

Canon

High-performance Monitoring Software

Web View
LivescopeMV

User's Manual

Ver.2.1

Introduction

Thank you for purchasing WebView Livescope MV Ver. 2.1. Please read this manual prior to use to ensure that you will be able to use this software effectively. When you finish reading this manual, please store it in a safe place.

The latest product information is available at the following Web site.
<http://www.canon.com/webview/>

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Icons Used in This Manual



Note

Indicates notes of caution or limitations that must be kept in mind concerning operation. Be sure to read these notes.



Tip

Indicates supplemental explanations or references that are useful for operation.



Indicates functions and specifications that are only available to VB150 users.

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Overview

WebView Livescope MV Ver. 2.1 is software that allows you to use an Intranet or the Internet to monitor images distributed from the Network Camera Server VB150/VB101 or the Network Camera VB-C10/VB-C10R (hereafter referred to in this manual as "camera server").

This software consists of two packages: WebView Livescope MV Manager, that lets you create monitoring screens or have centralized control of several camera servers; and WebView Livescope MV Station, that lets you monitor images from cameras in multiple locations and easily download, view, save, and manage pictures recorded in the camera server.

Since MV Manager uses the wizard format for registering camera servers or creating monitoring screens, there is no need to learn complex operations. You can also have centralized control (changing settings or confirming operating conditions) of camera servers installed in multiple locations.

Monitoring screens can be created by selecting from a rich variety of screen styles to best suit the size of the monitor, the number of camera servers and cameras, and monitoring objectives. It is also possible to perform such tasks as editing maps, changing the allocation of camera servers on the maps, or making settings for automatic operation based on schedules.

MV Station lets you access MV data created in MV Manager, freely remote control cameras, and simultaneously view images from camera servers installed in multiple locations (up to 16 locations), providing an efficient monitoring environment.

In MV Station, you can easily view and manage still pictures recorded by the camera server's picture recording function and automatically download them. Smoother and more accurate monitoring is possible due to functions that simplify access procedures for downloading recorded pictures or that display only the images that have been changed.

* When using VB101, upgrade the firmware to version 3.0.



Tip

Changes from MV Ver. 2.0 to Ver. 2.1 are as follows:

Added support for the Network Camera Server VB150

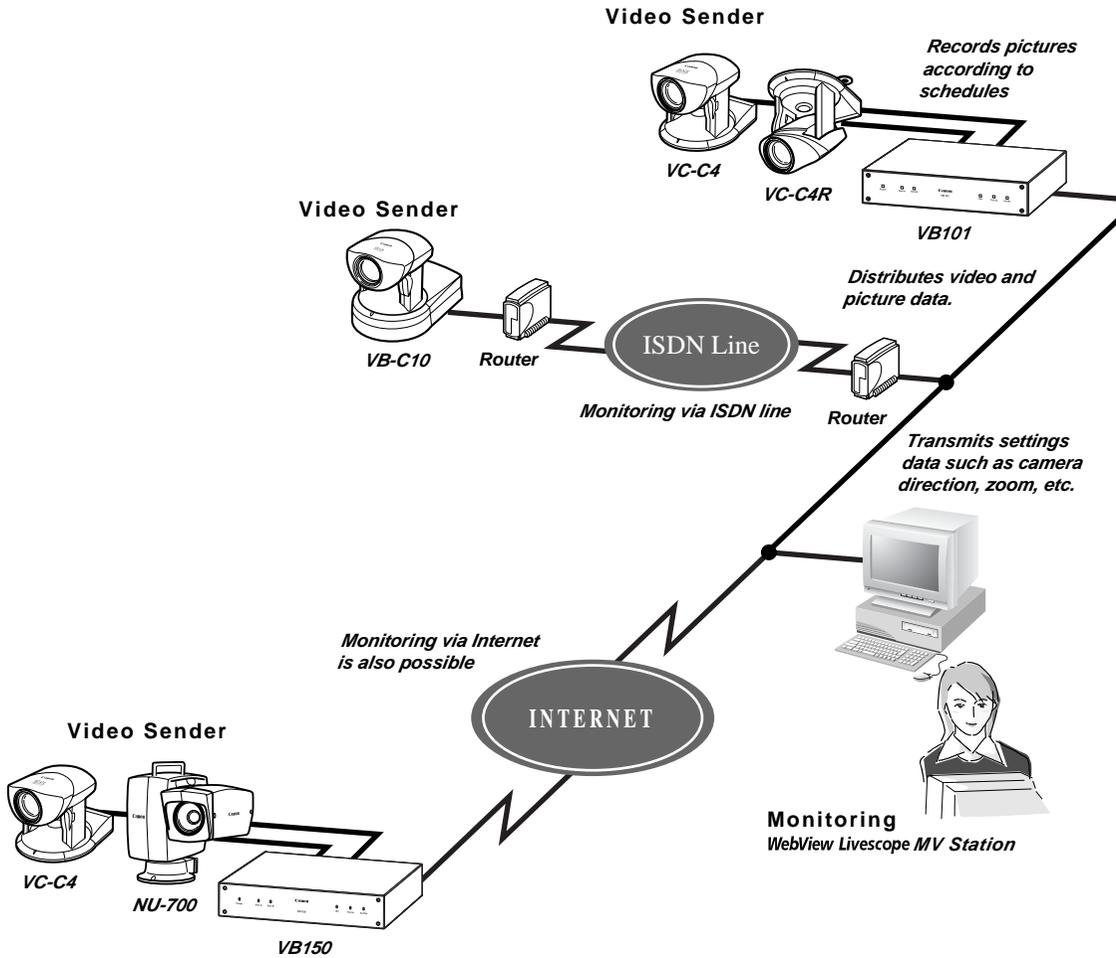
Canon Remote Control Pan-tilt Head NU-700 (see p. 59)

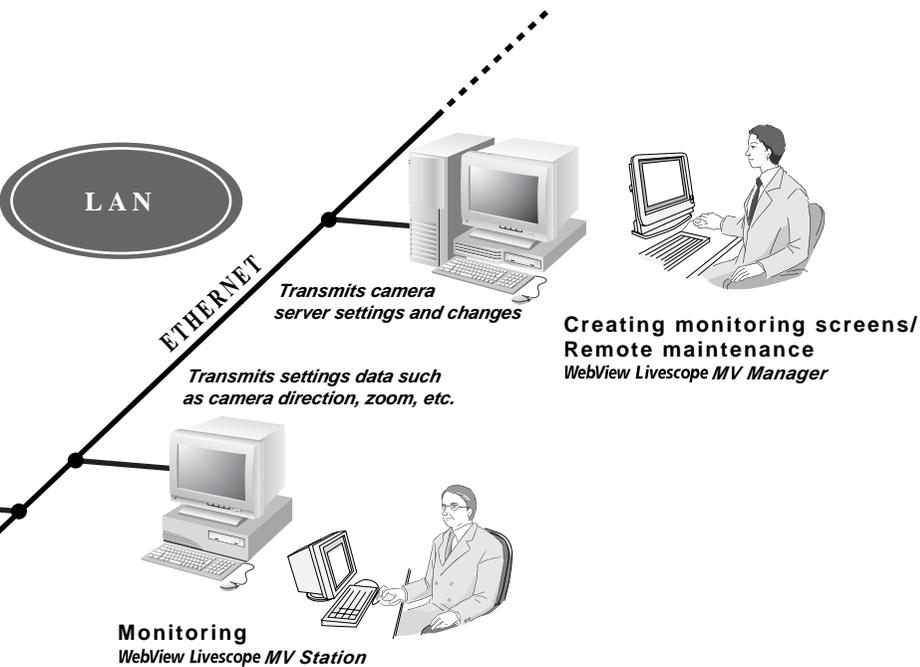
The VB150 with the Video Input set to Multiple (see p. 77)

Motion detection function (see p. 80)

System Configuration

MV Manager and MV Station connect to camera servers via TCP/IP. Connections can also be made over the Internet or an Intranet.





■ Application Types and Functions

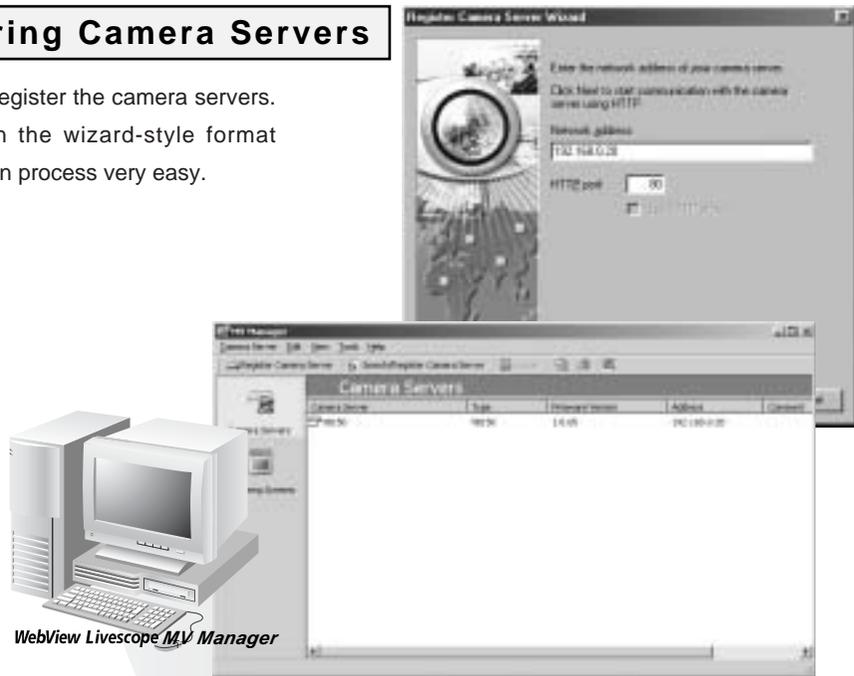
Application	Function
WebView Livescope MV Manager	Lets users create and edit monitoring screens (MV data) to be used in MV Station. Remote centralized control of several camera servers is also possible.
WebView Livescope MV Station	Lets users monitor images from several cameras from monitoring screens created in MV Manager. Downloading, viewing and saving of pictures recorded in the camera servers are also possible.

