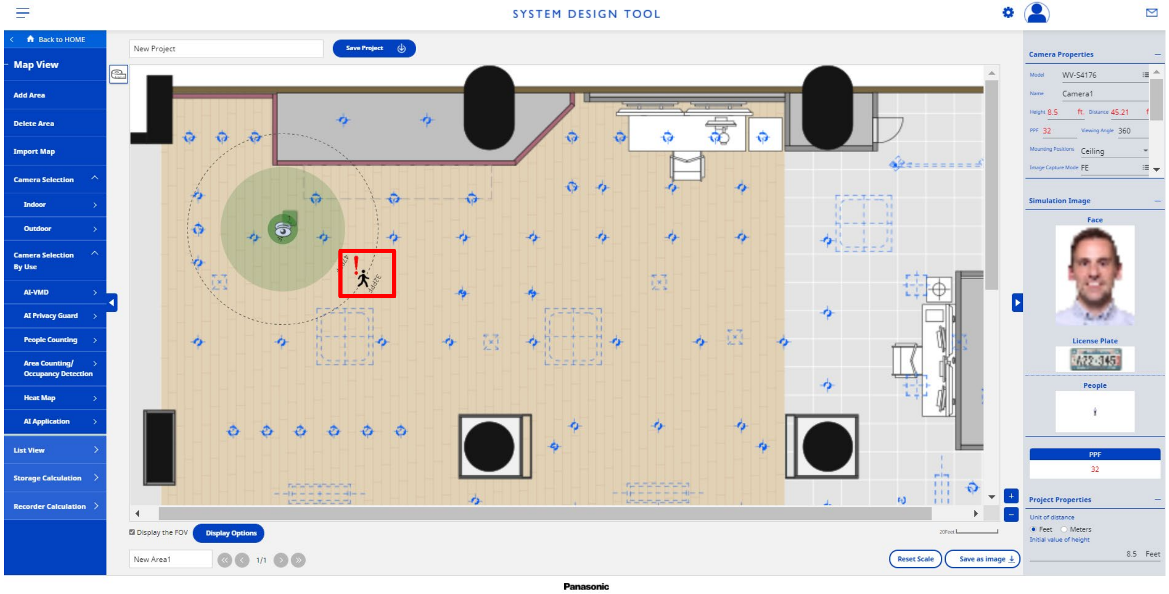
＊ Can copy the camera icon with "Ctrl + C" and paste it with "Ctrl + V".

V2.50 New

6. Camera Placement / Arrangement (People Counting)

6-2. AI Guide Display

If the installation conditions are not recommended, the subject icon will change.
The target of the guide display is only the cameras placed in [Camera Selection By Use].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Display the FOV
Display Options
New Area1
1/1
20Feet
Reset Scale
Save as image
Camera Properties
Simulation Image
Face
License Plate
People
Project Properties
Panasonic

Model WV-S4176
Name Camera1
Height 8.5 ft. Distance 45.21
PPF 32 Viewing Angle 360
Mounting Positions Ceiling
Image Capture Mode FE

PPF 32

Unit of distance ● Feet ○ Meters
Initial value of height 8.5 Feet

When the icon of the object to be photographed is displayed like this, it is a recommended installation condition.

! When the icon of the object to be photographed is displayed like this, it is not recommended installation condition.

! When the icon of the object to be photographed is displayed like this, it is an installation condition that is not detected.

V2.50 New

6. Camera Placement / Arrangement (People Counting)

6-3. Installation conditions for People Counting cameras

The following installation conditions are checked for cameras for People Counting.

Use	Icon	Camera installation conditions
AI Counting	🚶	① Object detection size (shooting size) Panoramic : Variable depending on the camera setting height. ② Camera Setting Height(Recommendation) *Only AI Panoramic cameras 8.2ft - 16.4ft

🚶 When the shooting area icon is displayed like this, it is a recommended installation condition.

!🚶 When the shooting area icon is displayed like this, it is not recommended installation condition.

!🚶 When the shooting area icon is displayed like this, it is an installation condition that is not detected.

(Note) Guidance covers only some of the installation conditions.

V2.50 New

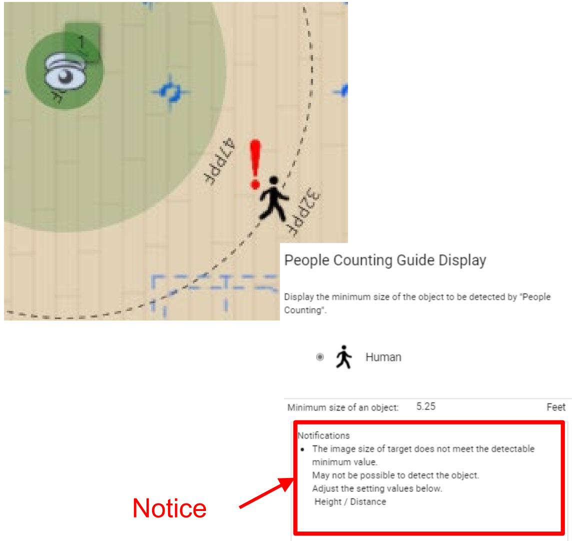
6. Camera Placement / Arrangement (People Counting)

6-4. Dealing with not recommended installation conditions

This is the workaround when the shooting area icon is displayed like this.

Notice	Workaround
The image size of target does not meet the recommended minimum value. May not be possible to detect the object. Adjust the setting values below. Height / Distance	-Reduce the Distance value. -Reduce the Height value.
The installation height of the camera exceeds the recommended value. May not be possible to detect the object. Recommended installation height: 8.20 ft. or more 16.40 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 8.20 ft. or more 16.40 ft. or less. * Only for AI panoramic cameras.

(1) ! Right button click on the icon.
(2) Select [People Counting].
[Notice] is displayed.



People Counting Guide Display

Display the minimum size of the object to be detected by "People Counting".

● Human

Minimum size of an object: 5.25 Feet

Notifications
- The image size of target does not meet the detectable minimum value.
  May not be possible to detect the object.
  Adjust the setting values below.
  Height / Distance

Notice

V2.50 New

6. Camera Placement / Arrangement (People Counting)

6-4. Dealing with not recommended installation conditions

❗🚶 This is the workaround when the shooting area icon is displayed like this.

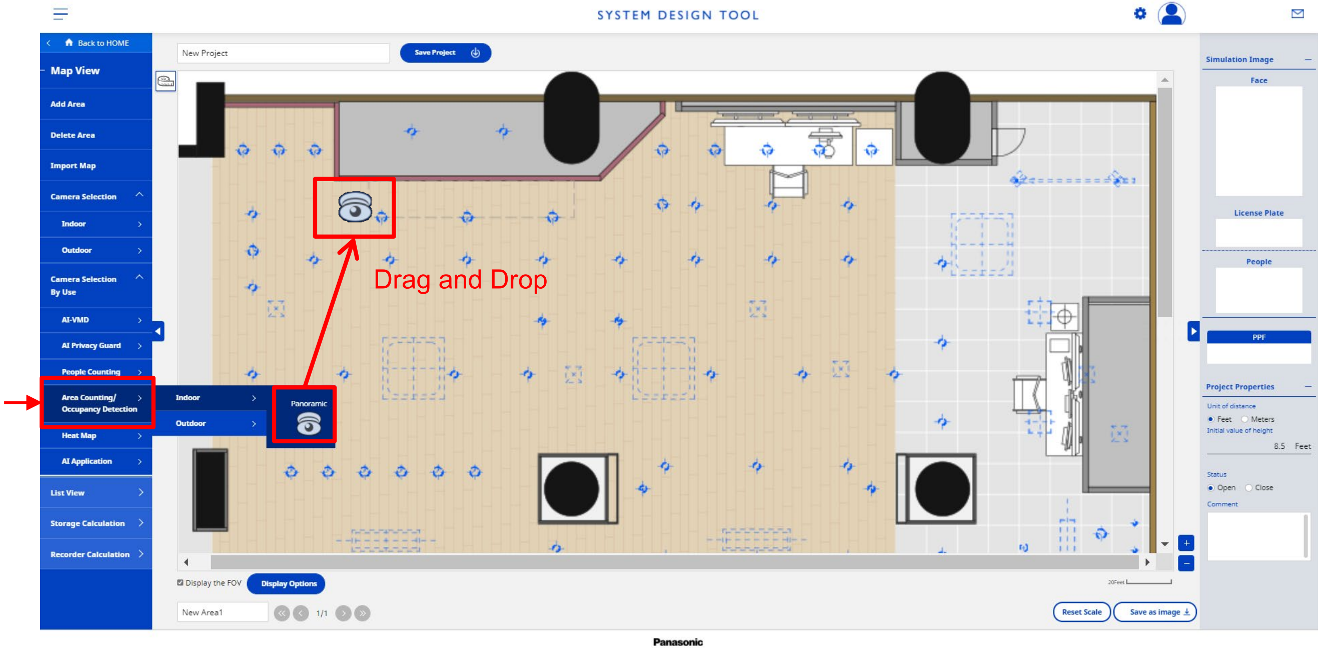
Notice	Workaround
The image size of target does not meet the detectable minimum value. May not be possible to detect the object. Adjust the setting values below. Height / Distance	-Reduce the Distance value. -Reduce the Height value.
The camera exceeds the detectable value. May not be possible to detect the object. Detectable installation height: 19.68 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 19.68 ft. or less. * Only for AI panoramic cameras.

V2.50 New

7. Camera Placement / Arrangement (Area Counting/Occupancy Detection)

7-1. Select Camera and Place the Icon onto the Map (By Area Counting/Occupancy Detection)

Select a camera from [Area Counting/Occupancy Detection] in "Camera Selection By Use" in the menu,
and drag and drop it to the work area to place it.
By arranging according to usage, recommended AI function settings can be provided as guidance.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Indoor
Outdoor
Panoramic
New Project
Save Project
Drag and Drop
Simulation Image
Face
License Plate
People
PPF
Project Properties
Display Options
20Feet
Reset Scale
Save as image
New Area1
1/1
Panasonic

Unit of distance: ● Feet ○ Meters

Initial value of height: 8.5 Feet

Status: ● Open ○ Close

Comment

☑ Display the FOV

Camera selection by application

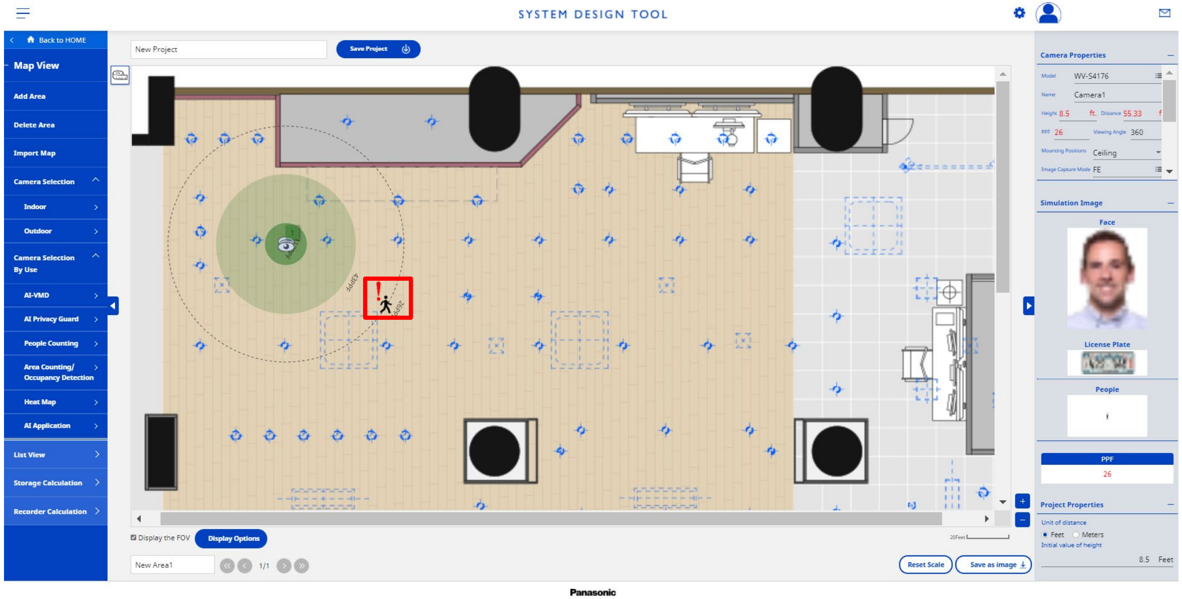
＊ Can copy the camera icon with "Ctrl + C" and paste it with "Ctrl + V".

