

Panasonic®

Operating Instructions

Extension Software

Model No. **WV-SAE200, WV-SAE100**



Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

The model number is abbreviated in some descriptions in this manual.

CONTENTS

Preface	3
Features.....	3
About notations.....	3
About the user manuals	3
System requirements	4
Trademarks and registered trademarks	4
Abbreviations	4
Before using this product 	5
Operations flow	6
How to obtain and register the Registration Key	7
Advanced func. (Face detection function)	9
Setup menu.....	9
Configure the setting relating to the image recognition [Advanced func.].....	10
i-VMD function 	12
About "Live" page when the i-VMD function is activated 	13
Enable the i-VMD function [Alarm] 	14
Configure the settings relating to i-VMD [i-VMD] 	15
Configure the settings relating to the detection mode/area [Detection mode/area] 	16
Set the detection depth 	19
Set the i-VMD schedule [Schedule] 	20
Configure the settings relating to Panasonic alarm protocol [Panasonic alarm protocol] 	21
Configure the advanced settings relating to the i-VMD function [Advanced settings] 	22

Preface

The Extension Software WV-SAE200 and WV-SAE100 (hereinafter, this product) are designed to enhance the usefulness of optional network cameras.

After registering the software, it is possible to use the face detection function and i-VMD function.

Important:

- Refer to the following URL for details.
<http://security.panasonic.com/pss/security/kms>
-

Features

- Face detection function: It is possible to detect people's faces and display the face detection frames. It is also possible to add the function to notify the information of detected faces in the XML format. In combination with the Network Disk Recorder WJ-NV200K Series or the Additional Business Intelligence Kit WJ-NVF20, it is possible to use the face matching function.
- i-VMD function : It is possible to add the detection function for intruder, loitering, direction and scene change. With this function, it will become possible to set more detailed alarm detection conditions compared with the conventional VMD function. For example, an alarm can be issued when the motion of an object meets the specified conditions.

About notations

The following notations are used when describing the functions limited for specified models. The functions without the notations are supported by all models.

Notation	
	The functions with this notation are available when using the model WV-SAE200.
	The functions with this notation are available when using the model WV-SAE100.

For further information about the functions restricted depending on network camera models, refer to the operating instructions of the network cameras in use.

About the user manuals

This PDF manual contains how to register this product in network cameras, how to configure the required settings before starting running the software and how to operate the software.

This product is intended for the use after the registration in network cameras. Be sure to refer to the operating instructions of the network cameras in use together with this manual.

Adobe® Reader® is required to read these operating instructions (PDF) on the provided CD-ROM. When the Adobe® Reader® is not installed on the personal computer (hereinafter, PC), download the latest Adobe® Reader® from the Adobe web site and install it.

System requirements

For further information about the system requirements for the operation from the PC, refer to the operating instructions of the network cameras in use.

Trademarks and registered trademarks

- Adobe and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.
- All other trademarks identified herein are the property of their respective owners.

Abbreviations

The following abbreviations are used in these operating instructions.

Network disk recorders are described as recorders, and network cameras as cameras.

Before using this product

- The motion detection function will not effectively work in the following situations or may sometimes be malfunctioning.
 - There is no difference in luminance level between the moving object and background.
 - Luminance level of image is too low (During nighttime, etc.)
 - Movement of object is too fast or too slow.
 - Object is too big or too small.
 - Luminance level of shooting area is subject to change (outdoors, by the window, etc.)
 - Outside light (sunlight, headlights, etc.) enters the shooting area.
 - Fluorescent light is flickering.
 - Depth of object is too long.
 - Dirt, drip, or splash is on the dome cover of camera.
 - The subject is moving directly toward the camera.
 - Too many objects are moving.
 - Camera is shaking.
 - Weather condition is extremely poor.
 - Several people are crossing with each other.
 - The detection area is blocked with shadows.
- When there are factors for false detection such as shaky trees, driveways filled with cars or water surfaces reflecting light in the shooting area, it is possible to reduce the false detection by setting mask areas (☞ page 18).
- To enhance the detection accuracy, it is recommended to use the system in the following installation environment.
 - Set the angular field of view so that the detection target becomes about 1/6 to 1/3 size in vertical compared to the operation window.
 - Specify the size of the objects to be detected by setting the depth (☞ page 19).
- When configuring the i-VMD settings, set the detection area (☞ page 17) and check the performance in the daytime and nighttime.
- In the following cases, scene change may not be detected.
 - Only a part of the shooting area is covered or the covered object can be seen.
 - Subjects look alike each other before and after the camera direction has been changed.
- For 1 minute after the power is turned on, the camera settings are changed or the angular field of view is changed for the camera, false detection may occur.
- When there is a detection target in the shooting area, alarm will repeatedly occur every 5 seconds. Therefore, the mail notification and the notification using the Panasonic alarm protocol will also be repeated every 5 seconds.
- When using the i-VMD function, the frame rate of H.264 images may become lower.
- In no event shall Panasonic System Networks Co., Ltd. be liable to any party or any person for any problem, consequential inconvenience, or loss or damage, arising out of the i-VMD settings.
- i-VMD is not a function to prevent theft or fire. In no event shall Panasonic System Networks Co., Ltd. be liable to any party or any person for any accidents or loss.

Operations flow

Before purchasing

Check the compatible models and software versions in the following URL when registering the Extension Software.

<http://security.panasonic.com/pss/security/kms>



1 Install the Extension Software
☞ page 7



2 Obtain the Registration Key
☞ page 7



3 Register the Registration Key
☞ page 8

Register the Registration Key obtained in Step **2** in the cameras.



4 Perform the required settings
☞ pages 9-23

Configure the settings relating to the face detection or i-VMD .