Tasks To Perform Prior To Monitoring

Before you can start monitoring, you need to perform the required settings as described in "Registering Camera Servers" (Chapter 2), "Creating Monitoring Screens" (Chapter 3), and "Exporting MV Data" (Chapter 4).

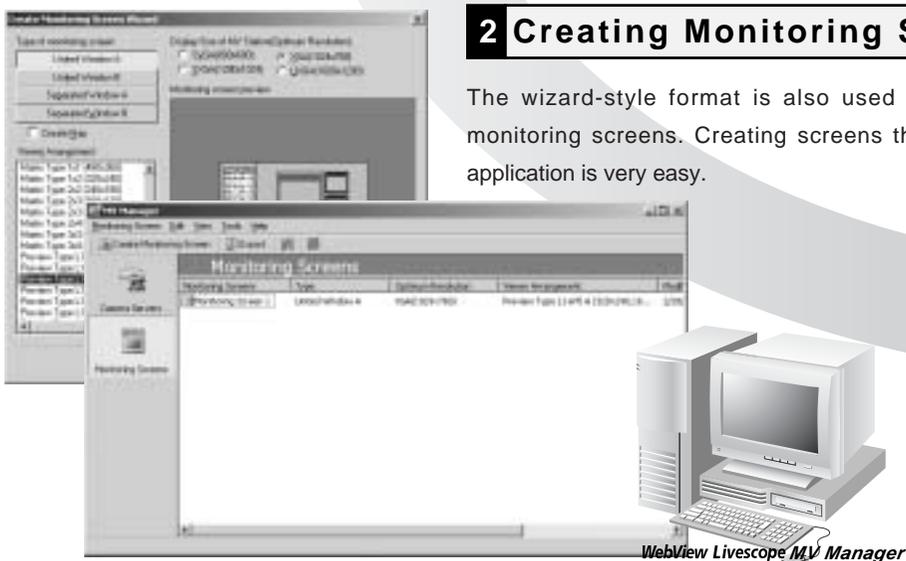
1 Registering Camera Servers

The first step is to register the camera servers. The procedures in the wizard-style format make the registration process very easy.

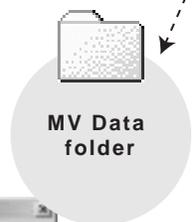


2 Creating Monitoring Screens

The wizard-style format is also used for creating monitoring screens. Creating screens that suit your application is very easy.



4 Monitoring



3 Exporting MV Data

You must create an MV Data folder and perform a task known as Exporting in order to view images on the monitoring screen. Monitoring is possible by accessing this MV Data folder.



WebView Livescope MV Manager

Operating Environment

WebView Livescope MV Manager

CPU	Pentium III 600 MHz or better
Operating System	Windows Me/ Windows 2000 (Service Pack 1 or later)/ Windows XP
Web Browser	Internet Explorer 5.0 or later required
Memory	128 MB or better
Hard Disk	Available space of 50 MB or better
Monitor	XGA (1024 × 768) or better with high-resolution 16-bit color display or better

WebView Livescope MV Station

CPU	Pentium III 600 MHz or better
Operating System	Windows Me/ Windows 2000 (Service Pack 1 or later)/ Windows XP
Web Browser	Internet Explorer 5.0 or later required
Memory	128 MB or better
Hard Disk	Available space of 50 MB or better
Monitor	SVGA (800 × 600) or better with high-resolution 16-bit color display or better



Note

When using VB101, upgrade the firmware to version 3.0. The firmware is available for free at the following Web site:

<http://www.canon.com/webview/>

Chapter 1

Installing

First, you need to install **WebView Livescope MV Manager** and **WebView Livescope MV Station**.

Prior to Installation...

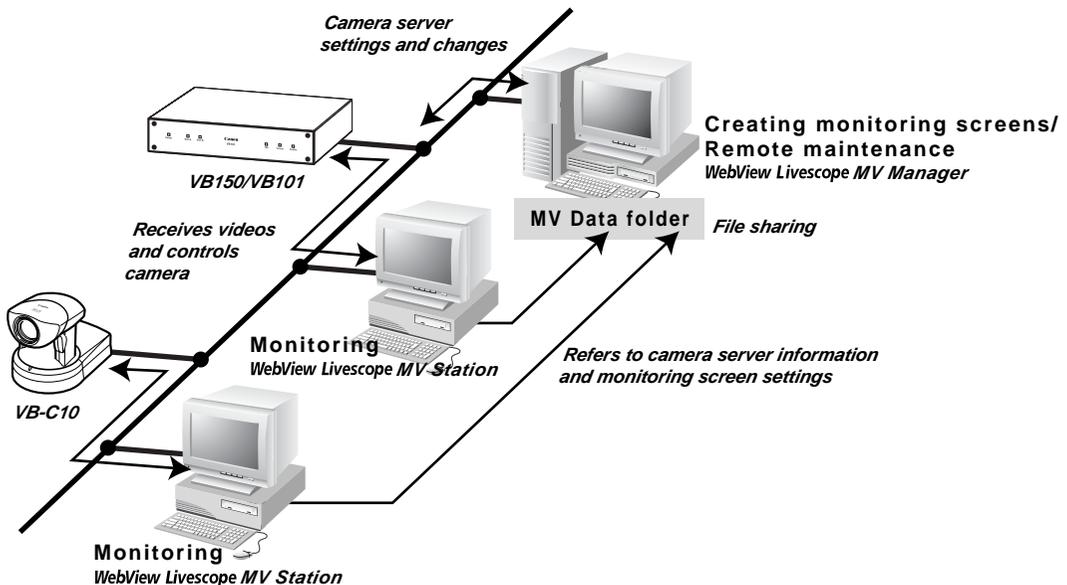
Check the System Configuration

When Monitoring with One PC



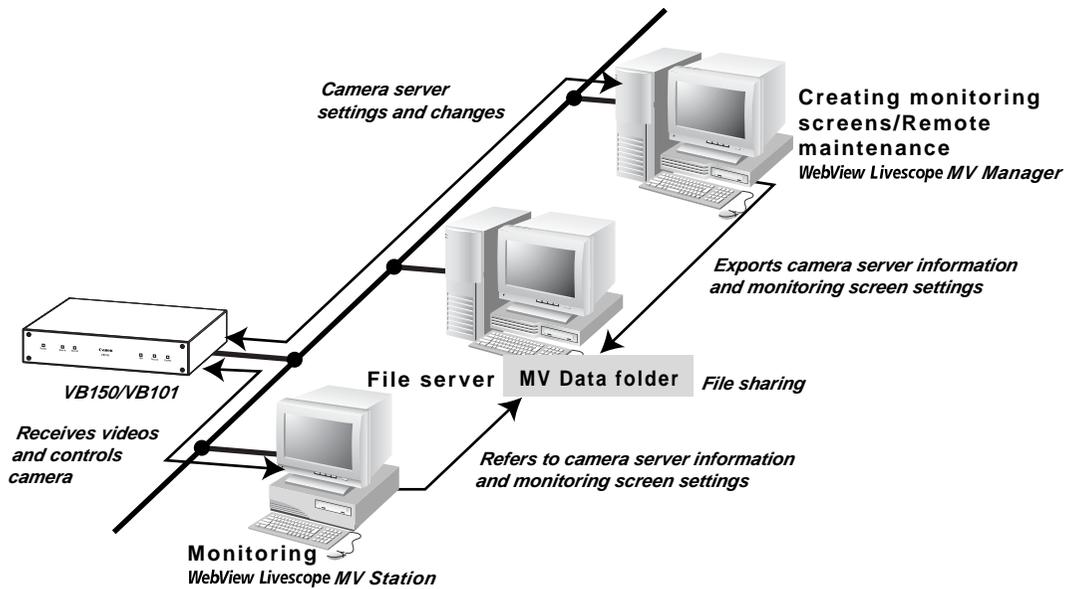
Install MV Manager. MV Station will also be installed automatically (see p. 15).

When Using Several MV Stations



Install MV Manager in one PC and MV Station in several PCs. MV Manager exports information for monitoring into the MV Data folder for MV Station to access. MV Station accesses the files exported to this MV Data folder in order to display images from the cameras on the monitoring screens.

If several MV Stations are used and MV Data folders are placed in locations other than the PC where MV Manager is installed



If you want to access the MV Data folder from an environment (outside the same LAN) in which it cannot be shared, place it and make it available in a file server where it can be accessed. In this case, before starting installation, the PC in which the MV Data folder is to be placed must be set so that the folder can be shared. Prepare a folder and set it to Share so that it can be accessed over the network from the PC where MV Station is installed.

Preparing the Computers

- At the PC where MV Manager is to be installed, set the screen resolution to XGA (1024 × 768) or higher.
- At the PC where MV Station is to be installed, set the screen resolution to SVGA (800 × 600) or higher. Be sure the resolution that you set is the same or higher than the optimum resolution of the monitoring screens created in MV Manager (see p. 30).



Display Properties

Installing the Camera Servers

First, you need to check your camera server. If the VB-C10/VB-C10R or VB150 is being used, there is no need to upgrade the firmware. However, if the VB101 is being used, check that the firmware version is 3.0 or later. See page 10 for details about the firmware upgrade.

Check to be sure the camera server has been correctly installed and that the initial settings (network settings) have been made. Then connect to the network. You can perform detailed settings or view tests from MV Manager. For procedures on installing and setting up the camera server, please see the manual supplied with the camera server.