V2.50 New

7. Camera Placement / Arrangement (Area Counting/Occupancy Detection)

7-2. AI Guide Display

If the installation conditions are not recommended, the subject icon will change.
The target of the guide display is only the cameras placed in [Camera Selection By Use].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
Display Options
Reset Scale
Save as image
Camera Properties
Simulation Image
Face
License Plate
People
Project Properties
Panasonic

New Project

Model WV-S4176

Name Camera1

Height 8.5 ft. Distance 55.33 f

PPF 26 Viewing Angle 360

Mounting Positions Ceiling

Image Capture Mode FE

PPF 26

Unit of distance ● Feet ○ Meters

Initial value of height 8.5 Feet

☑ Display the FOV

New Area1 1/1

🚶 When the icon of the object to be photographed is displayed like this, it is a recommended installation condition.

!🚶 When the icon of the object to be photographed is displayed like this, it is an installation condition that is not detected.

V2.50 New

7. Camera Placement / Arrangement (Area Counting/Occupancy Detection)

7-3. Installation conditions for Area Counting/Occupancy Detection cameras

The following installation conditions are checked for cameras for Occupancy Detection.

Use	Icon	Camera installation conditions
Area Counting/ Occupancy Detection	🚶	① Object detection size (shooting size) Panoramic ： Variable depending on the camera setting height. ② Camera Setting Height(Recommendation) *Only AI Panoramic cameras 8.2ft - 16.4ft

🚶 When the shooting area icon is displayed like this, it is a recommended installation condition.

!🚶 When the shooting area icon is displayed like this, it is an installation condition that is not detected.

(Note) Guidance covers only some of the installation conditions.

V2.50 New

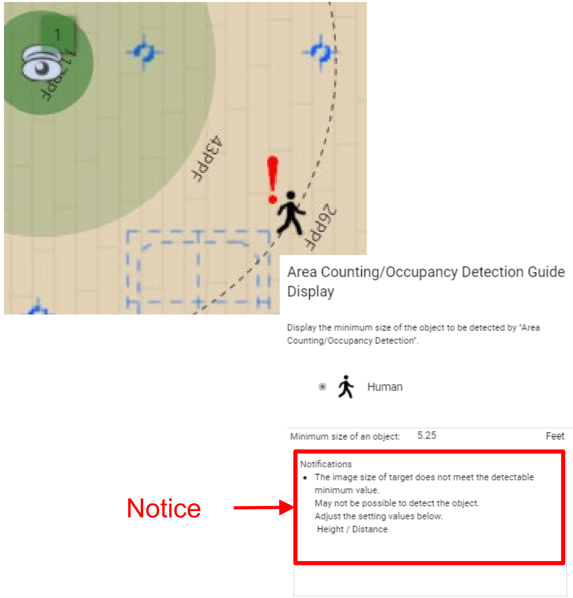
7. Camera Placement / Arrangement (Area Counting/Occupancy Detection)

7-4. Dealing with not recommended installation conditions

!🚶 This is the workaround when the shooting area icon is displayed like this.

Notice	Workaround
The image size of target does not meet the recommended minimum value. May not be possible to detect the object. Adjust the setting values below. Height / Distance	-Reduce the Distance value. -Reduce the Height value.
The installation height of the camera exceeds the recommended value. May not be possible to detect the object. Recommended installation height: 8.20 ft. or more 16.40 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 8.20 ft. or more 16.40 ft. or less. * Only for AI panoramic cameras.

(1) ! Right button click on the icon.
(2) Select [Area Counting/Occupancy Detection]. [Notice] is displayed.



Area Counting/Occupancy Detection Guide Display

Display the minimum size of the object to be detected by "Area Counting/Occupancy Detection".

● 🚶 Human

Minimum size of an object: 5.25 Feet

Notifications
- The image size of target does not meet the detectable minimum value.
  May not be possible to detect the object.
  Adjust the setting values below.
  Height / Distance

V2.50 New

7. Camera Placement / Arrangement (Area Counting/Occupancy Detection)

7-4. Dealing with not recommended installation conditions

❗🚶 This is the workaround when the shooting area icon is displayed like this.

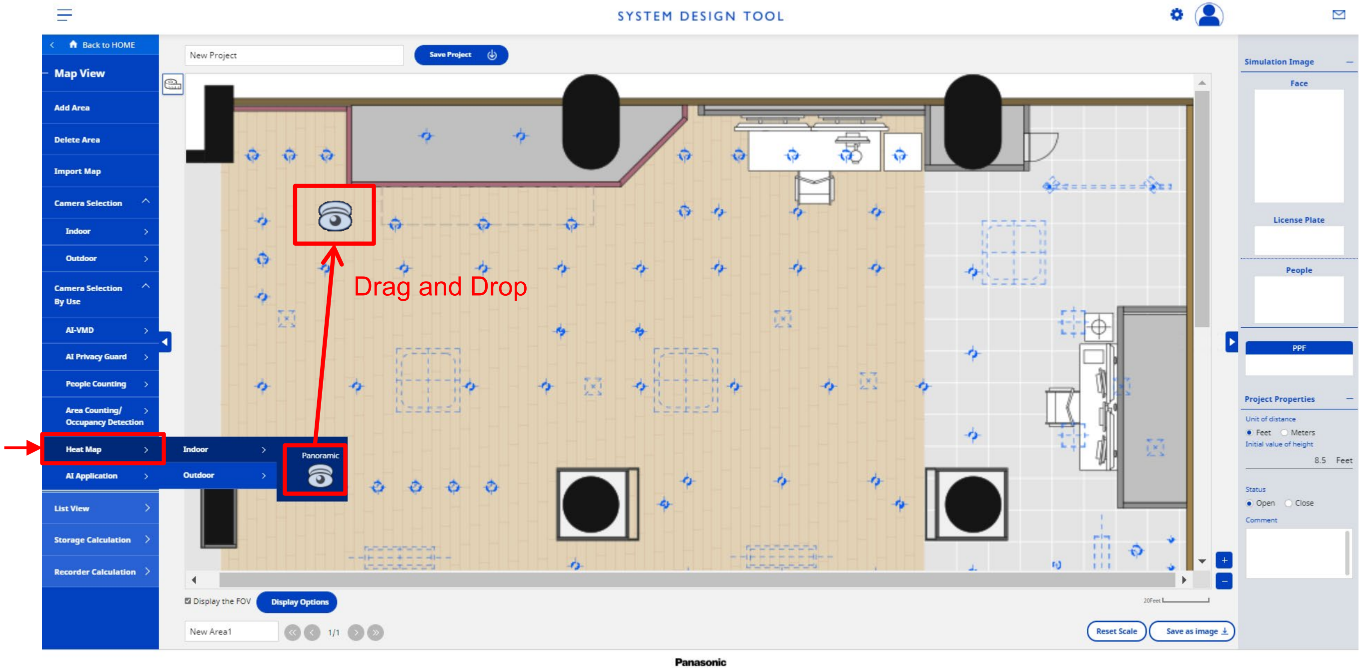
Notice	Workaround
The image size of target does not meet the detectable minimum value. May not be possible to detect the object. Adjust the setting values below. Height / Distance	-Reduce the Distance value. -Reduce the Height value.
The camera exceeds the detectable value. May not be possible to detect the object. Detectable installation height: 19.68 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 19.68 ft. or less. * Only for AI panoramic cameras.

V2.50 New

8. Camera Placement / Arrangement (Heat map)

8-1. Select Camera and Place the Icon onto the Map　(By Heat map)

Select a camera from [Heat map] in "Camera Selection By Use" in the menu, and drag and drop it to the work area to place it.
By arranging according to usage, recommended AI function settings can be provided as guidance.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Indoor
Outdoor
Panoramic
New Project
Save Project
Drag and Drop
Display the FOV
Display Options
New Area1
1/1
20Feet
Reset Scale
Save as image
Simulation Image
Face
License Plate
People
PPF
Project Properties
Comment
Panasonic

Unit of distance
● Feet ○ Meters
Initial value of height
8.5 Feet
Status
● Open ○ Close

Camera selection by application

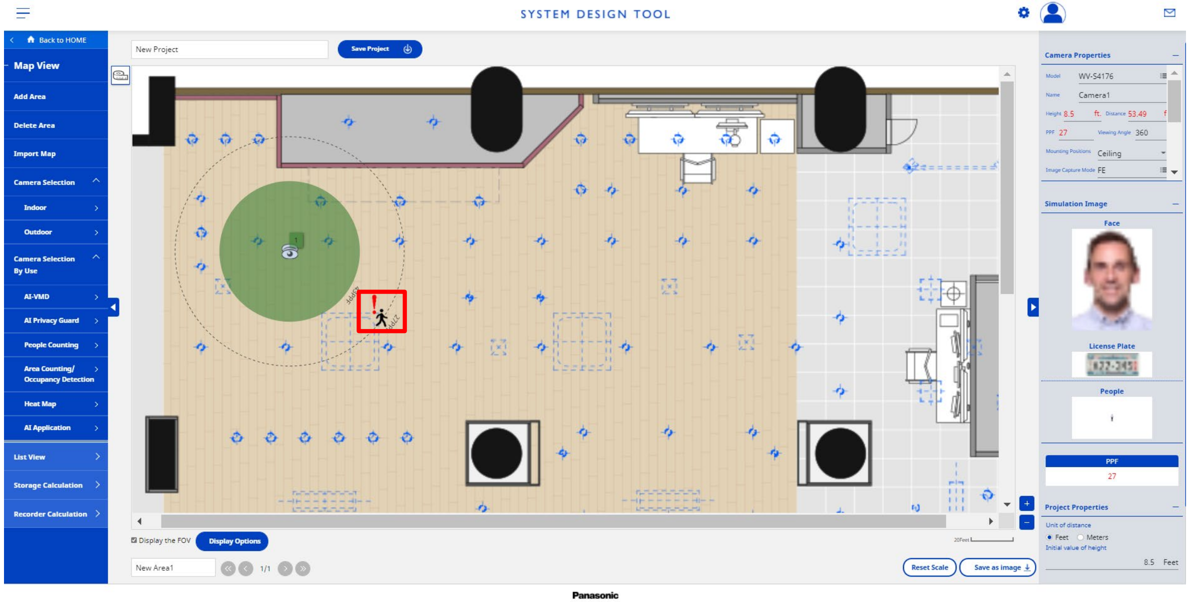
＊ Can copy the camera icon with "Ctrl + C" and paste it with "Ctrl + V".

V2.50 New

8. Camera Placement / Arrangement (Heat map)

8-2. AI Guide Display

If the installation conditions are not recommended, the subject icon will change.
The target of the guide display is only the cameras placed in [Camera Selection By Use].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
Display Options
Reset Scale
Save as image
43PPF
27PPF
20Feet
Camera Properties
Simulation Image
Face
License Plate
People
Project Properties
Panasonic

New Project

☑ Display the FOV

New Area1 1/1

Model WV-S4176
Name Camera1
Height 8.5 ft. Distance 53.49
PPF 27 Viewing Angle 360
Mounting Positions Ceiling
Image Capture Mode FE

PPF 27

Unit of distance
● Feet ○ Meters
Initial value of height 8.5 Feet

🚶 When the icon of the object to be photographed is displayed like this, it is a recommended installation condition.

!🚶 When the icon of the object to be photographed is displayed like this, it is an installation condition that is not detected.

V2.50 New

8. Camera Placement / Arrangement (Heat map)

8-3. Installation conditions for Heat map cameras

The following installation conditions are checked for cameras for Heat map.

Use	Icon	Camera installation conditions
AI Heat map	🚶	① Object detection size (shooting size) Panoramic : Variable depending on the camera setting height. ② Camera Setting Height(Recommendation) *Only AI Panoramic cameras 8.2ft - 16.4ft

🚶 When the shooting area icon is displayed like this, it is a recommended installation condition.

!🚶 When the shooting area icon is displayed like this, it is an installation condition that is not detected.

(Note) Guidance covers only some of the installation conditions.

V2.50 New

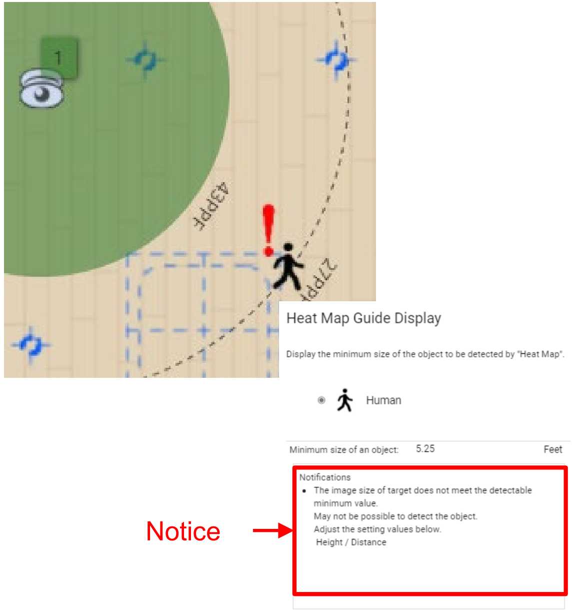
8. Camera Placement / Arrangement (Heat map)

8-4. Dealing with not recommended installation conditions

This is the workaround when the shooting area icon is displayed like this.