Start operations

How to obtain and register the Registration Key

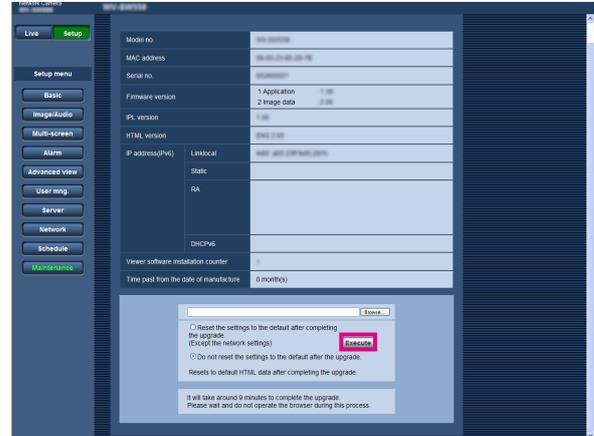
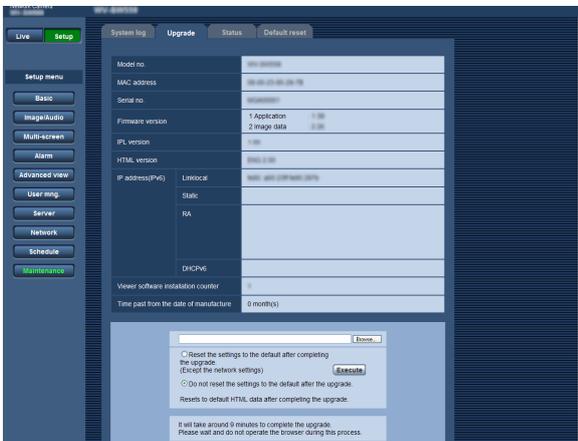
This product needs to be activated by "Registration Key" issued by Key Management System before you start using.

The registration of the Registration Key is only operable by users whose access level is [1. Administrator]. Refer to the operating instructions of the camera for how to configure the access level.

Step 1

Install the Extension Software.

- (1) Access the following URL to download the Extension Software and save it onto the PC.
<http://security.panasonic.com/pss/security/kms>
- (2) Access the camera, and display the setup menu - the "Maintenance" page - the [Upgrade] tab by clicking the corresponding buttons and tab.



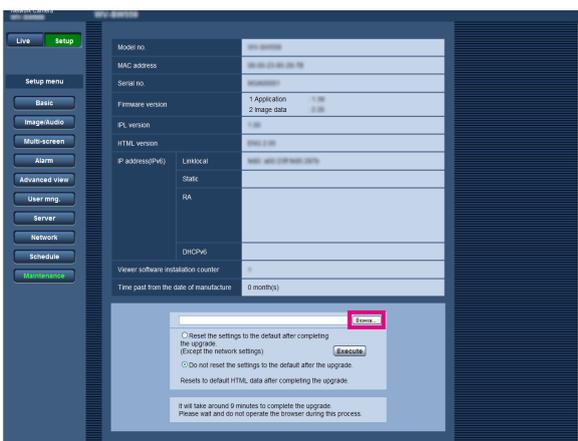
Important:

- Use the file (with an ".ext" extension) specified by Panasonic when installing the Extension Software.
- Do not turn off the power of the camera when installing the software. Do not perform any operations until the installation is completed.

Step 2

Obtain the Registration Key.

- (3) Click the [Browse...] button and designate the downloaded Extension Software.



- (4) Click the [Execute] button.
The installation of the Extension Software will start.
When the installation is completed, the camera will automatically restart.

- (1) Check the MPR ID, Activation Key No. and Registration ID.

Access the camera, and display the setup menu - the "Maintenance" page - the [Upgrade] tab by clicking the corresponding buttons and tab.

Click "Registration of application" - "Registration>>" to display the "Entry information of the key management system" page, and check the MPR ID.

* The MPR ID can also be checked on the product package.

The Activation Key No. and Registration ID are shown on the Activation Key Card.

- (2) Please access and login to the following URL "Key Management System" from your PC or Mobile Phone.

For PC: <https://www.netreg.panasonic.co.jp/ipkms/pc/home.htm>

Temporary User ID: kmsadmin_reg

Password: hpynBaxb

* If this temporary User ID and password does not work, go to the above URL to check the latest temporary User ID and password.

For mobile: <https://eww.netreg.panasonic.co.jp/ipkms/m-key/> (To issue the "Registration Key" only.)

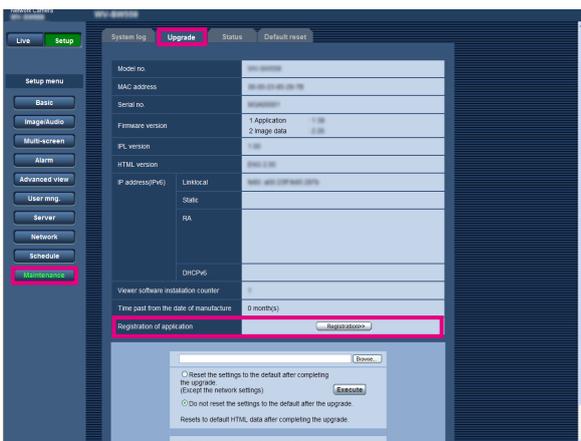
- * Certain mobile phone are not compatible with "Key Management System".
- * You may not access "Key Management System" for server maintenance without notice.

- (3) Please create your User ID and password, if it is the first time to access this system. Please login as a temporary user using the User ID and password written on the web page. Please register required information and create your account.
- (4) Enter the registered User ID and password on the "Key Management System" for login.
- (5) Enter "MPR ID", "Installation Site Information", "Activation Key No." and "Registration ID" by following the instructions displayed on the monitor.
- (6) The Registration Key will be issued. Note it down on the Activation Key Card, and keep the card so as not to lose.

Step 3

Register the Registration Key.

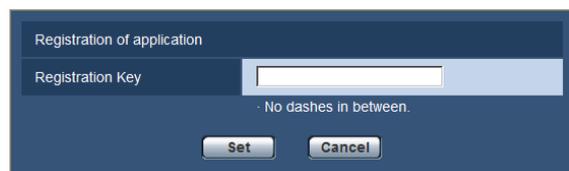
- (1) Access the camera, and display the setup menu - the "Maintenance" page - the [Upgrade] tab by clicking the corresponding buttons and tab.



- (2) Click "Registration of application" - "Registration>>" to display the "Entry information of the key management system" page.



- (3) Click the [Execute] button of "Registration of application" to display the "Registration of application" page.