Note

- "Maximum Number of Clients" must be set to five or more for the VB150 (or VB101) and to two or more for the VB-C10/VB-C10R. To make settings for the VB101, use the "Application Settings Page", and for the VB150 or VB-C10/VB-C10R, use the "WebView Livescope Settings Page". While default settings meet the above requirements, the settings must be checked if any changes have been made.
- If a connection was made from MV Station via a proxy server, notification of external device input (see p. 78), external device output control (see p. 79), notification of motion detection (see p. 80) as well as the External Device Input Log Viewer (see p. 98) will not work.

Installation Procedures

Starting Up the Installer



When you place the mouse cursor on these buttons, explanations about them appear below the cursor.

When you load the WebView Livescope MV Ver. 2.1 installer CD-ROM into the PC, the main panel of the installer automatically appears. If it does not appear, in Explorer, double-click "mv2setup.exe" on the CD-ROM.

Click the buttons to start up the installer and proceed with installation.

● Install MV Manager

This button installs both MV Manager and MV Station. This setup is for administrators who manage the camera servers and create monitoring screens.

● Install MV Station

This button installs MV Station only. This setup is for operators who view monitoring screens.



Note

This product consists of MV Manager and MV Station for one client. If additional MV Station installations are required, please purchase separate MV Station licenses.

Installing MV Manager

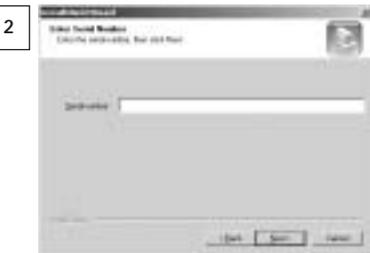


When you click the Install MV Manager button on the main panel, the installer starts up and the process of installing MV Manager begins. Click Next to continue the installation.



Note

If you are installing WebView Livescope MV Ver. 2.1 into a PC in which Ver. 1.0 is already installed, information such as the camera servers and monitoring screens that were registered and set with Ver. 1.0 cannot be used with Ver. 2.1. However, if Ver. 2.0 is installed, the information registered and set with Ver. 2.0 can be used with Ver. 2.1.



Enter the Serial number and click Next. The Serial number is indicated on the seal attached outside the software package.



A screen appears where you can specify a folder in which MV Manager is to be installed. To specify a folder other than the one indicated, click Browse and select the folder you want. When the folder has been specified, click Next.



Specify a name to be registered in the Program menu under the Start menu, then click Next.

5



Check the items you have specified and selected thus far, then click Next. The installation will be performed by copying files and setting the registry.

6



When installation is complete, click Finish to exit the installer.

Installing MV Station

1



When you click the Install MV Station button on the main panel, the installer starts up and the process of installing MV Station begins. Click Next to continue the installation.



Note

If you are installing WebView Livescope MV Ver. 2.1 into a PC in which Ver. 1.0 is already installed, information such as the work folders that were set with Ver. 1.0 cannot be used with Ver. 2.1. However, if Ver. 2.0 is installed, the information registered and set with Ver. 2.0 can be used with Ver. 2.1.

2



Enter the Serial number and click Next. The Serial number is indicated on the seal attached outside the software package.



A screen appears where you can specify a folder in which MV Station is to be installed.

To specify a folder other than the one indicated, click Browse and select the folder you want.

When the folder has been specified, click Next.



Specify a name to be registered in the Program menu under the Start menu, then click Next.



Check the items you have specified and selected thus far, then click Next. The installation will be performed by copying files and setting the registry.

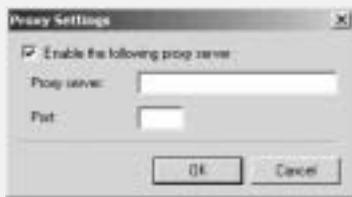


When installation is complete, click Finish to exit the installer.



Note

- After MV Manager and MV Station have been installed, make the following settings if connections are to be made via a proxy server.



To make proxy settings, in MV Manager, choose Option from the Tools menu and click the "HTTP proxy" button, and in MV Station, choose Network from the Option menu and click the HTTP Proxy button.

- If you have changed the HTTP port number (normally it is 80) at the camera server, select that camera server on MV Manager, click the Properties button on the Toolbar and be sure to change the HTTP port number on the Network tab (see p. 99). Since MV establishes an HTTP connection when it starts up, you need to specify the HTTP port even when Auto-select or WV-TCP is selected as the connection protocol.

Chapter 2

Registering Camera Servers

Next, WebView Livescope MV Manager is used to register and set camera servers.

Registering Camera Servers

To register a camera server, first start up MV Manager. To start up MV Manager, double-click the desktop icon or click the Start button and choose MV Manager from the Programs menu.



MV Manager

Starting up from the desktop icon

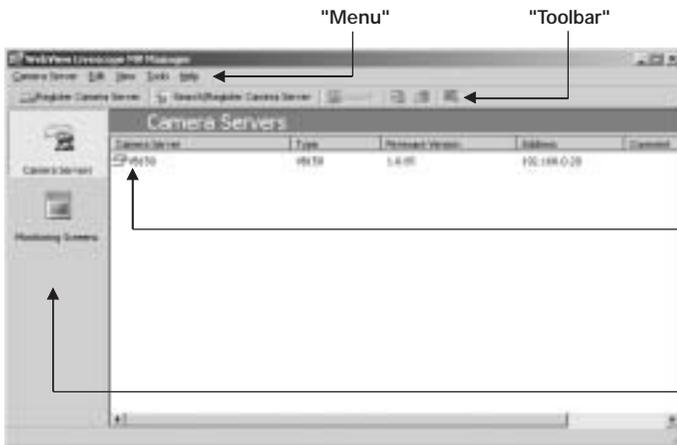


Starting up from the Start menu

Screen Configuration

Camera Server

This screen is used to add a camera server to be monitored or set a camera server.



"Camera Server"

An icon represents the camera server that has been created.

"Navigation bar"

Main window switches between Camera Servers and Monitoring Screens.

Menu



Camera Server

"Register Camera Server"

Starts up the wizard for registering a camera server.

"Search/Register Camera Server"

Auto searches camera servers and starts the wizard for registering a camera server.

"Open Setup Page"

Opens the selected camera server's settings page in the Web browser.

"Properties"

Displays the properties of the selected camera server.

"Export"

Exports MV data.

"Delete"

Deletes the selected camera server.



"Rename"

Changes the name of the camera server.

"Exit"

Exits MV Manager.

Edit

"Select All"

Selects all camera servers.

"Invert Selection"

Changes selection from selected camera servers to ones that are not selected.



View

"Toolbar/Status Bar"

Shows or hides the Toolbar/Status Bar.

"Camera Servers/Monitoring Screens"

Switches between the camera server list and the monitoring screen list.

"Large Icons/Details"

Changes icon display



Tools

"View Test"

Conducts video tests.

"Upgrade Firmware"

Upgrades camera server firmware. (for VB101 only)

"Refresh"

Updates displayed information to the latest information.

"Option"

Changes the selected camera server connection settings and the export data settings.

Toolbar



"Register Camera Server"

Starts up the wizard for registering a camera server.



"Search/Register Camera Server"

Auto searches camera servers and starts the wizard for registering a camera server.



"Export"

Exports MV data.



"Open Setup Page"

Opens the selected camera server's settings page in the Web browser.



"Properties"

Displays the properties of the selected camera server.



"View Test"

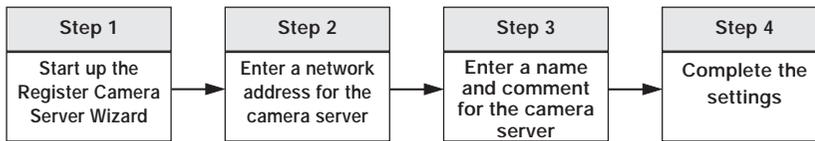
Conducts video tests.

Camera Server Registration Wizards

The first task to perform in MV Manager is to register camera servers that are to be monitored. To add a camera server, simply follow the easy instructions in the wizard-style screens. There are two wizards: the Register Camera Server wizard, which is used to enter the network address for the camera server; and the Search/Register Camera Server wizard, for auto detecting camera servers connected to the network.

Registering a Camera Server

Camera servers are registered in the following 4 steps:

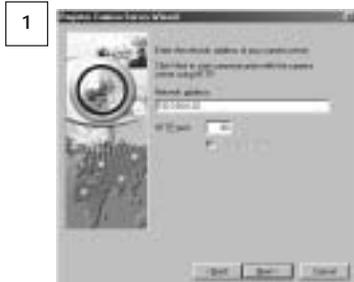


Step 1: Start up the Register Camera Server Wizard

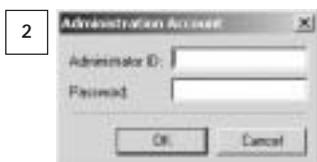


Select Camera Servers on the Navigation bar, and click Register Camera Server on the Toolbar. When the wizard startup screen appears, click Next.

Step 2: Enter a network address for the camera server



In the "Network address" field, enter an IP address or host name for the camera server being added. The HTTP port number set as a property (see p. 99) of the camera server appears as a default in the HTTP port field. Although the HTTP port number is usually 80, if another value is preferred, enter that in the HTTP port field and click Next.



Camera server information is retrieved at the entered network address. Enter the Administrator ID and Password in the window that appears, and click OK.



Tip

When OK is clicked in Step 2, an error message appears in the following cases (see p. 113 for details):

- MV Manager cannot connect to the camera server, because the camera server is not correctly connected to the network, the power switch on the camera server is not turned on, etc.
- The network address was not entered correctly (entry error).
- The camera server setting does not permit MV Manager to access it.
- The VB101 firmware has not been upgraded to Ver. 3.0.