Notice	Workaround
The installation height of the camera exceeds the recommended value. May not be possible to detect the object. Recommended installation height: 8.20 ft. or more 16.40 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 8.20 ft. or more 16.40 ft. or less. * Only for AI panoramic cameras.

(1) ❗Right button click on the icon.
(2) Select [Heat map].
[Notice] is displayed.



Heat Map Guide Display

Display the minimum size of the object to be detected by "Heat Map".

● Human

Minimum size of an object: 5.25 Feet

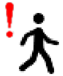
Notifications
- The image size of target does not meet the detectable minimum value.
May not be possible to detect the object.
Adjust the setting values below.
Height / Distance

Notice

V2.50 New

8. Camera Placement / Arrangement (Heat map)

8-4. Dealing with not recommended installation conditions



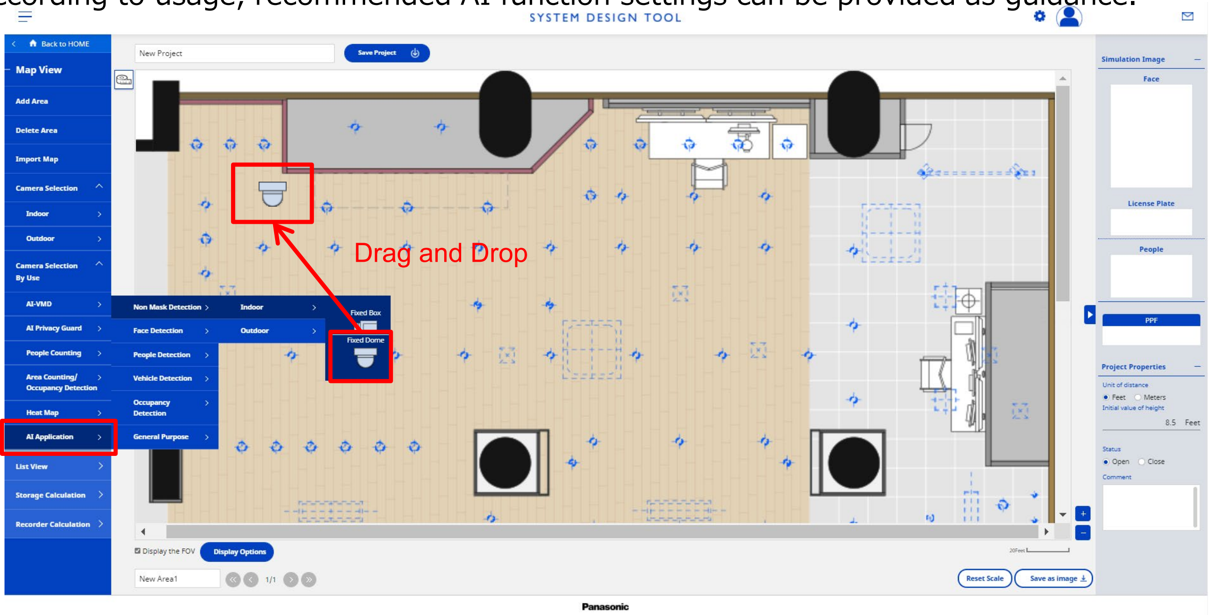
This is the workaround when the shooting area icon is displayed like this.

Notice	Workaround
The image size of target does not meet the detectable minimum value. May not be possible to detect the object. Adjust the setting values below. Height / Distance	-Reduce the Distance value. -Reduce the Height value.
The camera exceeds the detectable value. May not be possible to detect the object. Detectable installation height: 19.68 ft. or less. Adjust the setting values below. Height	-The value of camera setting height is within the following range 19.68 ft. or less. * Only for AI panoramic cameras.

9. Camera Placement / Arrangement (AI Application)

9-1. Select Camera and Place the Icon onto the Map (By AI Application)

Select a camera from [AI Application] in "Camera Selection By Use)" in the menu, and drag and drop it to the work area to place it.AI applications can be placed from the following for each application.
Non Mask Detection / Face Detection / People Detection /
Vehicle Detection / Occupancy Detection / General purpose
By arranging according to usage, recommended AI function settings can be provided as guidance.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Non Mask Detection
Face Detection
People Detection
Vehicle Detection
Occupancy Detection
General Purpose
Indoor
Outdoor
Fixed Box
Fixed Dome
New Project
Save Project
Drag and Drop
Simulation Image
Face
License Plate
People
PPF
Project Properties
Unit of distance
Feet
Meters
Initial value of height
8.5
Feet
Status
Open
Close
Comment
Display the FOV
Display Options
New Area1
1/1
20Feet
Reset Scale
Save as image
Panasonic

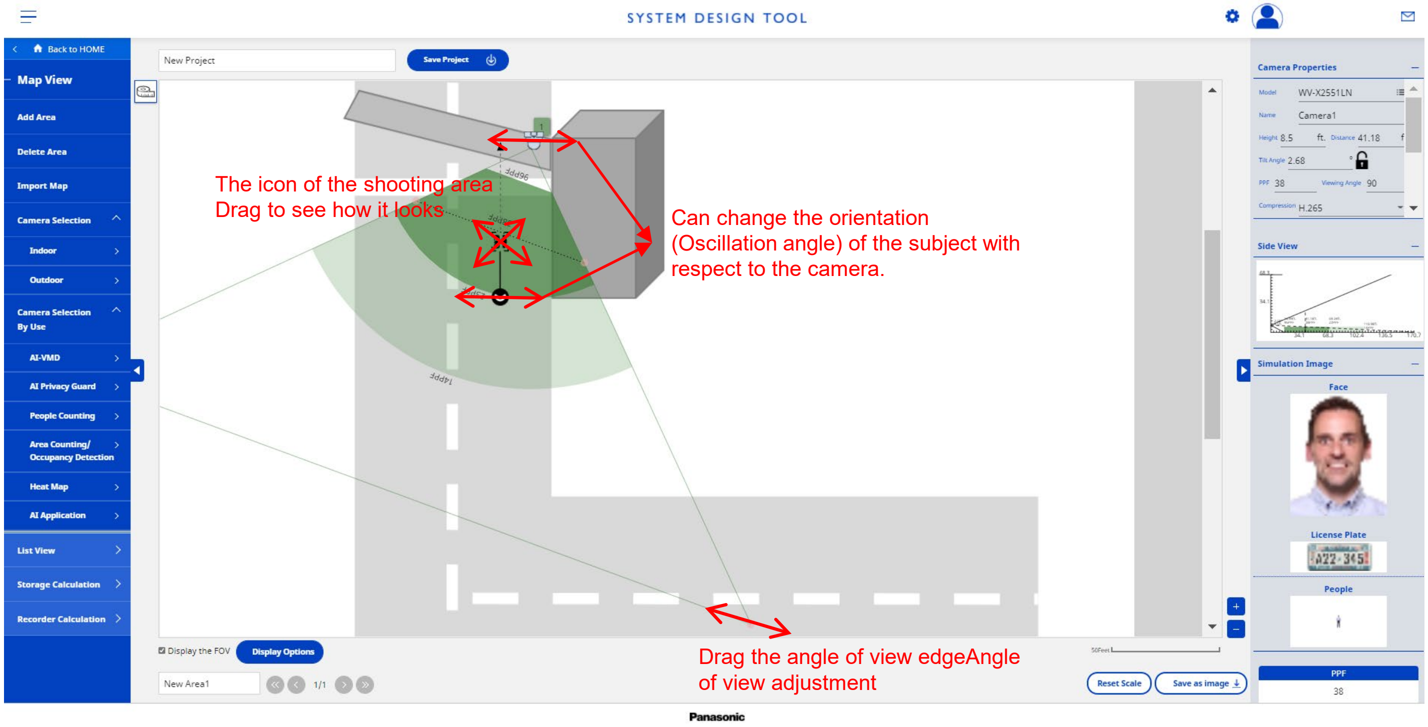
AI Application →

When placed from [General purpose], the “9-7. Guidance conditions" screen opens.
Please set or select the conditions before use.

9. Camera Placement / Arrangement (AI Application)

9-2. Subject position / Oscillation angle setting on the map

Can simulate the position of the subjection on the map and the swing angle with respect to the camera.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
Display Options
Reset Scale
Save as image
Camera Properties
Side View
Simulation Image
Face
License Plate
People
PPF
38
Panasonic

New Project

☑ Display the FOV

New Area1

1/1

Model WV-X2551LN

Name Camera1

Height 8.5 ft. Distance 41.18

Tilt Angle 2.68 °

PPF 38 Viewing Angle 90

Compression H.265

The icon of the shooting area
Drag to see how it looks

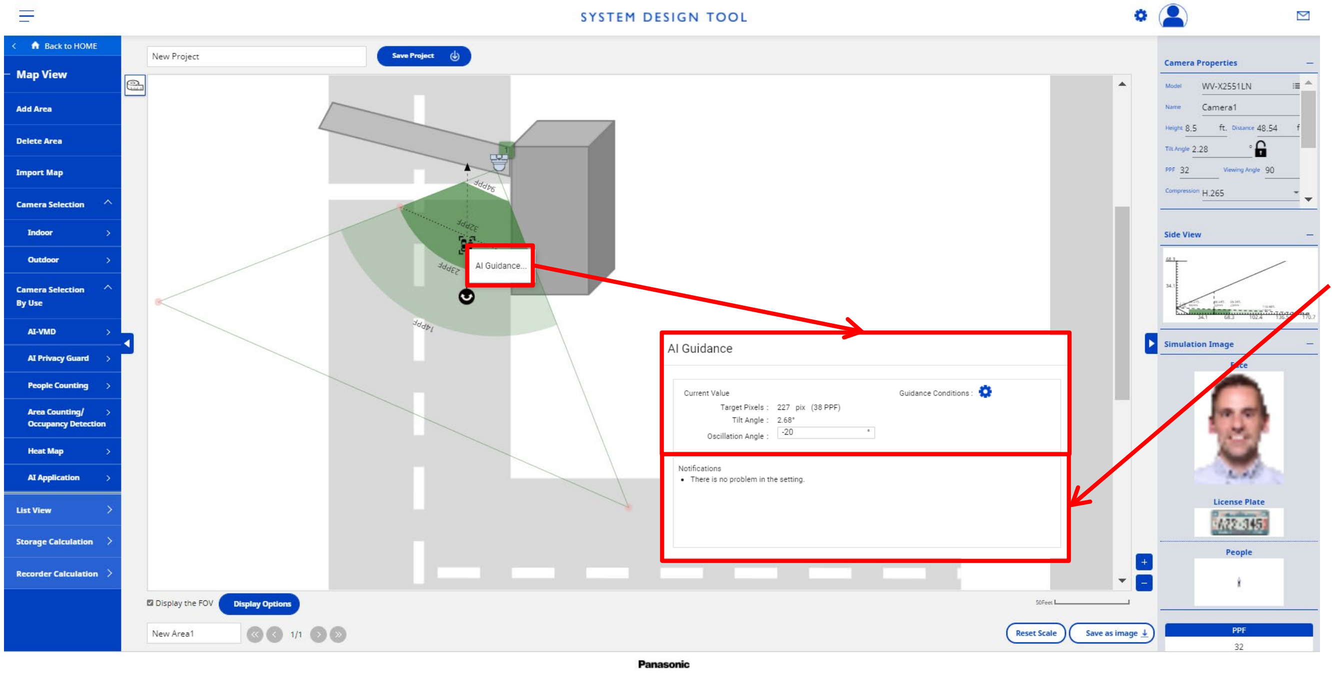
Can change the orientation (Oscillation angle) of the subject with respect to the camera.

Drag the angle of view edgeAngle of view adjustment

9. Camera Placement / Arrangement (AI Application)

9-3. AI Guide Setting

Click the right mouse button on the shooting area icon to check the current value and notification.
This setting is possible only for the cameras placed from [Camera selection by Use] [AI Application].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
AI Guidance...
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Camera Properties
Side View
Simulation Image
Face
License Plate
People
PPF
32
Panasonic

Model WV-X2551LN
Name Camera1
Height 8.5 ft. Distance 48.54
Tilt Angle 2.28 °
PPF 32 Viewing Angle 90
Compression H.265

AI Guidance

Current Value

Guidance Conditions :

Target Pixels : 227 pix (38 PPF)
Tilt Angle : 2.68°
Oscillation Angle : -20 °

Notifications

- There is no problem in the setting.