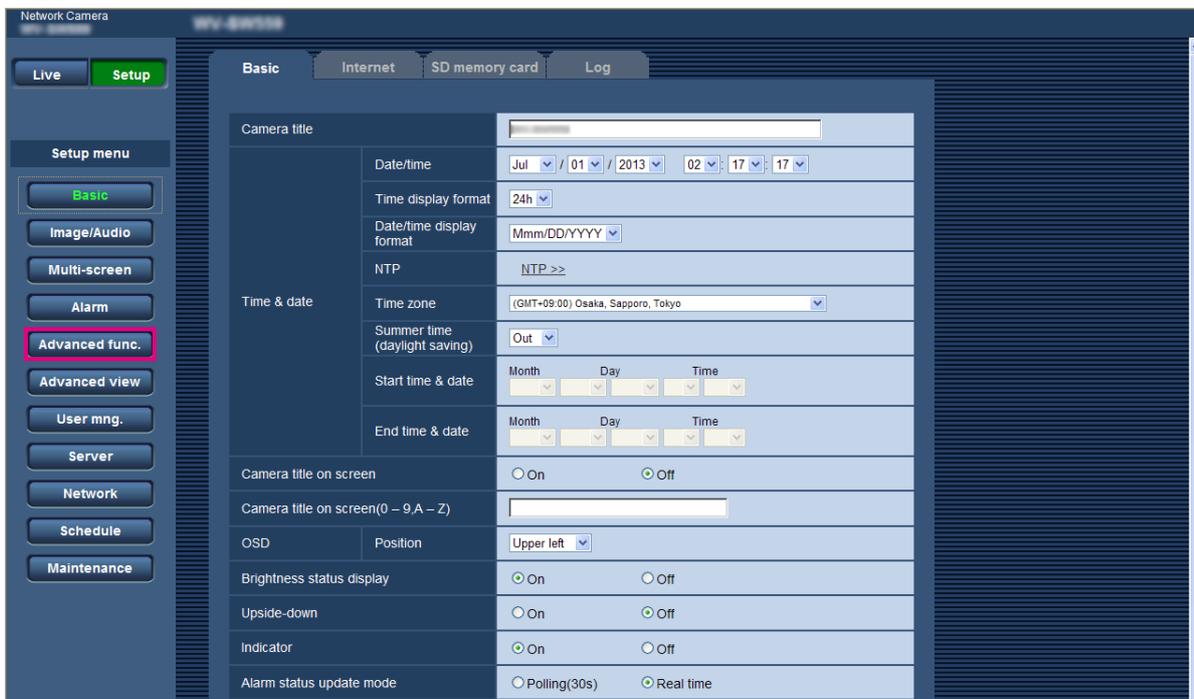


- (4) Enter the Registration Key obtained in Step 2 in the "Registration Key" field, and click the [Set] button. After the Registration Key is registered, the Extension Software will be validated. Enter the Registration Key without the hyphens (-).
* Check the compatible models in the following URL when registering the application.
<http://security.panasonic.com/pss/security/kms>

Advanced func. (Face detection function)

Setup menu

When the application for the advanced func. (face detection function) is added, the [Advanced func.] button will be displayed.



[Advanced func.] button

Display the "Advanced func." page. The settings relating to the XML notification, the destination of information relating to the face detection and the settings relating to the face detection can be configured on the "Advanced func." page.

Configure the setting relating to the image recognition [Advanced func.]

The settings relating to the XML notification and the settings relating to the face detection can be configured on the "Advanced func." page.

The "Advanced func." page has 2 tabs; the [XML notification] tab and the [Face detection] tab.

Configure the settings relating to the XML notification [XML notification]

Click the [XML notification] tab on the "Advanced func." page.

The settings relating to the XML notification can be configured in this section.

The XML notification notifies the server of information such as auto tracking*¹ or face detection in XML format.

XML notification

[XML notification]

Select "On" or "Off" to determine whether or not to notify face detection information using XML.

Default: Off

[Notification data]

Select the type of data notification.

Select one of the following.

- Face data
Off*¹/Detection info.(Original)/Detection info.(Advanced)
Default: Off*¹/Detection info.(Original)
- Auto track data*¹
Off/Detection info.(Advanced)
Default: Off

[Notification interval]

Select the notification interval.

- Face data
1s /2s /3s /4s/ 5s/ 6s/ 10s/ 15s/ 20s/ 30s/ 1min
Default: 1s

Note

- When [Notification data] is set to "Detection info. (Original)", the [Notification interval] can only be set to "1s" or "2s".

- Auto track data*¹

1s /2s /3s /4s/ 5s/ 6s/ 10s/ 15s/ 20s/ 30s/ 1min
Default: 1s

*¹ Available only for cameras compatible with the auto track function

Destination setting for XML notification

[Destination address]

Configure the IP address or the host name of the destination for XML notification.

Available number of characters: 1 - 128 characters

Available characters: Alphanumeric characters, the period (.), the underscore (_), and the hyphen (-).

[Destination port number]

Configure the port number settings for XML notification.

The following port numbers are unavailable since they are already in use.

20, 21, 23, 25, 42, 53, 67, 68, 69, 110, 123, 161, 162, 443, 995, 10669, 10670

[Destination path name]

Configure the settings for the destination directory to be used for the XML notification.

Available characters: Alphanumeric characters, the period (.), the underscore (_), the hyphen (-), the slash (/), and the colon (:).

[User name]

Enter a user name.

Available number of characters: 0 - 32 characters

Unavailable characters: " & ; ; \

Default: None (blank)

[Password]

Enter the password.

Available number of characters: 0 - 32 characters

Unavailable characters: " &

Default: None (blank)

Configure the settings relating to the face detection [Face detection]

Click the [Face detection] tab on the "Advanced func." page.

The settings relating to displaying the frame to be used for the face detection and the settings relating to the face detection information attached to the image can be configured.

Important:

- The face detection function shall not guarantee the detection of faces in an image.
- The face detection accuracy varies with imaging conditions.



Face detection

[Face detection]

Determine whether or not to attach face detection information to images. In addition, determine whether or not to display the detection frame on the "Live" page.

Off: Information about the face detection frame will not be attached to images. No face detection frame will be displayed on the image of this page.

On: Information about the face detection frame will be attached to images and the test frame will be displayed on the image of this page. The face detection frame will not be displayed on the "Live" page.