Step 3: Enter a name and comment for the camera server

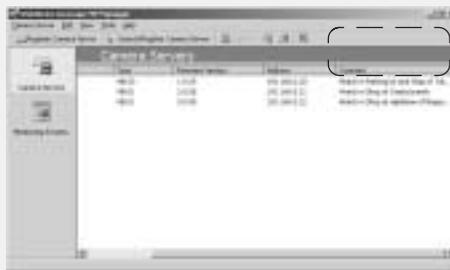


You can give the camera server any name you wish. Enter the name in the "Camera server name" field. This field cannot be left blank. It is also not possible to give the same name to more than one camera server. You can type any comment you wish for the camera server in the Comment field. This comment is reflected in "Comment" found in MV Manager, the monitoring screen and other areas, and can be used for making confirmations, etc. Several lines can be entered. It can also be left blank. When finished with this screen, click Finish.



Tip

- The device name that was entered and set in the camera server's settings page is reflected in the "Camera server name" field as a default. If this setting was not made, the network address that was entered in part 1 of Step 2 is reflected as a default instead. In the case of VB-C10/VB-C10R, the network address is reflected from the beginning.
- Comments such as the installation conditions of the camera server, the position of cameras connected to the camera server, or the objects being monitored are convenient when several camera servers and cameras are being operated.



Step 4: Complete the settings



The camera server is registered.

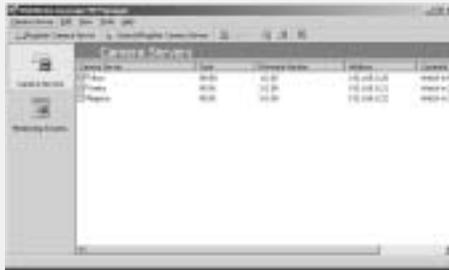


Tip

- Please conduct a view test (see p. 64) to check to be sure that the camera server has been correctly set.

Adding more than one camera server

Up to 100 camera servers can be registered. To add more than one camera server, repeat steps 1 through 4.

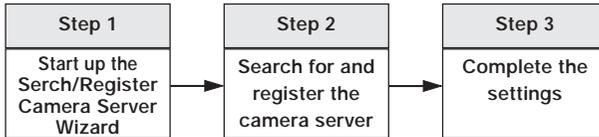


Deleting a camera server

To delete the registered camera server, select the camera server by clicking on it, then choose Delete from the Camera Server menu. When the camera server that was being used in the created monitoring screen is deleted, it is also deleted from the monitoring screen at the same time, and there is a possibility that displays will not appear correctly in the monitoring screen.

Searching/Registering Camera Servers

Camera servers are searched and registered in the following 3 steps:



Step 1: Start up the Search/Register Camera Server Wizard



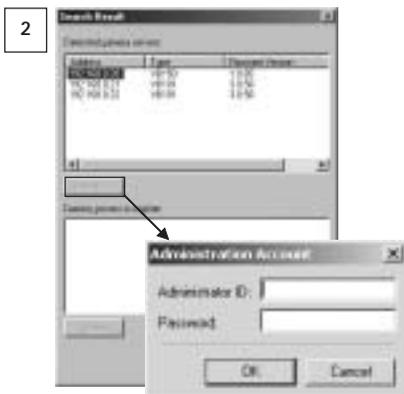
Click Search/Register Camera Server on the Toolbar. When the wizard startup screen appears, click Next.

Step 2: Search for and register the camera server



Camera servers connected to the network are automatically searched.

* If HTTP port other than 80 is used, the Search/ Register Camera Server feature will only be available with the VB150. For other camera servers, please use the Register Camera Server registration procedure described on page 22.



From the list of detected camera servers, select the one you want to register by clicking on it, then click the Register button. Enter the Administrator ID and Password in the window that appears, then click OK.



The camera server to be registered appears in the space below. To register more than one camera server, repeat the process of selecting a camera server, clicking Register, and entering the Administrator ID and Password for each camera server you want to register. Camera servers with the same Administrator ID and Password can be selected in multiples and registered at one time. When finished, click OK.



Note

Camera server search and registration is not possible in the following cases in Step 2 or later:

- The camera server is not on the same LAN. (In this case, register the camera server from "Register Camera Server". see p. 112.)
- MV Manager cannot connect to the camera server, because the camera server is not correctly connected to the network, the power switch on the camera server is not turned on, etc.
- The camera server setting does not permit MV Manager to access it.
- The VB101 firmware has not been upgraded to Ver. 3.0.

Step 3: Complete the settings



A dialog box for confirming camera servers to be registered appears. If you are satisfied with the list, click Finish to complete registration. If you click "Detected Camera Servers", the screen returns to Step 2.



The camera servers are automatically given names. If you want to change a name, click the camera server icon to select it, then right click on the selection. When the pop-up menu appears, choose "Rename". Alternatively, you can double-click on the camera server icon to display the camera server's properties. Click the General tab and change the name there.



Tip

- Please conduct a view test (see p. 64) to check to be sure that the camera server has been correctly set.
- Up to 100 camera servers can be registered.

Chapter 3

Creating Monitoring Screens

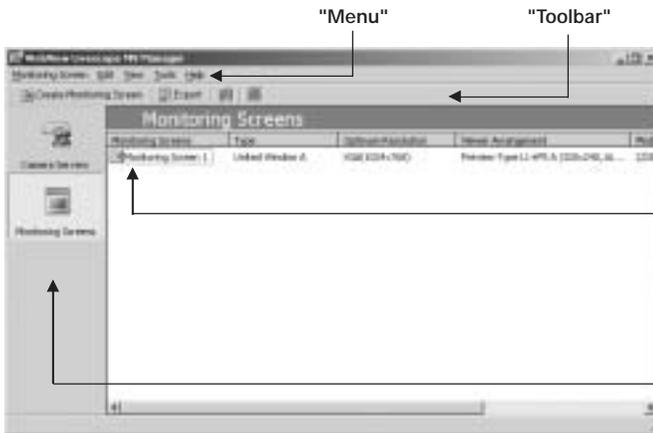
Using WebView Livescope MV Manager to create monitoring screens appropriate to your application.

Creating Monitoring Screens

Screen Configuration

Monitoring Screen

This screen is used to create and edit monitoring screens.



"Monitoring Screen"

An icon represents the monitoring screen that has been created.

"Navigation Bar"

Main window can be switched between Camera Servers and Monitoring Screens.

Menu



Monitoring Screen

"Create Monitoring Screen"

Starts up the wizard to create a monitoring screen.

"Properties"

Displays the properties of the selected monitoring screen.

"Export"

Exports MV Data.

"Delete"

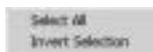
Deletes the selected monitoring screen.

"Rename"

Changes the name of the monitoring screen.

"Exit"

Exits MV Manager.



Edit

"Select All"

Selects all monitoring screens.

"Invert Selection"

Changes selection from a selected monitoring screen to ones that are not selected.



View

"Toolbar/Status Bar"

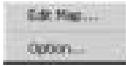
Shows or hides Toolbar/Status Bar.

"Camera Servers/Monitoring Screens"

Switches between the camera server list and the monitoring screen list.

"Large Icons/Details"

Changes icons display.



Tools

"Edit Map"

Lets you edit the map.

"Option"

Changes camera server connection settings and proxy settings.

Toolbar



"Create Monitoring Screen"

Starts up the wizard to create a monitoring screen.



"Export"

Exports MV Data.



"Properties"

Displays the properties of the selected monitoring screen.

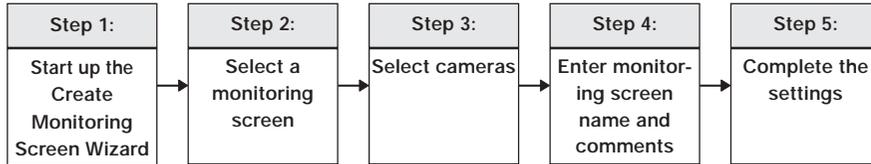


"Edit Map"

Lets you edit the map.

Create Monitoring Screen Wizard

When you have finished registering the camera servers, the next task is to create monitoring screens. Various monitoring screens can also be created easily by operating in accordance with directions from a wizard screen. The five steps required are as follows:



Step 1: Start up the Create Monitoring Screen Wizard



Select Monitoring Screens on the Navigation bar and click Create Monitoring Screen on the Toolbar. When the wizard startup screen appears, click Next.

Step 2: Select a monitoring screen

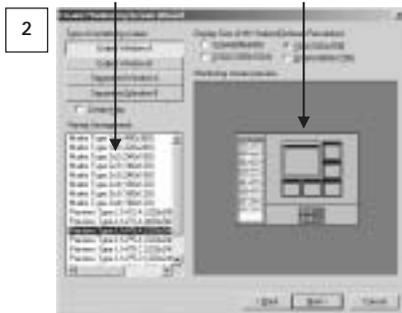
Select "Type of monitoring screen" and "Display Size of MV Station"



Select a monitoring screen.

- (1) Select one of the four types of monitoring screen with the buttons at the top left (see p. 33).
- (2) Select one of the four types of display sizes with the radio buttons at the top right.
- (3) Different combinations of monitoring screen type and display size will cause the details shown in the Viewer Arrangement box at the bottom left to be changed. (For viewer arrangements, refer to "Viewer Arrangements" on p. 34)

Display "Monitoring screen preview" by selecting "Viewer Arrangement"



When you click a viewer arrangement, a sample screen will appear in the "Monitoring screen preview" window at the bottom right.

Here, we shall try creating a monitoring screen by selecting "United Window A", "XGA(1024 × 768)", "Preview Type L1 + P5A(320 × 240,160 × 120)". Having made the selection, click Next to continue.



Tip

If Create Map is selected in Step 2, Map Editor will start after the settings are completed in Step 5 and you can make a map. Even if it is not selected, you can still make a map by starting Map Editor after this wizard is finished (see p. 40).

Step 3: Select cameras



Select the camera server and camera you wish to display in the monitoring screen.

Make your selection by checking the name of the camera server and the name of the camera on the list of camera servers and cameras available for use (the camera servers registered in Chapter 2 and connected cameras) that is displayed. (All cameras are selected by default.) When you select a camera server, all cameras connected to that camera server will be selected.