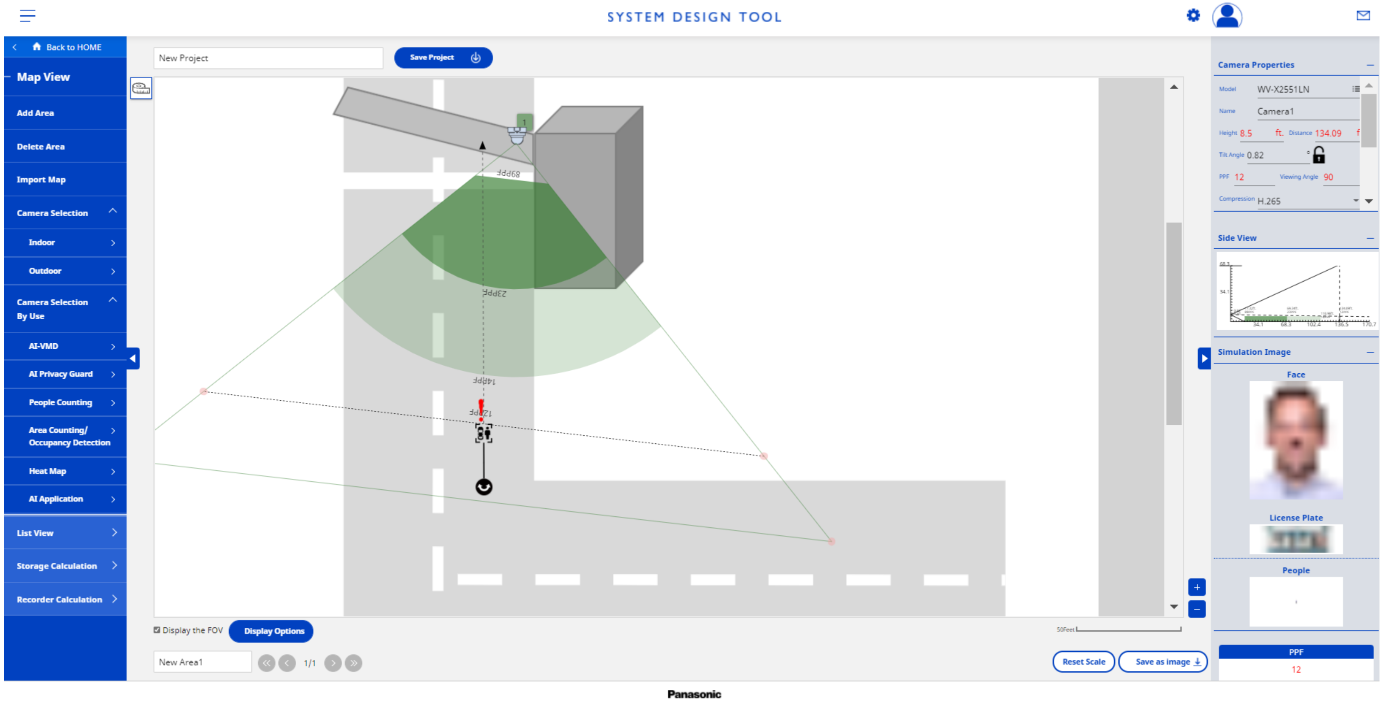
[Current value]

Check the number of pixels and depression angle of the camera
Set swing angle

9. Camera Placement / Arrangement (AI Application)

9-4. AI Guide Display

If the installation conditions are not recommended, the subject icon will change.
The target of the guide display is only the cameras placed in [Camera Selection By Use].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
89PPF
23PPF
14PPF
12PPF
Display the FOV
Display Options
1/1
50Feet
Reset Scale
Save as image
Camera Properties
Side View
Simulation Image
Face
License Plate
People
Panasonic

New Project

New Area1

☑ Display the FOV

Model: WV-X2551LN

Name: Camera1

Height: 8.5 ft.

Distance: 134.09

Tilt Angle: 0.82 °

PPF: 12

Viewing Angle: 90

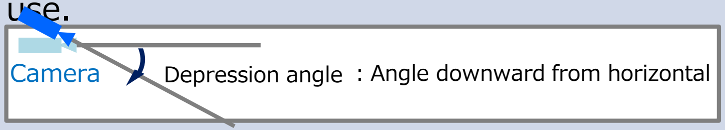
Compression: H.265

PPF: 12

9. Camera Placement / Arrangement (AI Application)

9-5. Installation conditions for AI application cameras

The following installation conditions are checked for cameras for AI applications.

Use	Icon	Camera installation conditions
AI Application		(1) Number of subject pixels of the object (shooting size) The recommended range and detectable range are set according to the application. In the case of [General purpose], set the recommended range and detectable range before use. (2) Camera tilt angle range The recommended range and detectable range are set according to the application. In the case of [General purpose], set the recommended range and detectable range before use.  (3) Oscillation angle range of the subject The recommended range and detectable range are set according to the application.

When the shooting area icon is displayed like this, it is a recommended installation condition.
When the shooting area icon is displayed like this, it is not recommended.
When the shooting area icon is displayed like this, it is an installation condition that is not detected.

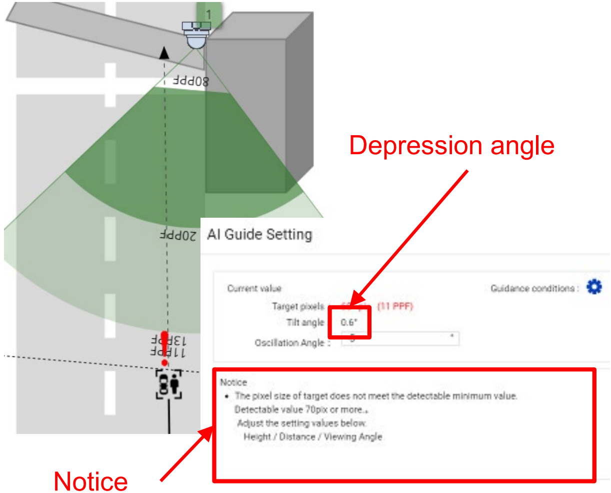
9. Camera Placement / Arrangement (AI Application)

9-6. Dealing with not recommended installation conditions

! ! This is the workaround when the shooting area icon is displayed like this.

Notice	Workaround
The pixel size of target exceeds the recommended maximum / detectable value.	・Increase the value of the viewing angle. ・Increase the distance value. ・Increase the installation height value
The pixel size of target does not meet the recommended / detectable minimum value.	・Reduce the value of the viewing angle. ・Reduce the distance value. ・Reduce the installation height value.
Tilt angle of camera exceeds the recommended / detectable maximum value.	・Increase the distance value. ・Reduce the installation height value.
Tilt angle of camera does not meet the recommended / detectable minimum value.	・Reduce the distance value. ・Increase the installation height value.
Oscillation angle of target exceeds the recommended / detectable maximum value.	・Reduce the oscillation angle of the subject icon.

(1) ! Right button click on the icon.
(2) Select [AI Video Motion Detection Setting].
[Notice] is displayed.



AI Guide Setting

Current value
Guidance conditions :
Target pixels : (11 PPF)
Tilt angle 0.6°
Oscillation Angle :

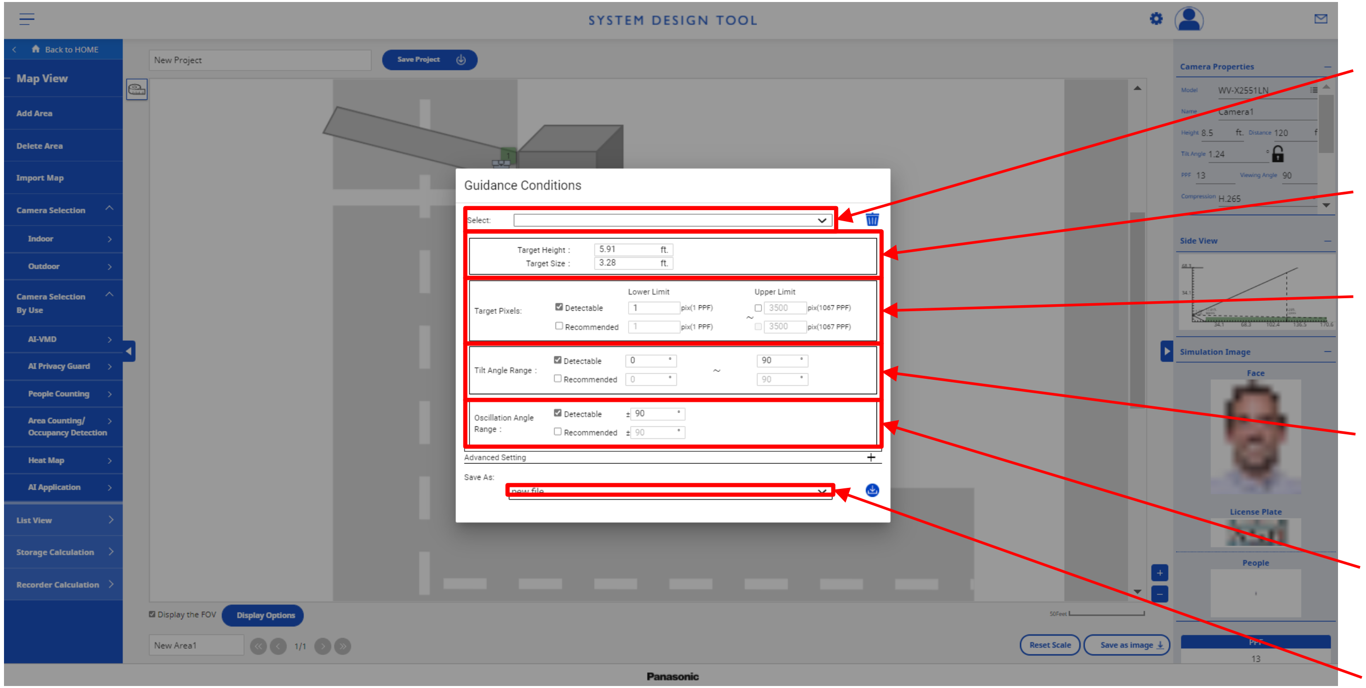
Notice
- The pixel size of target does not meet the detectable minimum value.
  Detectable value 70pix or more.。
  Adjust the setting values below.
  Height / Distance / Viewing Angle

Depression angle

Notice

9-7. Guidance conditions

Use: Cameras placed from [AI application] [General purpose] can customize the recommended installation conditions.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
Display Options
Reset Scale
Save as image
Simulation Image
Face
License Plate
People
Panasonic

New Project

Camera Properties
Model WV-X2551LN
Name Camera1
Height 8.5 ft. Distance 120
Tilt Angle 1.24 °
PPF 13 Viewing Angle 90
Compression H.265

Side View

Guidance Conditions

Select:

Target Height : 5.91 ft.
Target Size : 3.28 ft.