On with face frame display*1: Information about the face detection frame will be attached to images and the test frame will be displayed on the image of this page. The face detection frame will be displayed on the "Live" page.

Default: Off

*1 The BL series cameras do not support the "On with face frame display" function.

[XML notification]

The destination settings of the face detection information can be configured.

When clicking "XML notification >>", the [XML notification] tab will be displayed. (page 10)

When the application for the i-VMD function is added, it becomes possible to use the i-VMD, which is one of the image recognition functions. It is possible to detect the motion of objects in the shooting area by configuring the detection condition (detection program) in advance. When the motion of an object is detected, a frame or track will be displayed on live images.

It is also possible to specify the range within people move or the size of objects to be detected by configuring the depth.

• Intruder

By configuring the intruder detection area, it is possible to issue an alarm when a moving object enters the area. (To prevent an false alarm, the moving object is required to be detected for 2 seconds* or more.)

Up to 8 objects can be detected simultaneously per channel.

It is impossible to recognize 9 objects or more. (Depending on the size of moving object, less than 8 objects can be detected.)

• Loitering

By configuring the intruder detection area, it is possible to issue an alarm when a moving object enters the area and stays for the specified period. (To prevent an false alarm, the moving object is required to be detected for 10 seconds* or more.)

Up to 8 objects can be detected simultaneously per channel.

It is impossible to recognize 9 objects or more.

• Direction

By configuring the direction detection area and the direction for detection, it is possible to issue an alarm when a moving object enters the area and moves to the specified direction. (To prevent an false alarm, the moving object is required to be detected for 2 seconds* or more.)

Up to 8 objects can be detected simultaneously per channel.

It is impossible to recognize 9 objects or more.

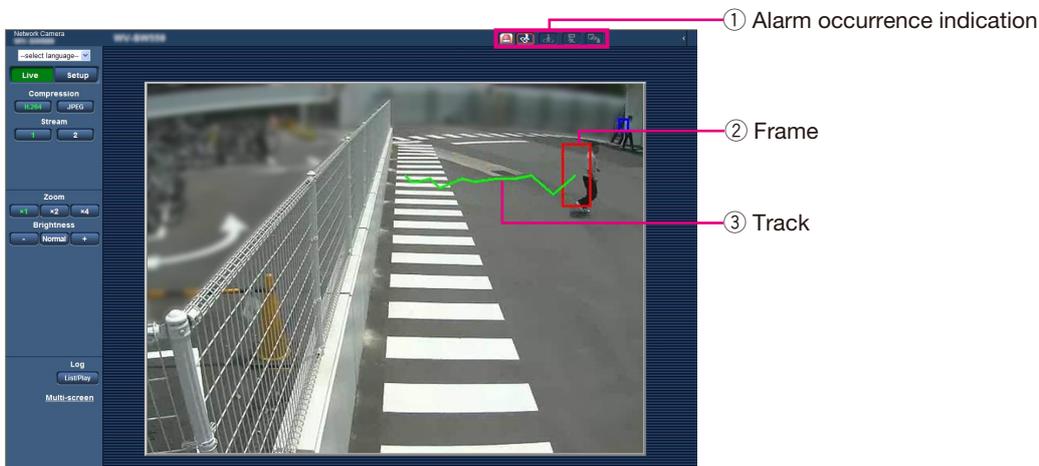
• Scene change

By configuring the scene change detection setting, it is possible to issue an alarm when a camera is covered with something or the camera direction is changed to shoot a different subject. (To prevent an false alarm, the entire scene is required to be changed for 2 seconds* or more.)

* It is possible to change the detection time.

Configure the advanced settings relating to the i-VMD function [Advanced settings] ( page 22)

About "Live" page when the i-VMD function is activated



① Alarm occurrence indication

This indication will light red when the i-VMD function is activated.

By clicking the [>] button beside the indication, it is possible to check the alarm status for each detection type. It is possible to clear the alarm status indication by clicking the alarm occurrence indication again.

At this time, the alarm status for every alarm icon will be cleared.

By clicking the [<] button, it is possible to hide the alarm status for each detection type.

-  : Intruder
-  : Loitering
-  : Direction
-  : Scene change

② Frame

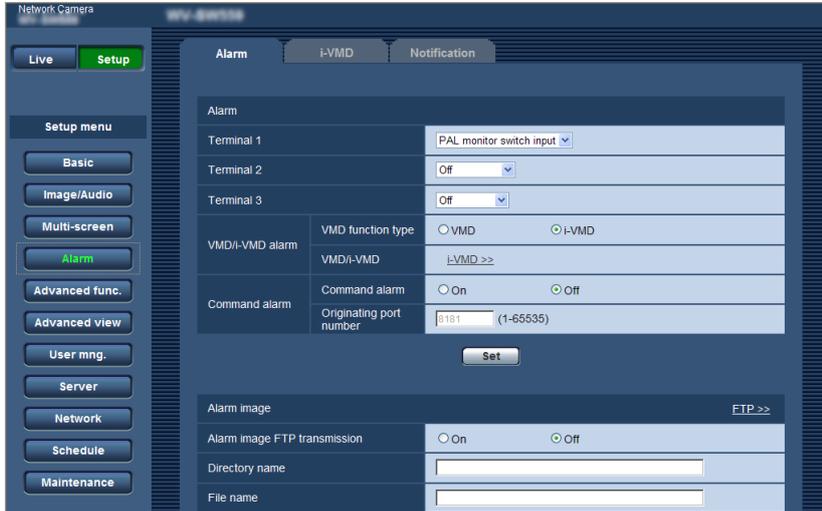
Blue frame will be displayed when a moving object is detected in the shooting area. The frame will turn red when the detected moving object enters the detection area that has been set, and an alarm occurs. It is possible to display or hide the frame and the track by configuring the settings for "i-VMD information addition" on the [i-VMD] tab.

③ Track

The track of motion made by the detected moving object will be displayed in green. The track will be displayed for 3 seconds. It is possible to display or hide the frame and the track by configuring the settings for "i-VMD information addition" on the [i-VMD] tab.

Enable the i-VMD function [Alarm]

To enable the i-VMD function, configure the VMD function type setting on the [Alarm] tab of the "Alarm" page.