For Camera Control Right, select "MV level" (Refer to p. 105 for details).

Having made the selection, click Next to continue.

Step 4: Enter monitoring screen name and comments

1



You can choose any name you wish for the monitoring screen. Enter the name in the "Monitoring screen name" field. It must not be left blank. You may not use the same name for more than one monitoring screen.

You can use the Comment field to write any comment you wish about the monitoring screen. Comment will be reflected in the monitoring screen's "Comment" section and can be used for confirmation. Several lines are available, or the comment may be omitted.

2



Clicking the Settings button of "Main video pattern" will enable you to make settings for the cameras that are to be allocated on the viewer window when the MV Station was started up. Select by clicking the cameras you wish to allocate, then click the Assign button.

3



The allocated cameras will be arranged in the order in which they are allocated and given a number in the viewer window. If you wish to alter the sequence, select an allocated camera by clicking its name and shift the sequence by clicking the Up or Down button.

When the allocation is completed, click OK.

Step 5: Complete the settings



When you click Finish, the monitoring screen will be created.



Note

- Even when the monitoring screen has been created and the settings are completed, the settings are only stored by MV Manager and cannot be viewed by MV Station. To view them on MV Station they must be exported (see p. 46).
- Up to 100 monitoring screens can be registered.

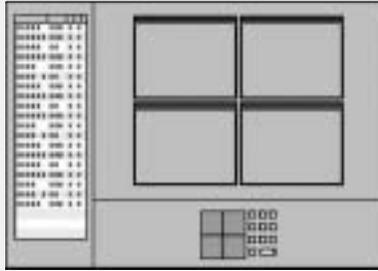


Tip

Monitoring Screen List

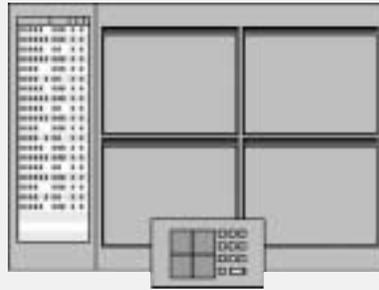
By means of viewer arrangements that can be selected in each of four types of screens, 437 types of monitoring screens are available.

● Type of monitoring screen



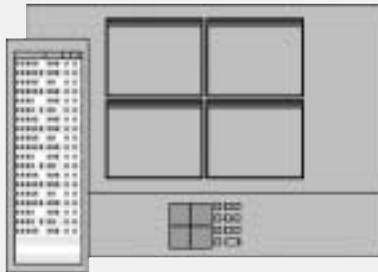
United Window A

A pattern in which the camera source window, viewer and camera control panel are all united.



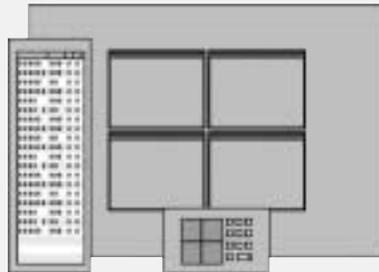
United Window B

A pattern in which the camera source window and viewer are united and the camera control panel is separated.



Separated Window A

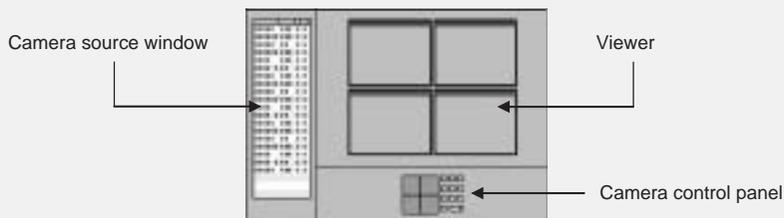
A pattern in which the viewer and camera control panel are united and the camera source window is separated.



Separated Window B

A pattern in which the camera source window, viewer and camera control panel are all separated.

■ Screen configuration



● Viewer Arrangements

Different types of viewer arrangements can be selected according to the types and sizes of screens.

Name of Arrangement	Sketch of Arrangement	Display size	SVGA	XGA	SXGA	UXGA
		Type of monitoring screen	800 × 600	1024 × 768	1280 × 1024	1600 × 1200
Matrix Type 1×1		United Window A	c	d	d,e	e
		United Window B	d	e	e	e
		Separated Window A		d	d,e	e
		Separated Window B	d,e	d,e	e	
Matrix Type 1×2		United Window A	b	c	d	e
		United Window B				e
		Separated Window A	b,c	c,d	d	e
		Separated Window B		d		
Matrix Type 1×3		United Window A				
		United Window B				
		Separated Window A	b	c		
		Separated Window B				
Matrix Type 2×1		United Window A				d
		United Window B	b	c	d	e
		Separated Window A				d
		Separated Window B	b	c	d	d,e
Matrix Type 2×2		United Window A		b	c	d
		United Window B	b	c	d	e
		Separated Window A		b	c	d
		Separated Window B	b	c	d	d,e

● Viewer Sizes

- a: 160 × 120
- b: 240 × 180
- c: 320 × 240
- d: 480 × 360
- e: 640 × 480

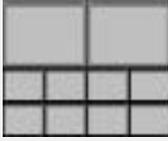
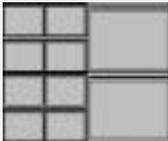
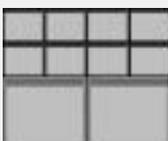
Name of Arrangement	Sketch of Arrangement	Display size	SVGA	XGA	SXGA	UXGA
		Type of monitoring screen	800 × 600	1024 × 768	1280 × 1024	1600 × 1200
Matrix Type 2×3		United Window A	a	a,b	c	
		United Window B				
		Separated Window A	a	b	c	d
		Separated Window B	b	c		d
Matrix Type 2×4		United Window A		a		
		United Window B				
		Separated Window A				
		Separated Window B				
Matrix Type 3×1		United Window A				
		United Window B	a	b	c	
		Separated Window A				
		Separated Window B	a	b	c	
Matrix Type 3×2		United Window A			b	c
		United Window B	a	b	c	
		Separated Window A			b	c
		Separated Window B	a	b	c	
Matrix Type 3×3		United Window A		a	b	c
		United Window B	a	b	c	
		Separated Window A		a	b	c
		Separated Window B	a	b	c	
Matrix Type 3×4		United Window A		a	b	c
		United Window B				
		Separated Window A		a	b	c
		Separated Window B	a	b		
Matrix Type 4×1		United Window A				
		United Window B		a	a,b	a,b
		Separated Window A				
		Separated Window B		a	b	b,c

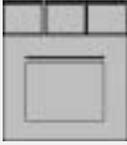
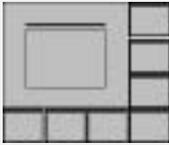
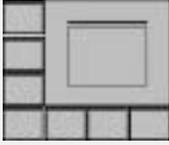
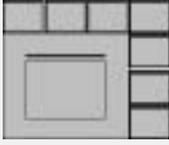
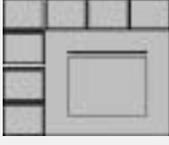
Name of Arrangement	Sketch of Arrangement	Display size	SVGA	XGA	SXGA	UXGA
		Type of monitoring screen	800 × 600	1024 × 768	1280 × 1024	1600 × 1200
Matrix Type 4×2		United Window A				b
		United Window B		a	a,b	a,b
		Separated Window A				b
		Separated Window B		a	b	b,c
Matrix Type 4×3		United Window A			a	a,b
		United Window B		a	a,b	a,b
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Matrix Type 4×4		United Window A			a	a,b
		United Window B		a	a,b	a,b
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type L1+P2A		United Window A	a	a,b	c	
		United Window B				
		Separated Window A	a	a,b	c	
		Separated Window B	b	c	c	
Preview Type L1+P2B		United Window A			b	c
		United Window B	a	b	c	c
		Separated Window A			b	c
		Separated Window B	a	b	c	
Preview Type L1+P4A		United Window A				b
		United Window B		a	a,b	b,c
		Separated Window A				b
		Separated Window B		a	b	b,c

● Viewer Sizes

- a: 160 × 120
- b: 240 × 180
- c: 320 × 240
- d: 480 × 360
- e: 640 × 480

Name of Arrangement	Sketch of Arrangement	Display size	SVGA	XGA	SXGA	UXGA
		Type of monitoring screen	800 × 600	1024 × 768	1280 × 1024	1600 × 1200
Preview Type L1+P4B		United Window A				b
		United Window B		a	a,b	b,c
		Separated Window A				b
		Separated Window B		a	b	b
Preview Type L1+P5A		United Window A		a	b	c
		United Window B	a	b	c	
		Separated Window A		a	b	c
		Separated Window B	a	b	c	
Preview Type L1+P5B		United Window A		a	b	c
		United Window B	a	b	c	
		Separated Window A		a	b	c
		Separated Window B	a	b	c	
Preview Type L1+P5C		United Window A		a	b	c
		United Window B	a	b	c	
		Separated Window A		a	b	c
		Separated Window B	a	b	c	d
Preview Type L1+P5D		United Window A		a	b	c
		United Window B	a	b	c	
		Separated Window A		a	b	c
		Separated Window B	a	b	c	d
Preview Type L1+P8A		United Window A		a	b	c
		United Window B				
		Separated Window A		a	b	c
		Separated Window B	a	a		
Preview Type L1+P8B		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c

Name of Arrangement	Sketch of Arrangement	Display size	SVGA	XGA	SXGA	UXGA
		Type of monitoring screen	800 × 600	1024 × 768	1280 × 1024	1600 × 1200
Preview Type L2+P4A		United Window A		a	b	c
		United Window B				
		Separated Window A		a	b	c
		Separated Window B	a	a		
Preview Type L2+P4B		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type L2+P8A		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type L2+P8B		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type L2+P8C		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type L2+P8D		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c

Name of Arrangement	Sketch of Arrangement	Display size	SVGA	XGA	SXGA	UXGA
		Type of monitoring screen	800 × 600	1024 × 768	1280 × 1024	1600 × 1200
Preview Type SL1+P3A		United Window A		a	b	c
		United Window B				
		Separated Window A		a	b	c
		Separated Window B	a	a		
Preview Type SL1+P3B		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type SL1+P7A		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type SL1+P7B		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type SL1+P7C		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c
Preview Type SL1+P7D		United Window A			a	a,b
		United Window B		a	a,b	b,c
		Separated Window A			a	a,b
		Separated Window B		a	b	b,c

- Viewer Sizes
- a: 160 × 120
- b: 240 × 180
- c: 320 × 240
- d: 480 × 360
- e: 640 × 480

Editing Maps

The map that is displayed on the monitoring screen enables the allocation of camera server, camera, external device and motion detection (for VB150 only) icons and the background picture to be edited. These can be edited with Map Editor. Map editing is not something that needs to be done when the monitoring screen is created; it can be done when necessary.