		Lower Limit		Upper Limit
Target Pixels:	☑ Detectable	1 pix(1 PPF)	~	☐ 3500 pix(1067 PPF)
	☐ Recommended	1 pix(1 PPF)		☐ 3500 pix(1067 PPF)
Tilt Angle Range :	☑ Detectable	0 °	~	90 °
	☐ Recommended	0 °		90 °
Oscillation Angle Range :	☑ Detectable	± 90 °		
	☐ Recommended	± 90 °		

Advanced Setting +

Save As: new file

☑ Display the FOV

New Area1 1/1

[Non Mask Detection] [Face Detection] [People Detection] [Vehicle Detection] [Occupancy Detection] can be selected in [Select]

Height and size of the subject can be set

The following upper limit of the number of pixels of the subject / Lower limit can be set (0-3500pix)
-Detectable / -Recommended

The following upper and lower limits of the depression angle range Settable
-Detectable / -Recommended

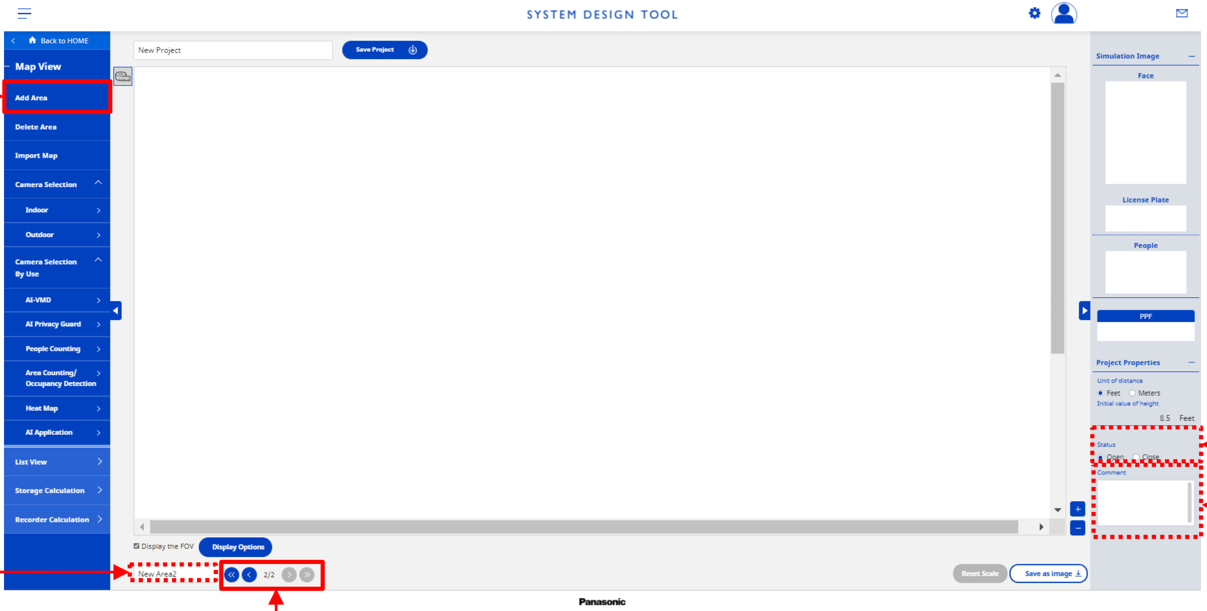
The following upper and lower limits of the swing angle range Settable -Detectable / -Recommended

Setting and saving the camera name

10. Map / Floor Plan

10-1. Add Map / Floor Plan as Additional Page to the Same Project

(1) Click “Add Area” to add an additional map/floor plan to the same project.
(An additional page will be created.)
(2) Page can be changed by using the button below the workspace.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
Display Options
Reset Scale
Save as image
Simulation Image
Face
License Plate
People
PPF
Project Properties
Panasonic

New Project

☑ Display the FOV

New Area2 2/2

Unit of distance
● Feet ○ Meters
Initial value of height
8.5 Feet

Status
● Open ○ Close
Comment

(1) Add another area

Input area name per floor

(2) Change page

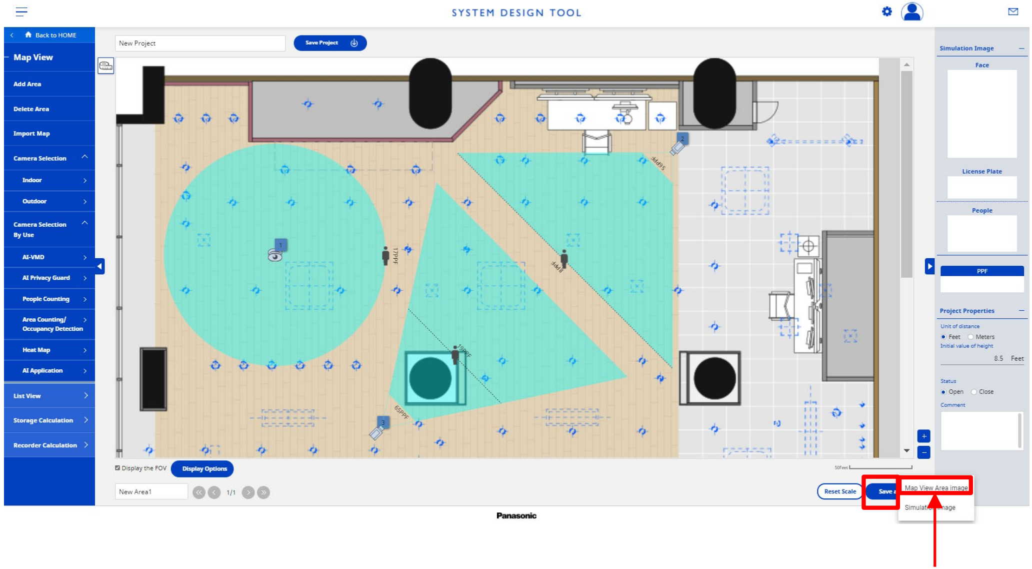
Project creation status can be added (Open/Close)

Free comment can be added

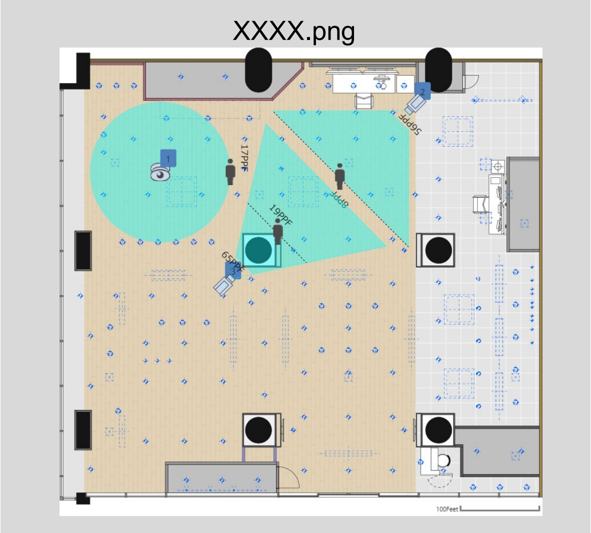
10. Map / Floor Plan

10-2. Designed Plan Can Be Saved as an Image

Click “Save as image” button below workspace to download the designed plan as a PNG image file.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Simulation Image
Face
License Plate
People
PPF
Project Properties
Unit of distance
● Feet ○ Meters
Initial value of height
8.5 Feet
Status
● Open ○ Close
Comment
☑ Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save
Map View Area image
Simulation image
Panasonic

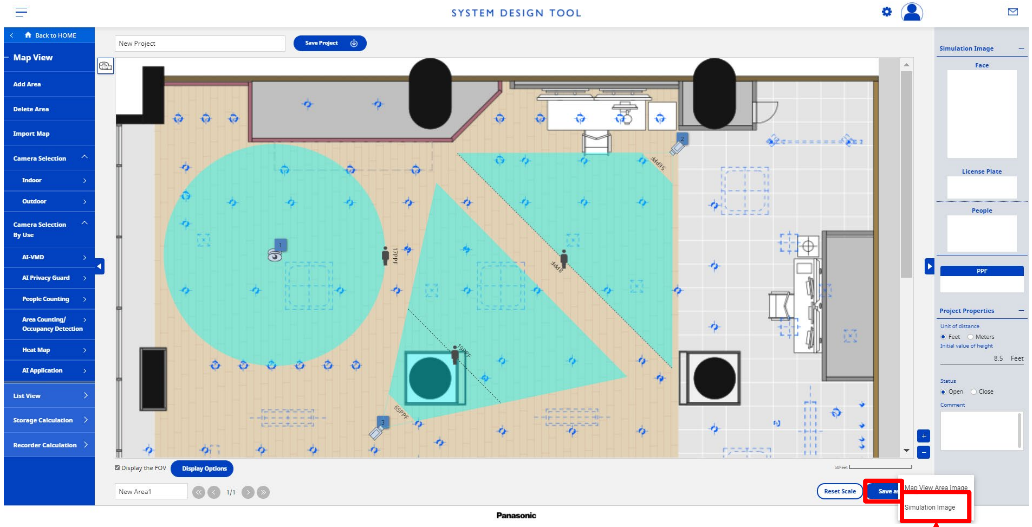
Design drawing output


XXXX.png
17PPF
19PPF
65PPF
56PPF
100Feet

10. Map / Floor Plan

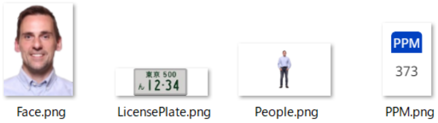
10-3. Simulation image output

(1) Select [Save Image] at the bottom of the work area.
(2) Select [Simulation image].
The simulation image is output in zip format.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Simulation Image
Face
License Plate
People
PPF
Project Properties
Unit of distance
Feet
Meters
Initial value of height
8.5 Feet
Status
Open
Close
Comment
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as
Map View Area image
Simulation Image
Panasonic

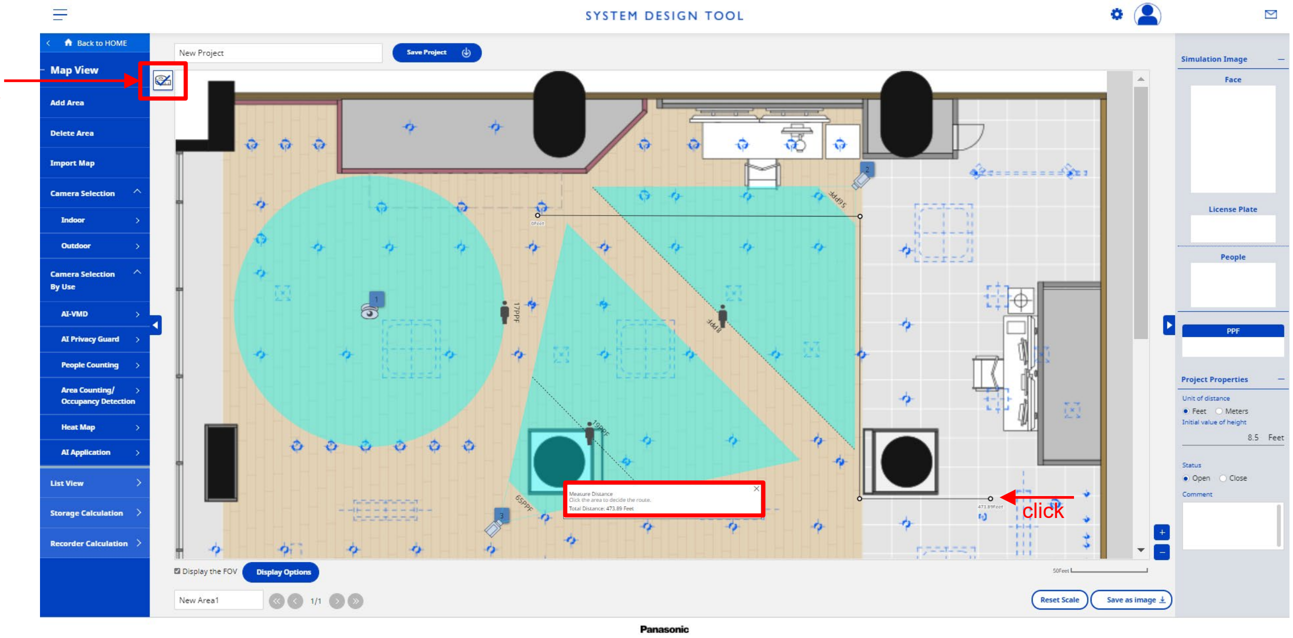
Simulation image output

SimulationImage(New Project-New Area1).zip
- Camera#1(WV-X4571L)
- Camera#2(WV-S1131)
- Camera#3(WV-S1131)


Face.png
LicensePlate.png
People.png
PPM
373
PPM.png

10-4. Distance Measurement

Can measure it when you want to know the distance on the map.
(1) Select [Distance Measurement Start / End].
(2) Click repeatedly on the map to draw the distance measurement target line.
(3) Select [Distance Measurement Start / End] to end the measurement.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Display Options
New Area1
1/1
Reset Scale
Save as image
Simulation Image
Face
License Plate
People
PPF
Project Properties
Comment
Panasonic
click

Measure Distance
Click the area to decide the route.
Total Distance: 473.89 Feet

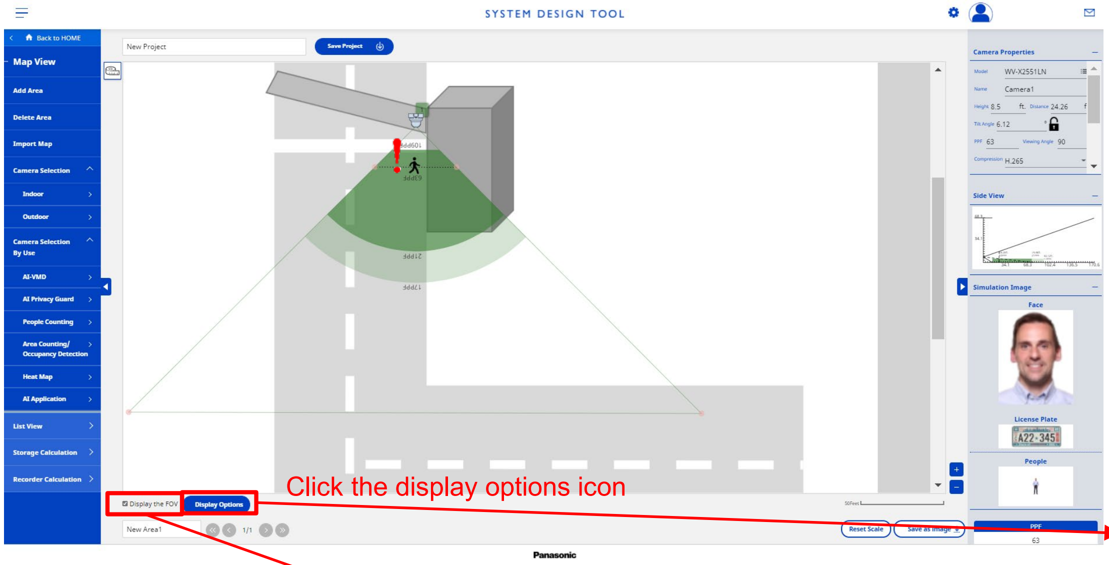
☑ Display the FOV

Unit of distance
● Feet ○ Meters
Initial value of height
8.5 Feet
Status
● Open ○ Close

Distance Measurement Start / End

10-5. Display options

Can switch the FOV area display of the camera displayed on the map by specifying options.