[VMD function type]

Determine to use the conventional VMD function or the i-VMD function.

It is impossible to use both of them simultaneously.

VMD: Enables the conventional VMD function.

i-VMD: Enables the i-VMD function.

Default: VMD

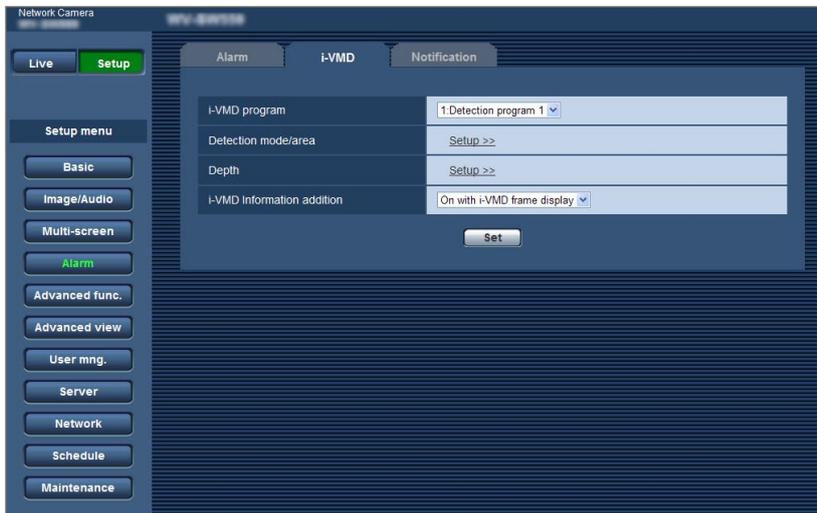
[VMD/i-VMD]

When clicking "i-VMD >>", the [i-VMD] tab will be displayed. This link is displayed when "i-VMD" is selected for "VMD function type".

Configure the settings relating to i-VMD [i-VMD]

Click the [i-VMD] tab on the "Alarm" page.

The settings relating to the i-VMD action, detection areas, depth, i-VMD information addition, frame and track can be configured on the "i-VMD" page.



[i-VMD program]

Configure the settings relating to the i-VMD action.

Off: Disables the i-VMD action.

1:Detection program 1: Performs the i-VMD action based on the conditions set for "Detection program 1".

2:Detection program 2: Performs the i-VMD action based on the conditions set for "Detection program 2".

Schedule: Performs the i-VMD action based on the conditions set on the "Schedule" page.

Default: 1:Detection program 1

[Detection mode/area]

When clicking "Setup >>", the setup page relating to the detection mode/area will be displayed.

The settings relating to detection areas, detection types, mask areas and scene change ON/OFF for "1:Detection program 1" and "2:Detection program 2" can be configured on this page.

[Depth]

When clicking "Setup >>", the setup page relating to the depth will be displayed. The markers for the depth settings can be configured on this page.

[i-VMD information addition]

Determine whether or not to attach the i-VMD information to images and whether or not to display the frame and track on live images. When "On with i-VMD frame display" is selected, a blue frame will be displayed when a moving object is detected in the shooting area. The frame will turn red when the detected moving object enters the detection area that has been set, and an alarm occurs. In addition, the track of motion made by the detected moving object will be displayed in green.

The track will be displayed for 3 seconds.

Alarm actions will not be affected even when "Off" is selected for "i-VMD information addition" or the i-VMD frame display.

Off: The i-VMD information will not be attached. No frame or track will be displayed on live images.

On: The i-VMD information will be attached, but no frame or track will be displayed on live images.

On with i-VMD frame display: The i-VMD information will be attached, and the frame and track will be displayed on live images.

Default: On with i-VMD frame display

Note

- When a cropping image or sub window image is displayed on live images, no frame or track will be displayed.
-

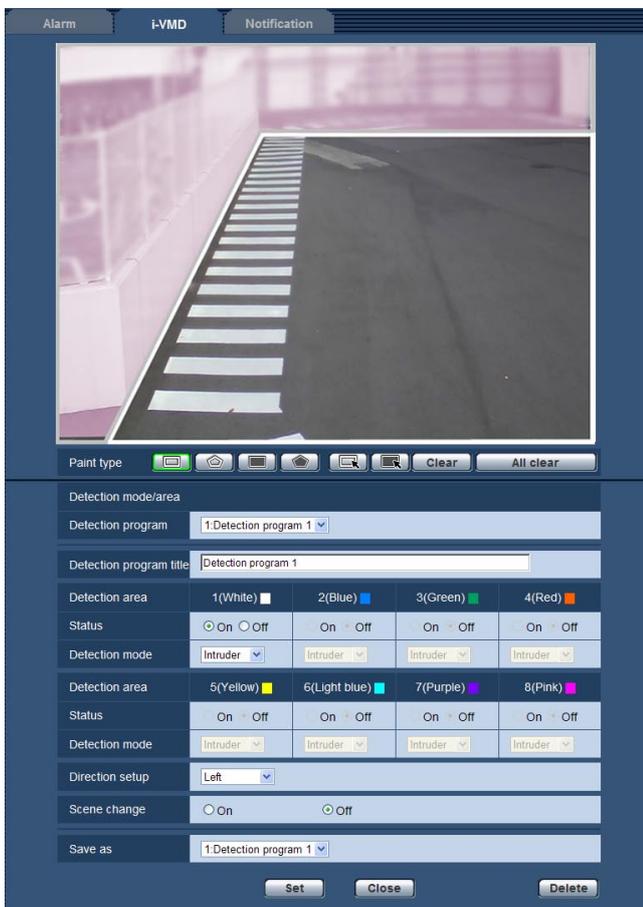
Configure the settings relating to the detection mode/area [Detection mode/area]

Configure the settings relating to the detection conditions (detection programs).

Up to 2 types of detection programs can be configured and saved as "Detection program 1" and "Detection program 2". In addition, up to 8 detection areas and up to 8 mask areas can be specified for each detection program. As the detection type, it is possible to select "Intruder", "Loitering" or "Direction".