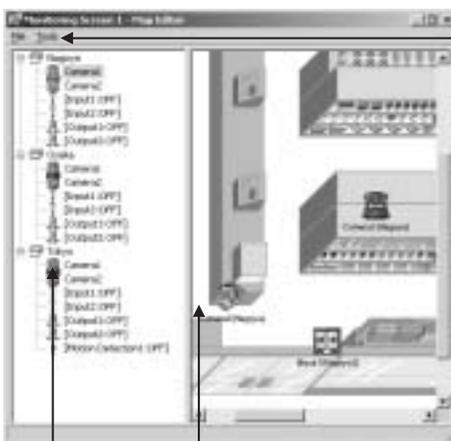
Starting up Map Editor



Select the Monitoring Screens on the Navigation bar and click the monitoring screen icon to select it. Then, click the Edit Map on the Toolbar.

Also, if you select Create Map in Step 2 of the Create Monitoring Screen Wizard and continue with the wizard, the Map Editor will start up automatically when the creation is completed.

Configuration of the Map Editor Screen



"Menu"

- | | |
|----------------|-------------------------|
| File | Tools |
| Save | Load Background Bitmap |
| Save and Close | Clear Background Bitmap |
| Close | Change Icon |
| | Delete Icon |
- Save**
Saves changes to file
 - Save and Close**
Saves changes to file and closes Map Editor
 - Close**
Close Map Editor without saving changes
 - Load Background Bitmap**
Reads map background bitmap file
 - Clear Background Bitmap**
Clears background bitmap (so that nothing is written)
 - Change Icon**
Changes the image of the selected icon
 - Delete Icon**
Deletes the selected icon

"Background Bitmap"

It is possible to make changes to the supplied sample bitmap files and user-created images.

"Icons"

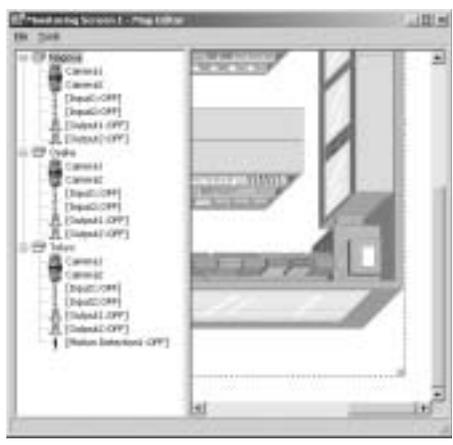
Enables camera server, camera, external device input/output and motion detection (for VB150 only) icons to be dragged and dropped. Also lets you switch and control the camera server and camera. Bitmap icons can be selected from the list on page 43.

Loading and Changing Background Bitmaps



The Open dialog box will appear when you select Load Background Bitmap from the Tools menu.

The folder containing previously prepared sample bitmap files is in the folder with MV Manager installed. (Default is C:\Program Files\Canon\WebView\MV\2.0\Bmp).

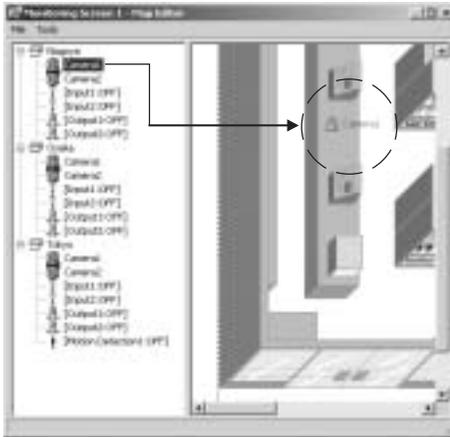


Select by clicking the bitmap file you wish to use, click Open and the bitmap will be loaded into background. The bitmap will be displayed inside a dotted frame. You can alter the size of the frame by dragging the square on the right edge, right bottom edge and bottom edge.

 **Note** Background bitmaps can be loaded from user-created bitmap files. The following file types can be used as background bitmaps.

- Bitmap files (extension .bmp)
- JPEG files (extension .jpeg/jpg)

Allocating Icons



You can freely allocate the icons shown in the tree in the left window by dragging and dropping them onto the map.

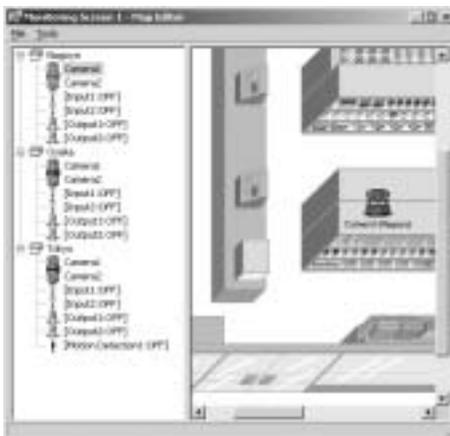
There are five types of icons (see p.43), "Camera Server", "Camera", "Input", "Output" and "Motion Detection" and camera server names, camera names and input/output/motion detection descriptions applied by the MV Manager camera server properties are displayed. The camera server icon and the camera icons of the camera connected to its camera server cannot be allocated on the map at the same time.

* Motion detection is only available with the VB150.



When an icon is to be dropped, Select Icon dialog box will appear to enable the type of icon to be selected. Icons will be allocated when you have selected them and clicked OK.

Once an icon has been allocated, it can be freely repositioned by dragging and dropping. Also, if the type of icon is to be altered, select Change Icon from the Tools menu. When an icon is to be deleted, select Delete Icon from the Tools menu.





Tip

List of Bitmap Icons

There are 90 bitmap icons.

Camera Icons										
VC-C4 Camera				VC-C4R Camera						
VC-C3 Camera				VC-C1 Camera						
NU-700 Camera										
Other cameras										
Other than cameras										
Camera Server Icons										
VB150/VB101 Camera Server				VB-C10 Camera Server						
VB-C10R Camera Server										
External Device Icons										
Input Icons										
Motion Detection Icons (VB150)										
Output Icons										



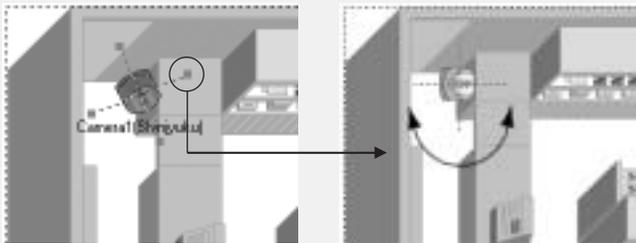
Tip

Allocating Camera Icons with Scopes



A camera icon with a scope attached is one that has "Icon rotates" indicated in the "Description" column under "Select Icon". The icon and scope will move in accordance with the horizontal orientation and zoom of the actual camera.

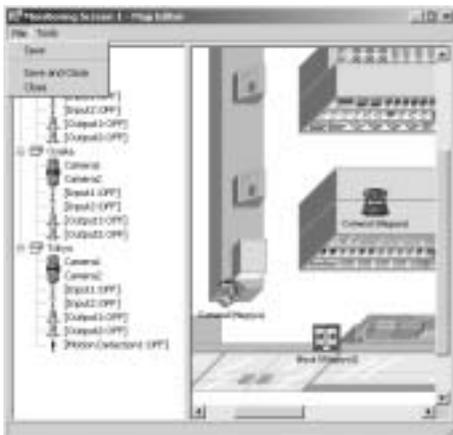
When these icons are allocated on a map, a guide is displayed for determining which of four directions is to be the initial orientation. The home direction of the camera can be specified by dragging this guide.



Rotation is in the direction of the drag operation

Saving the Edited Screen

On the File menu, choose Save to save changes. If you choose Save and Close, the changes are saved and Map Editor quits. Choose Close if you do not want to save the changes.



Since this save operation occurs in MV Manager, to reflect the changes on the monitoring screen for viewing in MV Station, you need to "Export" the changes.

Chapter 4

Exporting MV Data

Exports data of registered camera servers and created monitoring screens.

Exporting

Monitoring screens cannot be viewed in MV Station simply by creating them and saving the settings in MV Manager. To view monitoring screens in MV Station, you need to specify an MV Data folder that MV Station can access and to export the created monitoring screens.

Exporting



To export, click Export on the Toolbar. When the window for making export settings appears, first, among all the created monitoring screens, place a check at "Monitoring screens to export" to select the monitoring screens to be exported.

When MV Station starts up, the first monitoring screen that opens is called the Start Screen. To set the Start Screen, from among the monitoring screens that have been checked, select the monitoring screen you want to be the Start Screen by clicking on that monitoring screen's name, then click on the "Selected monitoring screen" button. To change a setting after it has been made, click the Clear button and redo the setting.



Next, specify the folder to which MV Data is to be exported. Click the Browse button on the "Folder to export", select the MV Data folder, and click OK. Please note that the MV Data folder to be specified cannot be created in this dialog box; the folder must be created beforehand.