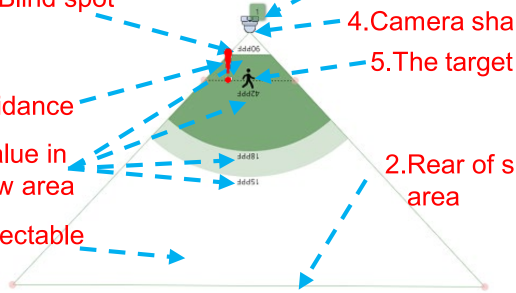

SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Camera Properties
Side View
Simulation Image
Face
License Plate
People
PPF
Panasonic

Model WV-X2551LN
Name Camera1
Height 8.5 ft. Distance 24.26
Tilt Angle 6.12 °
PPF 63 Viewing Angle 90
Compression H.265
PPF 63

☑ Display the FOV

Click the display options icon

Turn on / off the display option in the workspace.



1.Blind spot

2.Rear of shooting area

3.Camera number

4.Camera shape

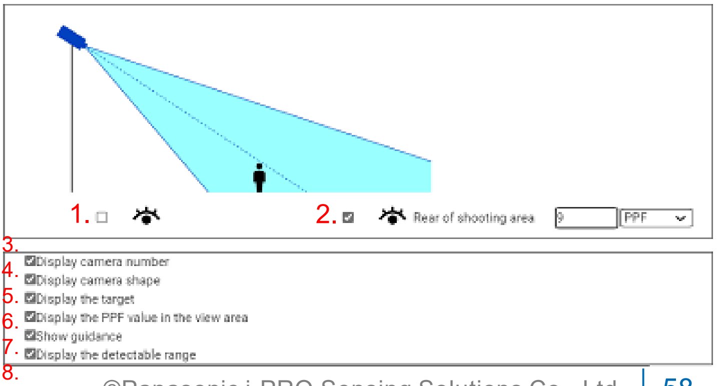
5.The target

6. PPF value in the view area

7.Guidance

8.The detectable range

Display options



1. ☐

2. ☑ Rear of shooting area 9 PPF

3. ☑Display camera number

4. ☑Display camera shape

5. ☑Display the target

6. ☑Display the PPF value in the view area

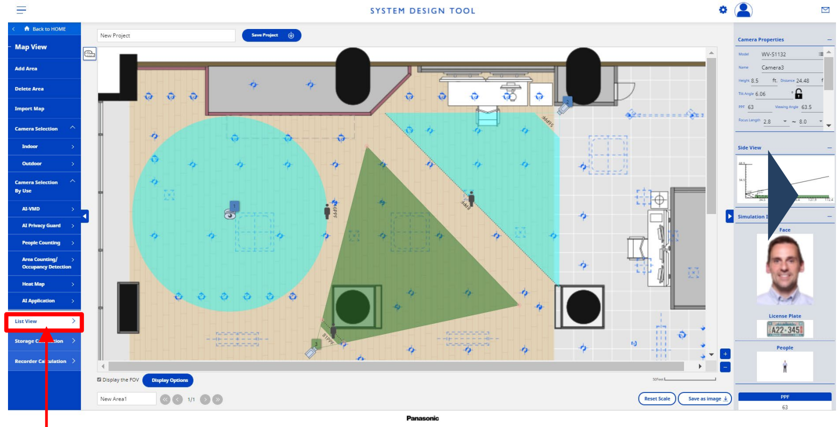
7. ☑Show guidance

8. ☑Display the detectable range

11. List View / Calculation

11-1. List View, CSV Export Function

(1) Click “List View“ button in the menu pane to show all the cameras placed onto the map as a list.
(2) List view can be exported as a CSV format file.


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
Display the FOV
Display Options
Reset Scale
Save as image
Side View
Simulation
Face
License Plate
People
PPF
Panasonic

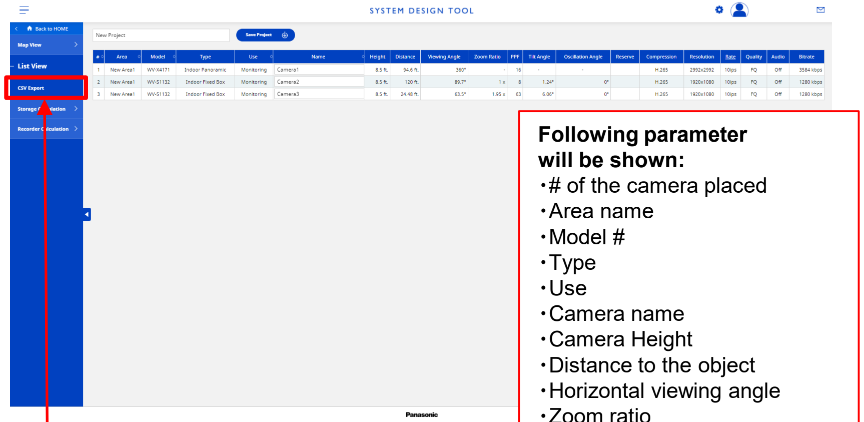
New Project

New Area1

Camera Properties

Model WV-S1132
Name Camera3
Height 8.5 ft.
Distance 24.48
Tilt Angle 6.06 °
PPF 63
Viewing Angle 63.5
Focus Length 2.8 ~ 8.0

(1) Move to list view page

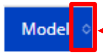

SYSTEM DESIGN TOOL
Back to HOME
Map View
List View
CSV Export
Storage Calculation
Recorder Calculation
Save Project
Panasonic

New Project

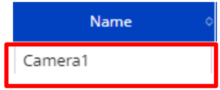
#	Area	Model	Type	Use	Name	Height	Distance	Viewing Angle	Zoom Ratio	PPF	Tilt Angle	Oscillation Angle	Reserve	Compression	Resolution	Rate	Quality	Audio	Bitrate
1	New Area1	WV-X4171	Indoor Panoramic	Monitoring	Camera1	8.5 ft.	94.6 ft.	360°	-	16	-	-		H.265	2992x2992	10ips	FQ	Off	3584 kbps
2	New Area1	WV-S1132	Indoor Fixed Box	Monitoring	Camera2	8.5 ft.	120 ft.	89.7°	1 x	8	1.24°	0°		H.265	1920x1080	10ips	FQ	Off	1280 kbps
3	New Area1	WV-S1132	Indoor Fixed Box	Monitoring	Camera3	8.5 ft.	24.48 ft.	63.5°	1.95 x	63	6.06°	0°		H.265	1920x1080	10ips	FQ	Off	1280 kbps

(2) Export list as a CSV file

Following parameter will be shown:
- # of the camera placed
- Area name
- Model #
- Type
- Use
- Camera name
- Camera Height
- Distance to the object
- Horizontal viewing angle
- Zoom ratio
- Value of PPM/PPF
- Depression Angle
- Compression mode
- Resolution
- Framerate
- Picture quality
- Audio (On/Off)
- Bitrate



Can sort of the items with this mark.



Camera1

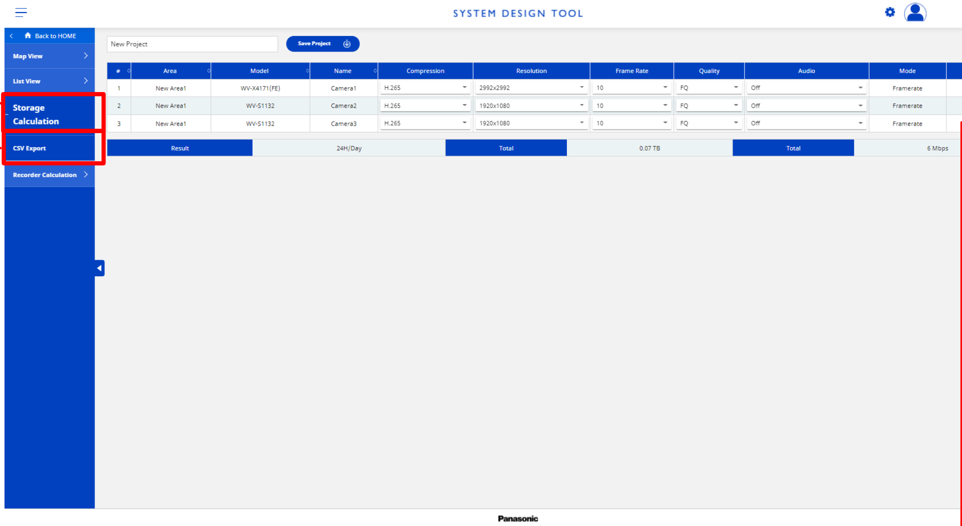
Can change the camera name.

11-2. Storage Calculation

(1) Click the “Storage Calculation” button in the menu pane to show calculation page.
Parameters (such as compression, resolution, etc.) are adjustable for total storage/bandwidth calculation.
(2) The storage/bandwidth calculation result can be exported as a CSV file.

(1) Go to Storage Calculation page

(2) Export calculation result as a CSV file


SYSTEM DESIGN TOOL
Back to HOME
Map View
List View
Storage Calculation
CSV Export
Recorder Calculation
Save Project
Panasonic

New Project

#	Area	Model	Name	Compression	Resolution	Frame Rate	Quality	Audio	Mode	Bitrate
1	New Area1	WV-X4171(FE)	Camera1	H.265	2992x2992	10	FQ	Off	Framerate	3584 kbps
2	New Area1	WV-S1132	Camera2	H.265	1920x1080	10	FQ	Off	Framerate	1280 kbps
3	New Area1	WV-S1132	Camera3	H.265	1920x1080	10	FQ	Off	Framerate	

Result	24H/Day	Total	0.07 TB	Total	6 Mbps

The following parameters will be shown:
- # of the camera placed
- Area name
- Model #
- Camera name
- Compression mode
- Resolution
- Framerate
- Picture quality
- Audio (On/Off)
- Mode
- Bitrate

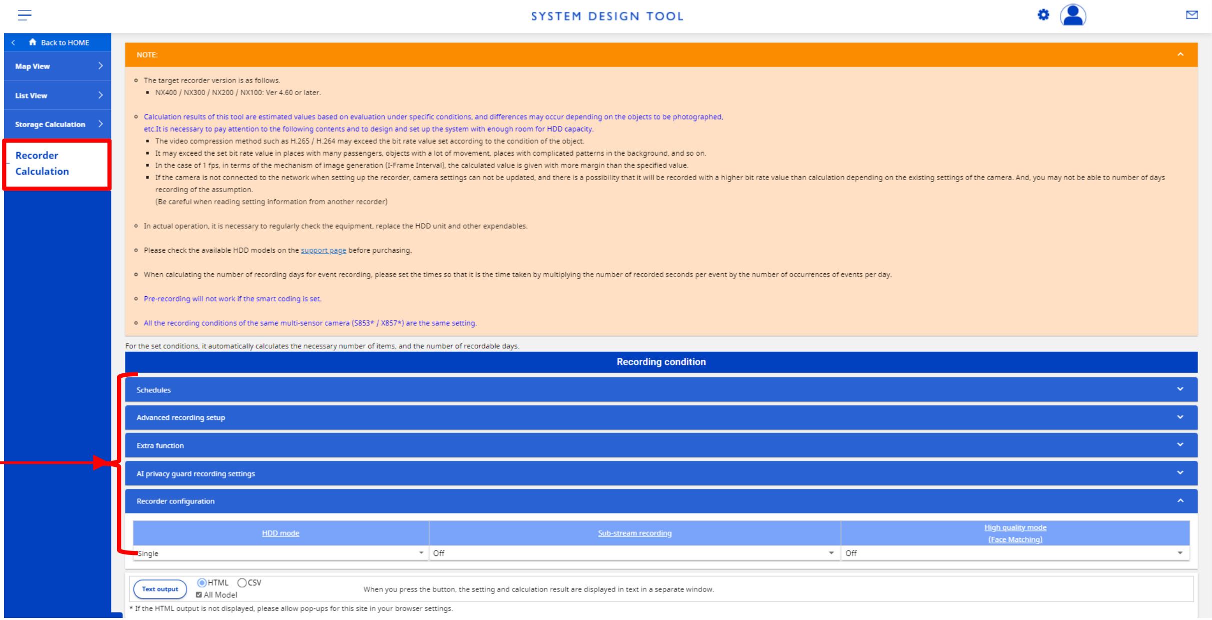
- Total storage capacity
- Total bandwidth
- Total bitrate

11. List View / Calculation

11-3. Recorder Calculation

(1) Click the “Recorder Calculation” button in the menu pane to show Recorder calculation page
*NX400 / NX300 / NX200/ VMS mode is available.