Important:

- When the motion of objects is detected using the i-VMD function, the alarm occurrence indication will be displayed for the alarm status check.
- The indication will also be displayed when a terminal alarm input or command alarm input is received.
- Depending on the network environment, the notification may be delayed even when "Real time" is selected for "Alarm status update mode" on the [Basic] tab of the "Basic" page.
- The i-VMD detection areas may be deviated if the "Image capture mode" setting on the [JPEG/H.264] tab of the "Image/Audio" page is changed after the detection area setting. Be sure to check the i-VMD detection area setting again.
- The i-VMD detection areas may be deviated if the "Extra optical zoom" setting is changed after the detection area setting. Be sure to check the i-VMD detection area setting again.
- i-VMD is not a function to prevent theft or fire. In no event shall Panasonic System Networks Co., Ltd. be liable to any party or any person for any accidents or loss.



Step 1

Select the desired detection program from "Detection program".

→ The settings for the selected detection program will be displayed.

Note

- The title will be displayed for "Detection program" if a title has been set for the program. If no title has been set for the program, the default title ("Detection program 1" or "Detection program 2") will be displayed.

Step 2

When changing the title of the detection program from the default, enter the desired title in the "Detection program title" field.

Available number of characters: 1 - 20 characters
(A blank will automatically be changed to the default setting.)

Default: "Detection program 1" - "Detection program 2"

Step 3

Specify the areas to detect the motion of objects using the i-VMD function.

Up to 8 detection areas can be specified.

When the motion of objects is detected in the specified areas, an alarm action will occur.

Select the shape of frame by clicking "Detection area(Quadrangle)" or "Detection area(Polygon)" of "Paint type".

 (Detection area(Quadrangle)): Paints a quadrangle detection area.

 (Detection area(Polygon)): Paints a polygon detection area. (It is possible to designate up to 16 apexes.)

When selecting "Detection area(Quadrangle)", set a square area by dragging the mouse on the screen.

When selecting "Detection area(Polygon)", set a polygonal area by designating the apexes on the screen. The detection area is painted by connecting start points and end points.

→ The designated area will be set for "1(White)", and a white frame will be displayed. The areas will be set in the order of detection area numbers. The color name beside each detection area number represents the frame color. In addition, the "Status" for the corresponding frame will automatically be changed to "On".

Note

- When deleting the detection area, click the  icon of "Paint type", select the frame on the screen by the mouse, and click the [Clear] button.
- If two or more detection areas are overlapped, click the overlapped area by the mouse. The selected frame will be sequentially switched.
- When clicking the [All clear] button, all the frames for the designated detection areas and mask areas will be deleted.
- When setting each detection area, adjust the detection frame so that the bottom center is included in the area.

Step 4

Select "On" or "Off" to determine whether or not to activate the i-VMD function for the designated detection areas.

On: Activates the i-VMD function.

Off: Does not activate the i-VMD function.

Default: On

When "Off" is selected for "Status" of "Detection Area", the color frame on the deactivated area will be changed to a dotted frame. When "Off" is selected, no alarm will occur even when some change happens in the detection area.

Step 5

Specify the i-VMD types for the designated detection areas. One of the following can be selected for the i-VMD type for each detection area. By configuring two or more detection areas with different detection types, it is possible to activate two or more types of i-VMD function simultaneously.

Intruder: When a moving object enters the detection area that has been set, an alarm occurs.

Loitering : When a moving object enters the detection area that has been set and stays for the specified period, an alarm occurs.

Direction : When a moving object enters the detection area that has been set and moves to the specified direction, an alarm occurs.

Default: Intruder

Step 6

By configuring mask areas, it is possible to designate the areas not to activate the i-VMD function. Up to 8 mask areas can be specified.

No moving objects will be detected in the mask areas that have been set.

Select the shape of frame by clicking "Detection area(Quadrangle)" or "Detection area(Polygon)" of "Paint type".

 (Detection area(Quadrangle)): Paints a quadrangle mask area.

 (Detection area(Polygon)): Paints a polygon mask area. (It is possible to designate up to 16 apexes.)

When selecting "Detection area(Quadrangle)", set a square area by dragging the mouse on the screen. When selecting "Detection area(Polygon)", set a polygonal area by designating the apexes on the screen. The mask area is painted by connecting start points and end points.

Note

- When deleting the mask area, click the  icon of "Paint type", select the frame on the screen by the mouse, and click the [Clear] button. If two or more mask areas are overlapped, click the overlapped area by the mouse. The selected frame will be sequentially switched.
- When clicking the [All clear] button, all the frames for the designated detection areas and mask areas will be deleted.

Step 7

Select the direction to activate the i-VMD function from "Direction setup". When a moving object enters the detection area that has been set and moves to the specified direction, an alarm occurs. One of the following can be selected for the i-VMD direction. If the direction detection is configured for two or more detection areas, the available direction is common among all the areas.

Up: An alarm occurs when a object moves to the upper direction.

Upper right: An alarm occurs when a object moves to the upper right direction.

Right: An alarm occurs when a object moves to the right direction.

Lower right: An alarm occurs when a object moves to the lower right direction.

Lower: An alarm occurs when a object moves to the lower direction.

Lower left: An alarm occurs when a object moves to the lower left direction.

Left: An alarm occurs when a object moves to the left direction.

Upper left: An alarm occurs when a object moves to the upper left direction.

Default: Left

Note

- When several detection targets cross with each other, the i-VMD function may not be activated or may be falsely activated. Use the i-VMD function for places where the crossing of detection target rarely occurs.

Step 8

Select "On" or "Off" to determine whether or not to activate the scene change detection. The scene change detection will be activated for the entire shooting area. It is impossible to set detection areas or mask areas.

Default: Off

Step 9

Select the number for the detection program to save the detection conditions configured in Step 1 - 8. Usually, the number for the detection program selected in Step 1 is active. To select the detection program that has been set in Step 1 and save the changed settings as another detection program, select the desired program number.

Step 10

After the detection condition setting, click the [Set] to save the settings.

When clicking the [Close] button, the changed settings will not be saved and the [i-VMD] tab will be displayed again.

To save the changed settings, click the [Set] button, and then click the [Close] button.

Note

- When clicking the [Delete] button, all the settings for the detection program currently displayed will be deleted and reset to the default. The confirmation dialog will be displayed before the settings are deleted. To execute the deletion, click the [OK] button.