Note

- Only a folder can be specified for the MV Data folder; a drive cannot be specified.
- If MV Manager and MV Station are installed in separate PCs, a folder that can be accessed by MV Station must be specified as the MV Data folder.
- If the MV Data folder being specified is in a different PC from the one where MV Manager is installed, a folder that can be accessed by both the PC where MV Manager is installed and the PC where MV Station is installed must be specified as the MV Data folder.

3



Click Export to complete the export process. MV Station will now be able to access the MV Data folder so that you can view the created monitoring screens.

Operation Restriction

Operation restriction is a function that places restrictions on the operation of MV Station (such as switching the start screen to another monitoring screen, camera control, camera Drag & Drop). Operation restrictions are set by setting a password for MV Data to be exported. When MV Station reads MV Data, the operation restrictions are automatically enabled if a password has been set for that MV Data. To cancel operation restrictions, in MV Station re-enter the password that was set in MV Manager.

Only the items below are enabled in the MV Station menus:

- **File menu:** "Specify MV Data Folder", "Reload MV Data" "Exit"
- **View menu:** All items
- **Tools menu:** "Option ([Operation restriction] tab only)"
- **Help menu**

Setting Operation Restrictions



First make sure a main video pattern has been set for the monitoring screen being specified as the "Start screen". (Check this by clicking the Settings button under the Video Pattern tab on p. 106.)

In the window where export settings are made, select the monitoring screen and specify the start screen by clicking "Selected monitoring screen".

When "Enable operation restriction" is selected, the "Password setting" dialog box appears. Enter a password and click OK.

Canceling Operation Restrictions



From the MV Station Tools menu, choose Option, then in the window that appears, click on the "Operation restriction" tab. When operation restriction is enabled, click the Disable button, then enter the password to cancel the restriction. If the operation restriction is disabled, they can be enabled by clicking Enable.

Chapter 5

Monitoring

Displaying and monitoring images with the WebView Livescope MV Station.

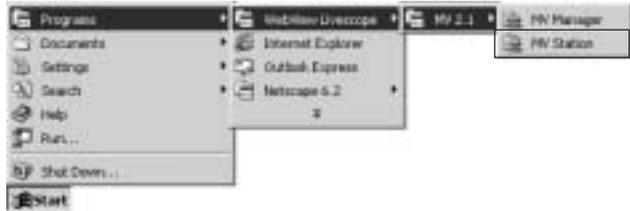
Starting up MV Station

MV Station will display registered monitoring screens. To start up MV Station, double-click the desktop icon or click the Start button and choose MV Station from the Programs menu.



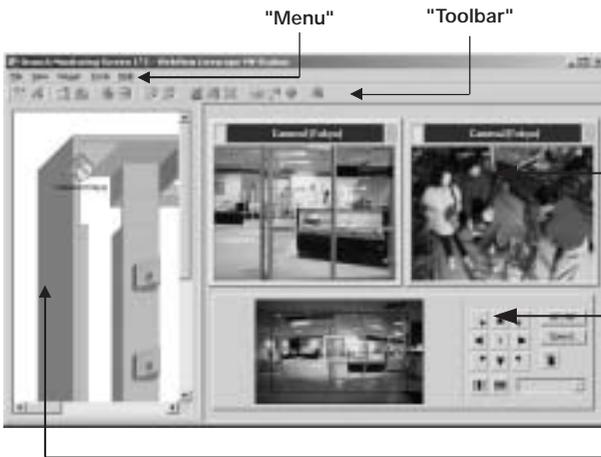
MV Station

Starting up from the desktop icon



Starting up from the Start menu

Screen Configuration



"Viewer"

A camera image is displayed.

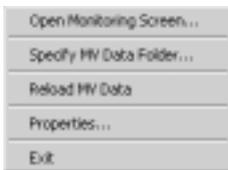
"Camera Control Panel"

Cameras can be controlled using panorama pictures and buttons.

"Camera Source Window"

Shows camera servers, cameras, external device input/output and motion detection (for VB150 only). Dragging and dropping enables cameras to be allocated to the viewer window and cameras to be switched.

Menu



File

"Open Monitoring Screen"

Opens monitoring screens that have been exported to a MV Data folder.

"Specify MV Data Folder"

Specifies MV Data folder.

"Reload MV Data"

Reloads the MV Data to reflect the latest data.

"Properties"

Displays properties of the selected monitoring screen.

"Exit"

Exits MV Station.



View

"Toolbar"

Shows or hides the Toolbar.

"Hide Camera Source Window"

Hides the camera source window if it is displayed when the type of monitoring screen is Separated Window A or B.

"Camera List"

Switches the camera source window to show camera list.

"Camera Tree"

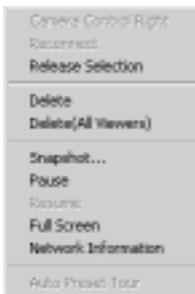
Switches the camera source window to show camera tree.

"Camera Map"

Switches the camera source window to show camera map.

"Camera Control Panel"

Switches the camera control panel display type (see p. 57).



Viewer

"Camera Control Right"

Acquires right of control over the selected viewer.

"Reconnect"

Reconnects the selected viewer.

"Release Selection"

Cancels the viewer selection.

"Delete"

Deletes the image on the selected viewer.

"Delete (All Viewers)"

Deletes images displayed on all active viewers.

"Snapshot"

Takes a snapshot of the selected viewer.

"Pause"

Pauses the image on the selected viewer and displays a still picture.

"Resume"

Restarts a paused image.

"Full Screen"

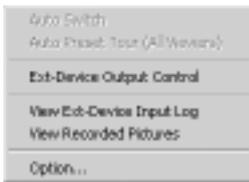
Displays the image on the selected viewer on full screen.

"Network Information"

Displays network information on the selected viewer.

"Auto Preset Tour"

Toggles Auto Preset Tour on/off on cameras of the selected viewer.



Tools

- "Auto Switch"
Toggles Auto Switch on/off.
- "Auto Preset Tour (All Viewers)"
Toggles Auto Preset Tour on/off on cameras of all viewers that are displaying.
- "Ext-Device Output Control"
Controls external device output.
- "View Ext-Device Input Log"
Shows external device input history log.
- "View Recorded Pictures"
Starts up the VBIImageBrowser.
- "Option"
Displays MV Station information and makes network settings.

Toolbar

-  "Auto Switch"
Toggles Auto Switch on/off.
-  "Auto Preset Tour (All Viewers)"
Toggles Auto Preset Tour on/off on cameras of all viewers that are displaying.
-  "View Ext-Device Input Log"
Shows external device input history log.
-  "View Recorded Pictures"
Starts up VBIImageBrowser.
-  "Camera Control Right"
Acquires right of control over the selected viewer.
-  "Reconnect"
Reconnects the selected viewer.
-  "Delete"
Deletes the image on the selected viewer.
-  "Delete (All Viewers)"
Deletes images displayed on all active viewers.
-  "Snapshot"
Takes a snapshot of the selected viewer.
-  "Pause/Resume"
Pauses and restarts the image on the selected viewer.
-  "Full Screen"
Displays the image on the selected viewer on full screen.
-  "Network Information"
Displays network information on the selected viewer.
-  "Ext-Device Output Control"
Controls external device output.
-  "Camera Control Panel"
Switches the camera control panel display type.
-  "Auto Preset Tour"
Toggles Auto Preset Tour on/off on cameras of the selected viewer.

Type of Screen

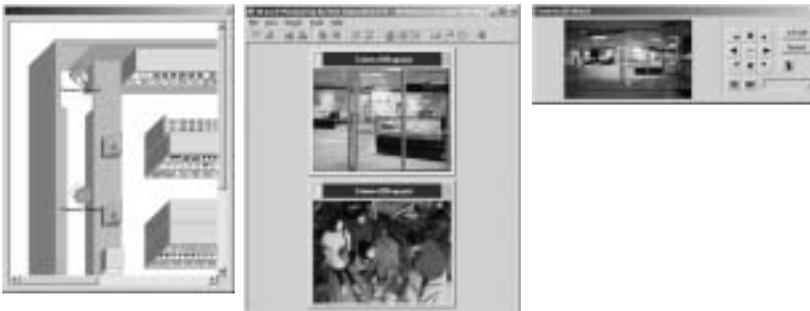
Monitoring screens are available with the camera source window, viewer and camera control panel united or separated. The method of operation is the same in each case.



Example of united type



Example of a type with camera source window separated



Example of all separated type

Operating the Monitoring Screen

Opening the Monitoring Screen



For monitoring with MV Station, open the monitoring screen by accessing a MV Data folder that has been exported by MV Manager.

When MV Station is started up, first a dialog box will open for specifying a MV Data folder. Once a MV Data folder is accessed and the monitoring screen has been opened, for access to another MV Data folder, select Specify MV Data Folder from the File menu.

Enter the MV Data folder path directly or click the Browse button, specify a folder and click OK to open the monitoring screen.

If the monitoring screen has been specified beforehand as the Start Screen, the specified screen will be displayed automatically. Otherwise, select the screen you wish to see from the Select Monitoring Screen dialog box.

Click to select and click OK. With the screen selected, click the Properties button to enable the monitoring screen properties to be referenced.

While a certain monitoring screen is being displayed, to switch to another monitoring screen that is in the same MV Data, open it in the same way from Open Monitoring Screen.

Allocating a Camera



Cameras can be freely allocated to viewers. From the cameras shown on the camera source window, drag the icon of the camera you wish to allocate and drop it on the viewer where you wish it to be shown. If you drop it on a viewer that is already displaying an image, the image will be switched to that of the dropped camera.

If the camera source window has a camera server icon on the camera map, you can click the icon to display the names of the cameras connected to that camera server and then drag and drop the camera name.

Deleting an Image



To delete the image of a camera that has been allocated to a viewer, select by clicking the viewer to be deleted, click Delete on the Toolbar or select Delete from the Viewer menu.

To delete the camera images of all viewers, click "Delete (All Viewers)" on the Toolbar or select "Delete (All Viewers)" from the Viewer menu.