(2) Calculate recorder configuration information based on Schedule, Advanced recording setup, Extra function, and Recorder configuration.



NOTE:

- The target recorder version is as follows.
  - NX400 / NX300 / NX200 / NX100: Ver 4.60 or later.
- Calculation results of this tool are estimated values based on evaluation under specific conditions, and differences may occur depending on the objects to be photographed, etc.It is necessary to pay attention to the following contents and to design and set up the system with enough room for HDD capacity.
  - The video compression method such as H.265 / H.264 may exceed the bit rate value set according to the condition of the object.
  - It may exceed the set bit rate value in places with many passengers, objects with a lot of movement, places with complicated patterns in the background, and so on.
  - In the case of 1 fps, in terms of the mechanism of image generation (I-Frame Interval), the calculated value is given with more margin than the specified value.
  - If the camera is not connected to the network when setting up the recorder, camera settings can not be updated, and there is a possibility that it will be recorded with a higher bit rate value than calculation depending on the existing settings of the camera. And, you may not be able to number of days recording of the assumption.
    (Be careful when reading setting information from another recorder)
- In actual operation, it is necessary to regularly check the equipment, replace the HDD unit and other expendables.
- Please check the available HDD models on the support page before purchasing.
- When calculating the number of recording days for event recording, please set the times so that it is the time taken by multiplying the number of recorded seconds per event by the number of occurrences of events per day.
- Pre-recording will not work if the smart coding is set.
- All the recording conditions of the same multi-sensor camera (S853* / X857*) are the same setting.

For the set conditions, it automatically calculates the necessary number of items, and the number of recordable days.

HDD mode	Sub-stream recording	High quality mode (Face Matching)
Single	Off	Off

When you press the button, the setting and calculation result are displayed in text in a separate window.

* If the HTML output is not displayed, please allow pop-ups for this site in your browser settings.

Recorder Calculation →

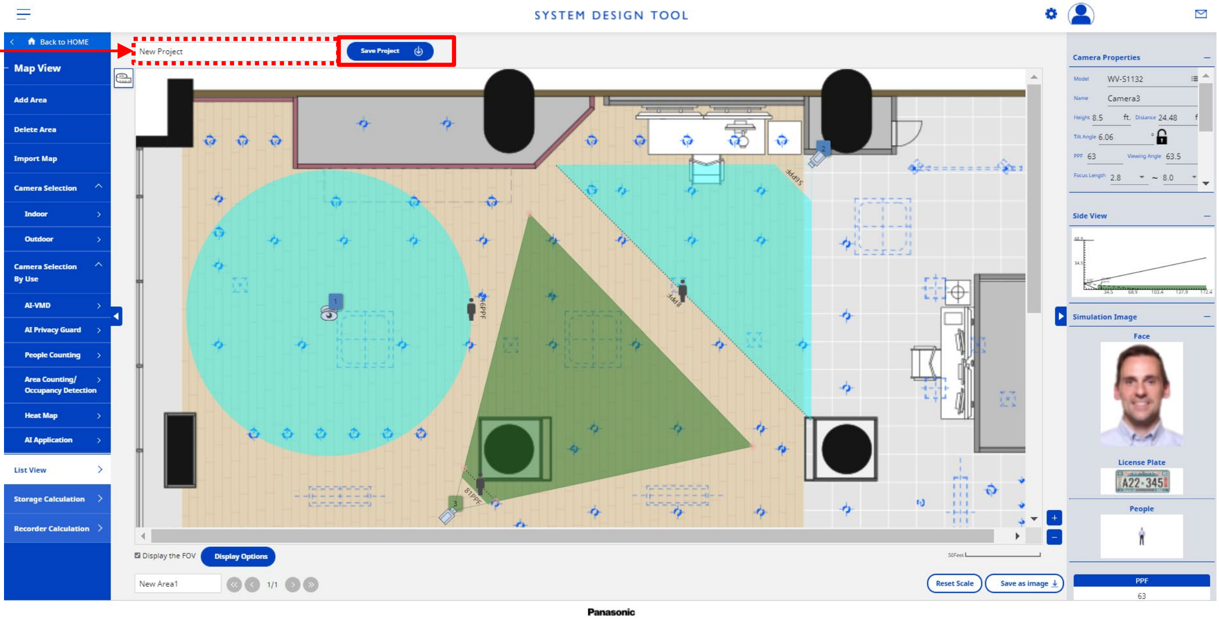
Input required condition →

11-4. Save the Created Project

- The created project can be saved onto the site.
- The saved project can be re-edited (add/delete cameras, change parameters) to update.

* Save/edit created project is available only during signed-in.

Enter project name


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
Save Project
Display Options
1/1
Reset Scale
Save as image
Camera Properties
Side View
Simulation Image
Face
License Plate
A22-345
People
PPF
63
Panasonic

New Project

Model WV-S1132
Name Camera3
Height 8.5 ft. Distance 24.48 f
Tilt Angle 6.06 °
PPF 63 Viewing Angle 63.5
Focus Length 2.8 ~ 8.0

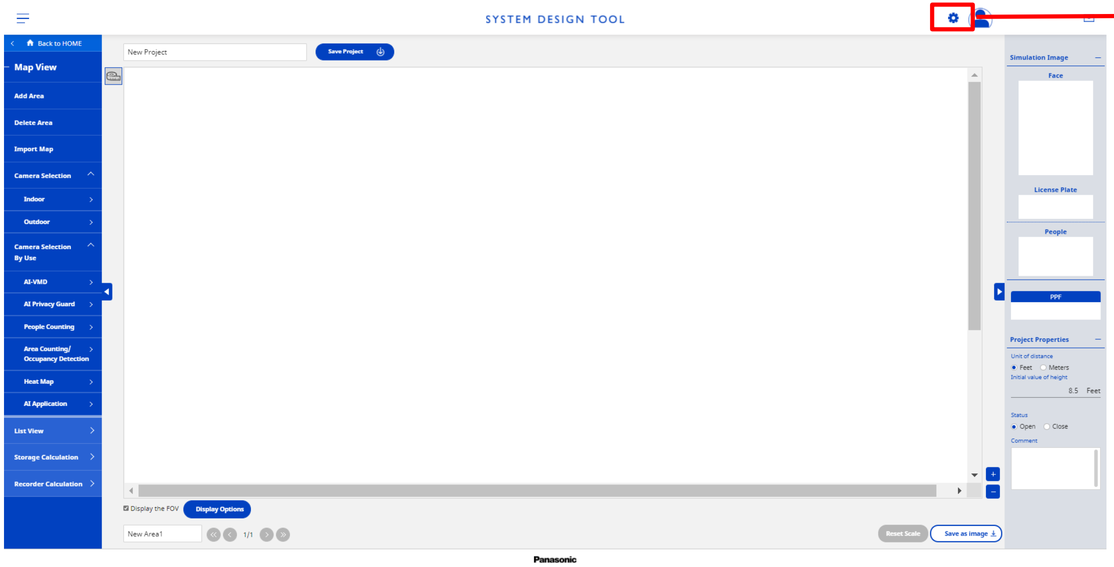
☑ Display the FOV

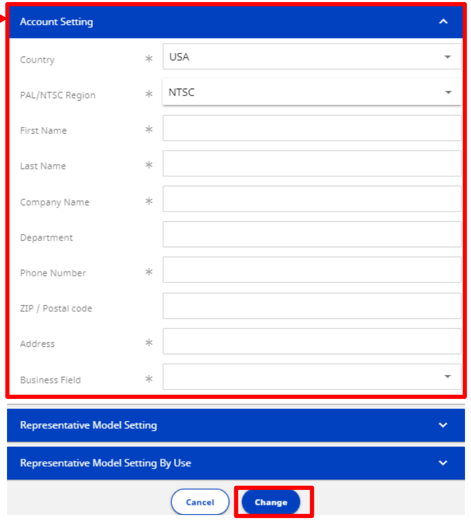
New Area1

12. Account Setting

12-1. Account Setting

Can change your account information. (Only when logging in)
(1) Select the [Account Settings] button.
(2) Change the account information and select [Change].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Simulation Image
Face
License Plate
People
PPF
Project Properties
Unit of distance
Feet
Meters
Initial value of height
8.5 Feet
Status
Open
Close
Comment
Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Panasonic



Account Setting

Country	*	USA
PAL/NTSC Region	*	NTSC
First Name	*	
Last Name	*	
Company Name	*	
Department		
Phone Number	*	
ZIP / Postal code		
Address	*	
Business Field	*	

Representative Model Setting
Representative Model Setting By Use
Cancel
Change

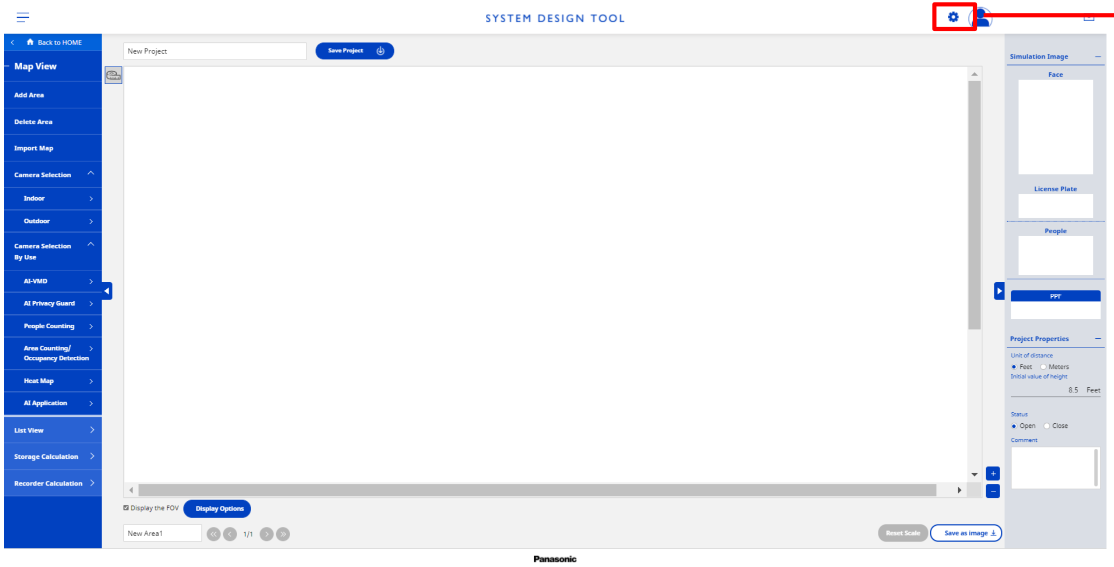
12-2. Change of camera Representative Model

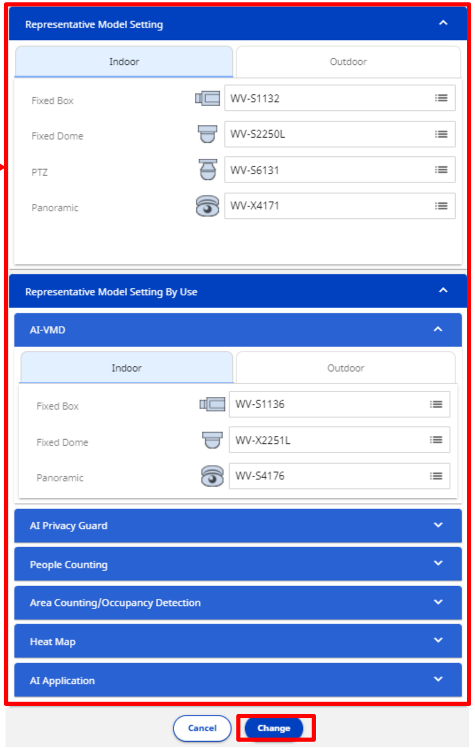
Can change the camera part number that was initially selected when placing the camera. (Only when logging in)

(1) Select the [Account Settings] button.