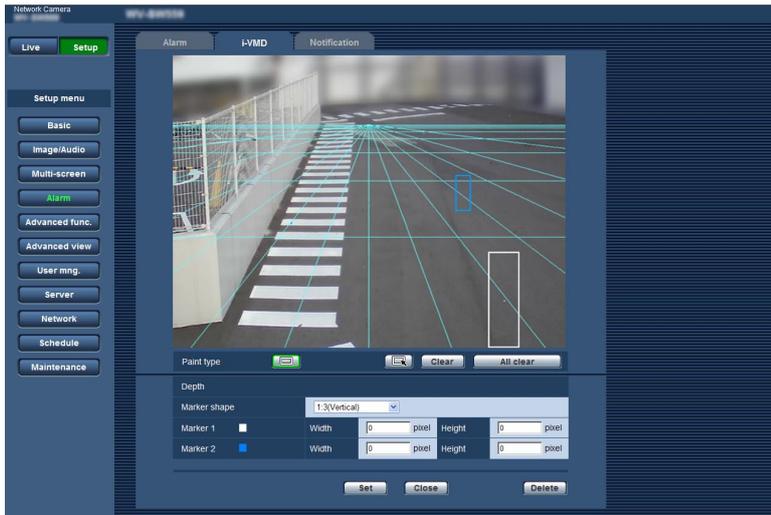
After the detection condition setting, configure the depth settings.

Set the detection depth

Configure the settings relating to the detection depth. The detection depth settings are common between "Detection program 1" and "Detection program 2".

Important:

- Be sure to configure the detection depth settings. Otherwise, false detection may occur.
-



Step 1

Click "Depth area(Quadrangle)" of "Paint type" to enable the marker painting. Draw a marker by dragging the mouse between the front side and rear side on the screen.

Note

- By dragging the mouse up and down, the size of marker will become larger or smaller. (The horizontal to vertical ratio 1:3, 1:1 or 3:1 can be selected from "Marker shape".)
 - When deleting the detection area, click "Depth area(Select)" of "Paint type", select the frame on the screen by the mouse, and click the [Clear] button.
 - When clicking the [All clear] button, all the markers that have been set will be deleted.
 - Assuming that people go forward and backward, draw the larger marker for the nearer object (lower area in the image) and the smaller marker for the farther object (upper area in the image). Either Marker 1 or 2 can be used for the nearer object.
-

When a marker is drawn, the corresponding width and height will be shown as values. (The values are equal to the numbers of pixels of a VGA screen.) By entering the desired width and height, it is possible to change the size of displayed marker. In this case, the marker display will be refreshed according to the entered values.

Note

- If the markers are designated as follows, the setting will be invalid. Retry the setting again.
 - When the marker for the nearer object is larger than that for the farther object
 - When the markers for the nearer and farther objects are the same size
 - When the width or height is smaller than the minimum detection size or larger than the maximum detection size
-

Step 2

After drawing the markers, click the [Set] button.

→ Calculation result is displayed in 3D on the screen and the settings will be saved.

When clicking the [Close] button, the changed settings will not be saved and the [i-VMD] tab will be displayed again.

To save the changed settings, click the [Set] button, and then click the [Close] button.

Note

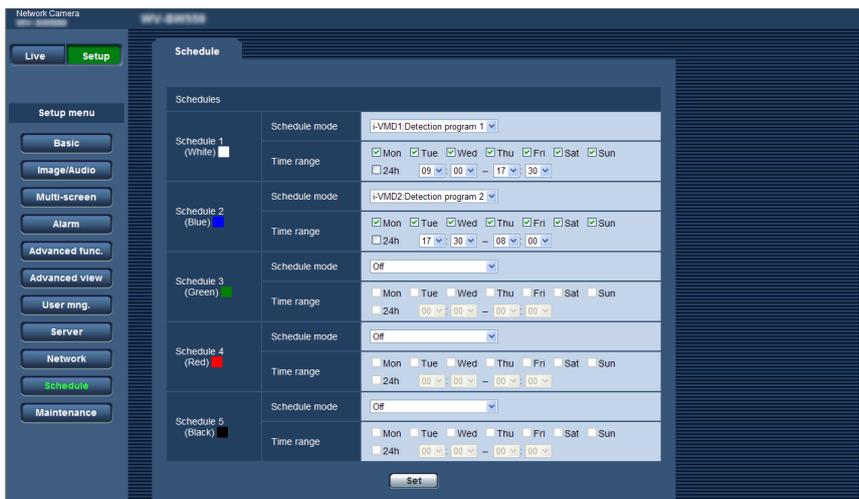
- When clicking the [Delete] button, all the detection depth settings will be deleted and reset to the default.
- The confirmation dialog will be displayed before the settings are deleted. To execute the deletion, click the [OK] button.
- In the default status without the detection depth settings, any objects will be detected regardless of their sizes.
- No object will be detected in the area above the vanishing line (horizon) on the 3D display.

Set the i-VMD schedule [Schedule]

It is possible to configure the i-VMD schedule settings on the "Schedule" page.

This manual only describes the schedule settings for the i-VMD function.

For further information about the basic settings for the schedule, refer to the operating instructions of the cameras in use.



It is possible to select the schedule mode and detection program from "Schedule mode". Either of the following schedule modes is available.

i-VMD1: Activates the i-VMD function for "Detection program 1" according to the designated schedule.

i-VMD2: Activates the i-VMD function for "Detection program 2" according to the designated schedule.

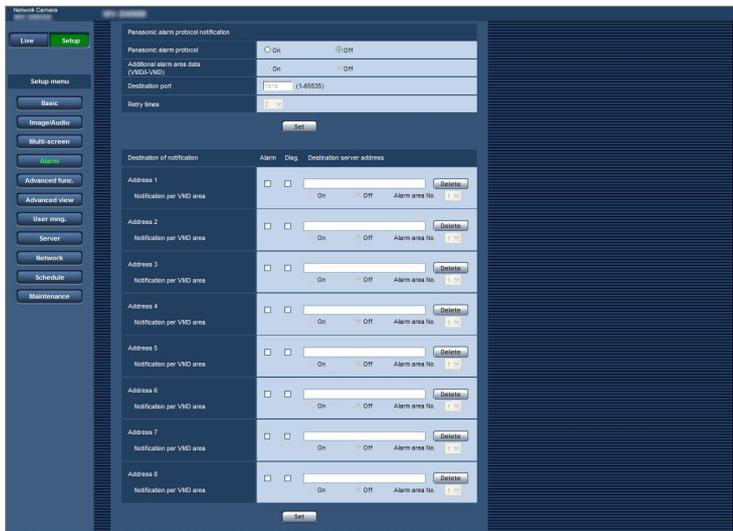
Note

- To enable "i-VMD1" or "i-VMD2", select "i-VMD" for "VMD function type" on the [Alarm] tab of the "Alarm" page.
- The i-VMD action that is set on the "Schedule" page is available only when "Schedule" is selected for "i-VMD program" on the [i-VMD] tab. In other cases, the i-VMD function will be activated based on the conditions set for "Detection program 1" or "Detection program 2". (When "Off" is selected, the i-VMD function will be deactivated.)

Configure the settings relating to Panasonic alarm protocol [Panasonic alarm protocol]

This manual only describes the On/Off of the extensive alarm information.

For further information about the basic settings for the Panasonic alarm protocol, refer to the operating instructions of the cameras in use.



Panasonic alarm protocol notification

[Additional alarm area data (VMD/i-VMD)]

Select "On" or "Off" to determine whether or not to notify the detected i-VMD type using the extension command format of the Panasonic alarm protocol.

Off: Does not notify the detected i-VMD type. The conventional basic format will be used.

On: Notifies the detected i-VMD type. The extension command format will be used.

Default: Off

Note

- "Notification per VMD area" of "Destination of notification" is unavailable when the i-VMD function is enabled.
-

Configure the advanced settings relating to the i-VMD function [Advanced settings]

The settings relating to the detection sensitivity, detection time and detection size can be configured on this page.

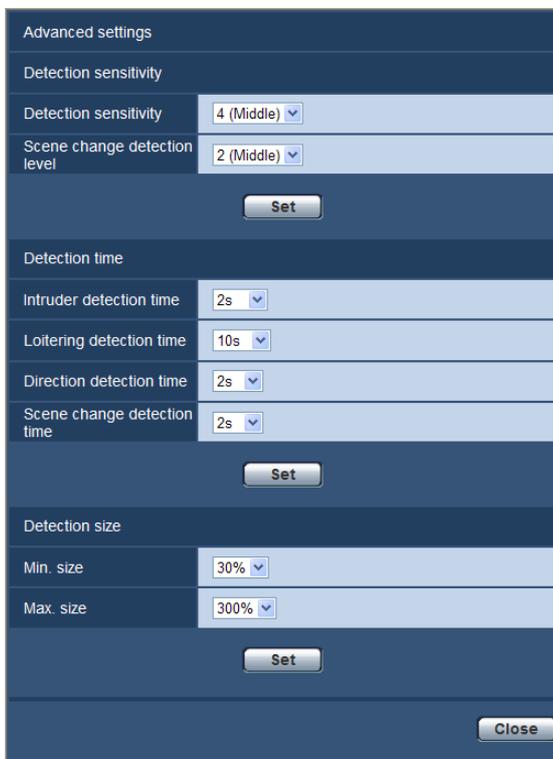
It is impossible to display the page from the setup menu.

Enter the following URL on the web browser.

http://(the IP address of the camera)/admin/setup_ivmd_detail.html

Important:

- Depending on the advanced settings, the detection accuracy may become lower. Check the images carefully on the "Live" page.



Advanced settings	
Detection sensitivity	
Detection sensitivity	4 (Middle)
Scene change detection level	2 (Middle)
<input type="button" value="Set"/>	
Detection time	
Intruder detection time	2s
Loitering detection time	10s
Direction detection time	2s
Scene change detection time	2s
<input type="button" value="Set"/>	
Detection size	
Min. size	30%
Max. size	300%
<input type="button" value="Set"/>	
<input type="button" value="Close"/>	

Detection sensitivity

[Detection sensitivity]

Select the detection sensitivity setting for the intruder detection.

The greater the value is, the higher the detection sensitivity becomes. The setting is common among all the detection programs, areas and detection types.

1 (Low), 2, 3, 4 (Middle), 5, 6, 7 (High)

Default: 4 (Middle)

[Scene change detection level]

Select the detection sensitivity setting for the scene change detection.

The greater the value is, the higher the detection sensitivity becomes.

The setting is common among all the detection programs.

1 (Low), 2 (Middle), 3, 4, 5 (High)

Default: 2 (Middle)

Detection time

[Intruder detection time]

Select the time to issue an alarm since an object is detected in the intruder detection area.

0.2s/ 0.4s/ 1s/ 2s/ 5s/ 10s

Default: 2s

[Loitering detection time]

Select the time to issue an alarm since an object stays in the loitering detection area.

10s/ 20s/ 30s/ 1min/ 2min/ 3min/ 5min

Default: 10s

[Direction detection time]

Select the time to issue an alarm since an object moves to the specified direction in the direction detection area.

1s/ 2s/ 5s/ 10s

Default: 2s

[Scene change detection time]

Select the time to issue an alarm since the entire scene is changed when the scene change detection is enabled.

1s/ 2s/ 5s/ 10s

Default: 2s

Detection size

[Min. size]

Select the minimum size of objects to be detected.

Determine the area ratio to the reference size (the size of an object based on the depth settings).

10%/ 20%/ 30%/ 40%/ 50%/ 60%/ 70%/ 80%/ 90%

Default: 30%

[Max. size]

Select the maximum size of objects to be detected.

Determine the area ratio to the reference size (the size of an object based on the depth settings).

100%/ 150%/ 200%/ 250%/ 300%

Default: 300%

For U.S. and Canada:

**Panasonic System Communications Company of North America,
Unit of Panasonic Corporation of North America**

www.panasonic.com/business/
For customer support, call 1.800.528.6747
Three Panasonic Way, Secaucus, New Jersey 07094 U.S.A.

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Canada
(905)624-5010
www.panasonic.ca

For Europe and other countries:

Panasonic Corporation

<http://panasonic.net>

Importer's name and address to follow EU rules:

Panasonic Testing Centre
Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, Germany