(2) Select [Representative Model Setting] / [Representative Model Setting (by Use)]
as necessary.

(3) Change the camera model and select [Change].


SYSTEM DESIGN TOOL
Back to HOME
Map View
Add Area
Delete Area
Import Map
Camera Selection
Indoor
Outdoor
Camera Selection By Use
AI-VMD
AI Privacy Guard
People Counting
Area Counting/ Occupancy Detection
Heat Map
AI Application
List View
Storage Calculation
Recorder Calculation
New Project
Save Project
Simulation Image
Face
License Plate
People
PPF
Project Properties
Unit of distance
● Feet ○ Meters
Initial value of height
8.5 Feet
Status
● Open ○ Close
Comment
☑ Display the FOV
Display Options
New Area1
1/1
Reset Scale
Save as image
Panasonic


Representative Model Setting

Indoor | Outdoor

Fixed Box: WV-S1132

Fixed Dome: WV-S2250L

PTZ: WV-S6131

Panoramic: WV-X4171

Representative Model Setting By Use

AI-VMD

Indoor | Outdoor

Fixed Box: WV-S1136

Fixed Dome: WV-X2251L

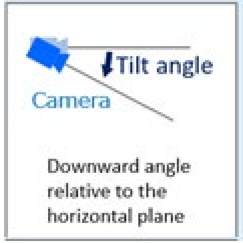
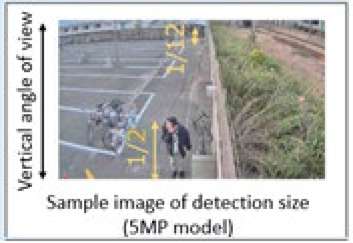
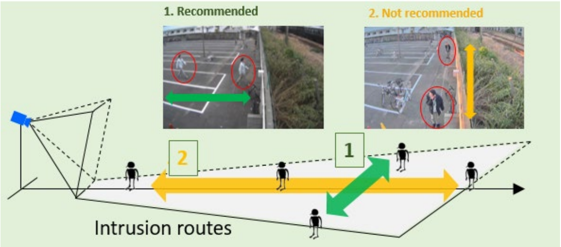
Panoramic: WV-S4176

AI Privacy Guard
People Counting
Area Counting/Occupancy Detection
Heat Map
AI Application
Cancel
Change

Disclaimer

No.	Category	Disclaimer
1	Browser	Please use with "Chrome","FireFox","Safari","Microsoft Edge" as a browser. (Internet Explorer is not compatible with this tool.)
2	Main Functions	This tool is provided for guidance only. The estimates, reference images (Face/License Plate/People), and PPF/PPM value may differ from the actual result based on the environment. Please verify the actual picture quality and adjust the camera position, height, parameters, and so on when you install the cameras.
3	Storage Calculation	Calculation results of this tool are estimated values based on evaluation under specific conditions, and differences may occur depending on the objects to be photographed, etc. It is necessary to pay attention to the following contents and to design and set up the system with enough room for HDD capacity. - The video compression method, such as H.265/H.264, may exceed the bit rate value set according to the condition of the object. - It may exceed the set bit rate value in places with many passengers, objects with a lot of movement, places with complicated patterns in the background, and so on. - In the case of 1 fps, in terms of the mechanism of image generation (I-Frame Interval), the calculated value is given with a greater margin than the specified value. - If the camera is not connected to the network when setting up the recorder, camera settings cannot be updated, and there is a possibility that it will be recorded with a higher bit rate value than calculation depending on the existing settings of the camera. You may not be able to use the number of days of recording based on the assumption. (Be careful when reading setting information from another recorder.)
4	Storage Calculation	Storage Calculation will use total stream "stream-1 to stream-4" for the storage and bandwidth calculation when you select multi-sensor cameras (listed below). [WV-S8530 / WV-S8531 / WV-X8570 / WV-X8571]
5	Recorder Calculation	Following settings in the Advanced recording setup option will be saved to the Project information. (Other settings won’t be saved.) Compression, Image capture size, Rate, Quality, Audio Default values are applied to the setting values other than the above settings when opening from the Project List.
6	Target Model	The software may show cameras that are not available for your region/country.
7	Target Model	WV-V1170 is not supported by this tool.
8	Main Functions	The PPM/PPF value for 360-deg. cameras is not editable. (This is because the horizontal distance from the 360-deg. camera to an object cannot be calculated properly based on PPM/PPF value.)
9	Main Functions	The tool supports PDF, JPEG, PNG, and BMP file format for map/floor plan image. The maximum size of the image file is 5MB.
10	Main Functions	Maximum number of map: 20 maps per 1 user(ID) -If 20 maps are already loaded in the project, an error message will be displayed when loading another map into the area, and loading will not be possible. Maximum number of camera: 200 cameras per area, 500 cameras per project -If the number of cameras exceeds the upper limit, there may be a problem in operation and processing speed. -Depending on the operating status and load status of other programs, there may be problems with operation and processing speed even if the number is less than the upper limit.
11	System requirements	CPU : Intel(R) Core(TM) i5 1.70GHz or above Memory : 8GB or above
12	Device	This tool does not support touch panel devices such as smartphones and tablets.

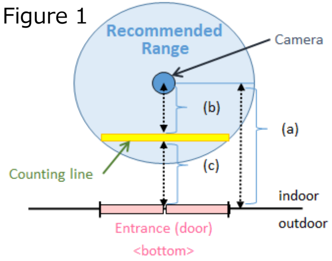
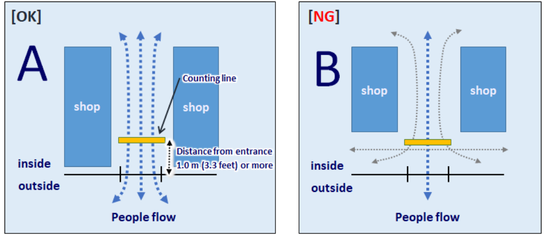
Disclaimer

No.	Category	Disclaimer
13	Simulation	The wider the viewing angle of the camera, the larger the center and the smaller the surroundings. Therefore, the appearance and PPM/PPF value and other simulation results may not match the actual image.
14	AI guidance function	The [AI Motion Detection] / [AI Privacy Guard] guidance boundaries are based on recommended values for effective use of AI functions. The recommended values are based on shooting conditions that provide sufficient illuminance during the day. The AI function may be enabled even under the condition that the icon for shooting is displayed as !. In such a case, please perform a full live-action verification before operating.
15	AI Motion Detection guidance	The current guidance is based on the recommended minimum detection size of an object (1/12 of the vertical angle of view). There are other installation requirements for AI Motion Detection, so please be careful when installing. The following are simulation target of the System Design Tool. Depression angle: 0-45° Image size: (*1) FHD Cameras:1/8 – 1/2 of the vertical angle of view. 5M Cameras : 1/16 – 1/2 of the vertical angle of view. 4K Cameras : 1/24 – 1/4 of the vertical angle of view. The following are not simulation target of System Design Tool. Illuminance(*2): 3lx or more (*1) Confirmation on site is needed as it differs depending on the environment. (*2) The effective detection distance between the camera and a subject is 10m as a guide regardless of the model, when built-in IR-LED is ON.  Downward angle relative to the horizontal plane  Sample image of detection size (5MP model) Camera direction We recommend mounting the camera so that the people captured move across the angle of view. 1. Crosswise direction (Recommended) The motion amount of an object on the image is large enough 2. Lengthwise direction (Not recommended) The motion amount of an object on the image is small  1. Recommended 2. Not recommended 2 1 Intrusion routes

Disclaimer

No.	Category	Disclaimer
16	V2.50 New AI Motion Detection guidance (AI Panoramic Camera)	Please note that the AI Motion Detection (AI Panoramic Camera) installation requirements are as follows. The following are simulation target of the System Design Tool. Mounting Positions: Ceiling Height(Camera installation): 8.20 ft. or more 16.40 ft. or less The following are not simulation target of System Design Tool. Illuminance(*1): 10lx or more Camera direction: Recommended to install it horizontally to the ground (*1) Not recommended for use in the built-in IR-LED environment. When using it, please check the operation in the usage environment before using it.
17	AI Privacy Guard Guidance	Please note that the AI privacy guard installation requirements are as follows. The following are simulation target of the System Design Tool. Detection size (*1): Full HD Camera 32 - 1400pxl 4K Camera 64 - 2800pxl The following are not simulation target of System Design Tool. Maximum simultaneous number of people:99. Range of reflection: 2/3 or more of the subject Mosaic target [Face] selected: Orientation (*2) Within 90 ° left and right, within 45 ° up and down Rotation (*3) Within ± 90 ° (*1) When mosaic target [face] is set: Width of face Mosaic target [Person] setting: Width of person (*2) Angle between the camera optical axis and the face (*3) Face angle when the vertical direction of the image is 0 °

Disclaimer

No.	Category	Disclaimer
18	**V2.50 New** AI Privacy Guard Guidance (AI Panoramic Camera)	Please note that the AI privacy guard (AI Panoramic Camera) installation requirements are as follows. The following are simulation target of the System Design Tool. Mounting Positions: Ceiling, Wall Height(Camera installation): 8.20 ft. or more 16.40 ft. or less(for Ceiling Installation) The following are not simulation target of System Design Tool. Illuminance(*1): 10lx or more Camera direction: Recommended to install it horizontally or vertical to the ground (*1) Not recommended for use in the built-in IR-LED environment. When using it, please check the operation in the usage environment before using it.
19	**V2.50 New** People Counting Guidance (AI Panoramic Camera)	Please note that the People Counting (AI Panoramic Camera) installation requirements are as follows. The following are simulation target of the System Design Tool. Mounting Positions: Ceiling Height(Camera installation): 8.20 ft. or more 16.40 ft. or less The following are not simulation target of System Design Tool. Distance between Camera installation position and Entrance: 3.28 ft. or more (refer Figure 1) Distance between the Counting line and Entrance: 3.28 ft. or more (refer Figure 1) People flow: refer Figure 2 Illuminance: 50lx or more Camera direction: Recommended to install it horizontally to the ground Figure 1  Recommended Range Camera (b) (a) (c) Counting line indoor outdoor Entrance (door) <bottom> Figure 2  [OK] A shop shop Counting line Distance from entrance 1.0 m (3.3 feet) or more inside outside People flow [NG] B shop shop inside outside People flow

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20	V2.50 New Area Counting/ Occupancy Detection Guidance (AI Panoramic Camera)	Please note that the Area Counting/Occupancy Detection (AI Panoramic Camera) installation requirements are as follows. The following are simulation target of the System Design Tool. Mounting Positions: Ceiling Height(Camera installation): 8.20 ft. or more 16.40 ft. or less The following are not simulation target of System Design Tool. Illuminance(*1): 50lx or more Camera direction: Recommended to install it horizontally to the ground
21	V2.50 New Heat Map Guidance (AI Panoramic Camera)	Please note that the Heat Map (AI Panoramic Camera) installation requirements are as follows. The following are simulation target of the System Design Tool. Mounting Positions: Ceiling Height(Camera installation): 8.20 ft. or more 16.40 ft. or less The following are not simulation target of System Design Tool. Illuminance(*1): 50lx or more Camera direction: Recommended to install it horizontally to the ground

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22	Import Map	If the size of the map image exceeds the limit, it may be resized when the map is imported. The image size limits are as follows. -When using Google Chrome/Microsoft Edge/Apple Safari browser Height: 21,845px or less Width: 21,845px or less Pixels: 29,825,336px or less Approximate paper size and resolution: For paper size A4, the resolution is 555 dpi or less. For paper size A3, the resolution is 392 dpi or less. For paper size A0, the resolution is 138 dpi or less. -When using Mozilla Firefox as the browser Height: 8,476px or less Width: 10,922px or less Pixels: 13,887,848px or less Approximate paper size and resolution: For paper size A4, the resolution is 397 dpi or less. For paper size A3, the resolution is 268 dpi or less. For paper size A0, the resolution is 94 dpi or less.

System Design Tool URL:

https://i-pro.com/global/en/surveillance/tools/sdt/

System Design Tool User Registration URL:

https://sdt.business.panasonic.net/register/input

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