Tip

To change the viewer allocation, you can drag and drop from viewer to viewer. The cameras of the dragged viewer will be allocated to the dropped viewer and the cameras that had been allocated to the dropped viewer will be allocated to the dragged viewer.

Also, when dragging and dropping from a viewer to the camera source window, the cameras that had been allocated to the viewer can be deleted.

Note that you must first release the viewer selection before you change the viewer allocation.

Reloading MV Data Again



If the monitoring screen was changed in MV Manager while the monitoring screen was open, the change can be reflected on the screen by reloading the monitoring screen data.

Select Reload MV Data from the File menu. If you wish to update the currently selected monitoring screen with the latest information, open the monitoring screen again from Open Monitoring Screen.

Switching Camera Source Windows



Camera source window display details can be switched to show camera list, camera tree and camera map.

Select Camera List, Camera Tree and Camera Map from the View menu.

If the monitoring screen is a Separated Window A or B, and the camera source window is being displayed, you can hide it by selecting Hide Camera Source Window from the View menu. If the camera source window is hidden and you wish to show it, you can show it by selecting any one of Camera List, Camera Tree and Camera Map.



"Camera List"



"Camera Tree"



"Camera Map"

Displaying and Switching the Camera Control Panel



If the monitoring screen is a Separated Window A or B, the camera control panel display content can be switched between Full Size (Horizontal), Full Size (Vertical), Panorama Only and Control Buttons Only. Select any one of Full Size (Horizontal), Full Size (Vertical), Panorama Only or Control Buttons Only from Camera Control Panel on the View menu.

Also, when the camera control panel is being displayed, you can hide it by selecting Hide from Camera Control Panel on the View menu. If the camera control panel is hidden and you wish to show it, you can show it by selecting any one of Full Size (Horizontal), Full Size (Vertical), Panorama Only or Control Buttons Only.



"Full Size (Horizontal)"



"Full Size (Vertical)"



"Panorama Only"



"Control Buttons Only"

Operating a Camera

Select a Camera to be Operated



To operate a camera, the camera to be operated must have first been selected. To select a camera, click the icon of the camera you wish to operate in the camera source window or click the viewer that is showing the image from the camera you wish to operate. Camera that can be operated include camera whose icon in the camera source window has a yellow background, and the viewer showing image from the camera that can be operated has a yellow frame. However, if an icon showing camera-with-scope (see p.44) is allocated in the camera source window, the scope turns yellow.



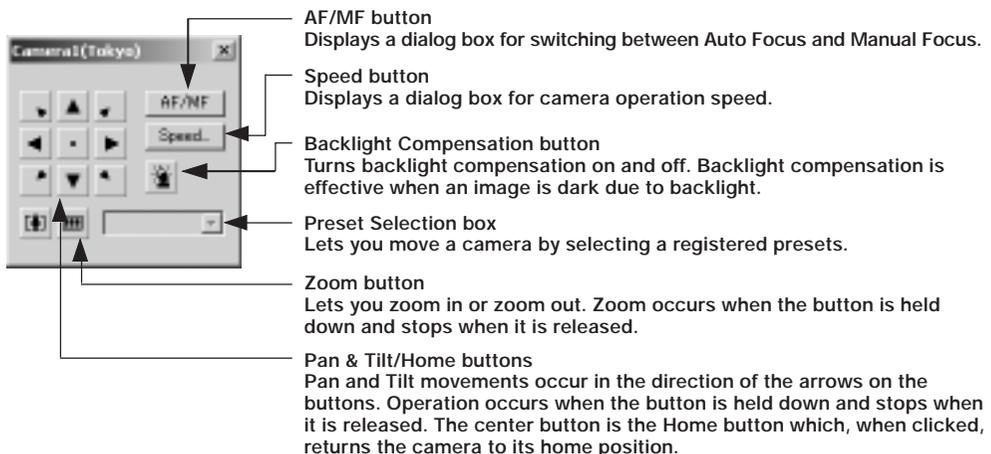
Note



Viewers have a Video Indicator. The indicator flashes green when a video is being displayed and illuminates light blue when a still picture is being displayed.

Operating a Camera with Control Buttons

The camera can be controlled freely with pan, tilt and zoom button operations. Backlight compensation works when the Backlight Compensation button is on. Click the button again to turn off this feature.





The Focus dialog box appears when the AF/MF button is clicked.

"Auto" is auto focus, "Auto (for domes)" is for the camera used in combination with a camera dome so that auto focus does not focus on the camera dome wall surface, and "Fixed at infinity" enables focusing on infinity. Under Manual focus, the focus can be adjusted by holding down the Far or Near buttons.



The Speed dialog box appears when the Speed button is clicked.

For the camera's "Pan/Tilt Speed", select pan and tilt speeds as Fast, Normal or Slow.

For the camera's "Zoom Speed", select camera zoom speed as Fast or Slow.

If the NU-700 with WV-TCP connection (see p. 99) is being used, you can set the manual focus speed to Fast or Slow for the camera's "Focus Speed".

"Pan/Tilt Speed" and "Zoom Speed" settings are only effective for pan, tilt and zoom operations with control buttons and for the arrow button operations on the viewer (see p. 60 "Tip")



Note

If you are using the NU-700 (outdoor camera), use the Admin Viewer supplied with the VB150 to specify the wiper, exposure and ND filter settings.

Operating the Camera with Panorama

The pan, tilt, and zoom of a camera can be freely controlled from the Panorama window. The frame displayed on the panorama indicates the portion that displays the image. You can change the pan and tilt by dragging this frame, and you can zoom in or out by dragging any side of the frame to make it smaller or larger. Also, by clicking on the Panorama, the camera can be oriented to make that position the center of the image, and you can create a new frame by dragging on the Panorama outside the existing frame.



Drag the side of the frame for zoom.

Drag the frame for pan and tilt.

Click on Panorama to make that position the center, drag to create a frame.



Note

A panorama picture must first be created using the Panorama Creation Tool supplied with the camera server before you use this feature.

Operating the Camera with the Viewer

Camera pan and tilt can also be freely controlled with the viewer. By clicking the viewer image, the camera can be oriented to make that position the center of the image.

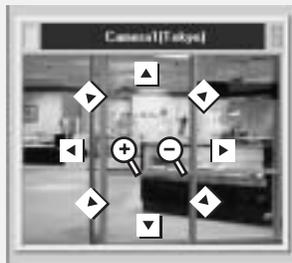


Click on the viewer to make that position the center



Tip

There are another settings to enable pan, tilt and zoom operations with the viewer. With the viewer selected, choose Properties from the File menu and check the "Control a camera with arrow buttons" radio button under Camera Control. Set the mouse cursor over the viewer. There are eight arrows, such as the up arrow at the top of the screen and the down arrow at the bottom of the screen, for making changes with the mouse cursor. There are also two central buttons, plus on the left and minus on the right, for making changes with the mouse cursor. In each case click and hold to enable pan, tilt and zoom operations.



Note

If there is an icon showing camera-with-scope in the camera source window, the scope will change to match the variations in camera pan and zoom as the camera is operated.



Orientation of the icon changes to match pan changes

Scope length vary in accordance with zoom changes

Full Screen Display



With the viewer selected, click Full Screen on the Toolbar to enlarge the viewer display to fill the screen.

Press "ESC" to return to the original display.

Video Pause/Resume



With the viewer selected, click Pause/Resume on the Toolbar to pause a video and enable a still picture to be displayed.

Click Pause/Resume again to return from the still picture to the video display.

Taking a Snapshot



With the viewer selected, click Snapshot on the Toolbar to enable the video being displayed at the time of the click to be saved to a file as a still picture.

Snapshots can be saved in a JPEG format file. When the snapshot is taken a dialog box will appear to enable the location of the file to be specified. Enter the file name then press Save.



To Reconnect



If the camera server connection has been cut, you can try to reconnect by clicking the Reconnect button on the Toolbar.

Viewing Network Information



You can view various items of network information. To display them, click Network Information on the Toolbar.



- **Frame rate**
Shows the frame rate for the viewer.
- **Image size**
Shows the size of the image being displayed.
- **Video capture size**
Shows the size of the video being captured by the camera server.
- **Compression type**
Shows the image compression type being used.
- **Video [WV-TCP]**
Shows the IP address and Port No. of the camera server if WV-TCP is being used for the video transmission protocol.
- **Camera control [WV-TCP]**
Shows the IP address and Port No. of the camera server if WV-TCP is being used for the camera control protocol.
- **Video/Camera control [WV-HTTP]**
Shows the IP address and Port No. of the camera server if WV-HTTP is being used for the protocol.
- **HTTP proxy**
Shows whether a HTTP proxy is being used (ON) or not used (OFF).
- **Local time**
Shows the current time at the camera server.

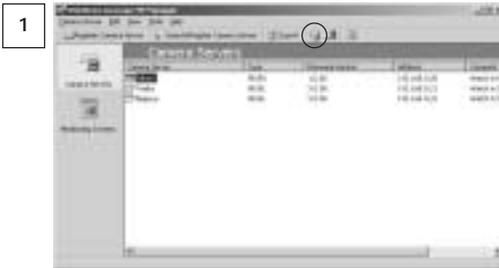
Chapter 6

Managing the Camera Servers

This chapter describes how to use WebView Livescope MV Manager to manage the camera servers such as making camera server settings or upgrading the firmware.

Setting and Managing Camera Servers

Comprehensive management of registered camera servers is possible with MV Manager. Operations such as changing camera server settings, confirming images, and upgrading the firmware in all cameras at once can be performed remotely.



In MV Manager, select a registered camera server icon by clicking on it. When you click on the Open Setup Page button on the Toolbar, the browser starts up and accesses the camera server.



This example shows the VB150 settings page.

The settings title page appears. From the browser you can make detailed settings for the camera server, settings for recording still pictures, and other settings. For details on making camera server settings, see Chapter 3 of the camera server manual.



Tip

Testing Camera Server Images

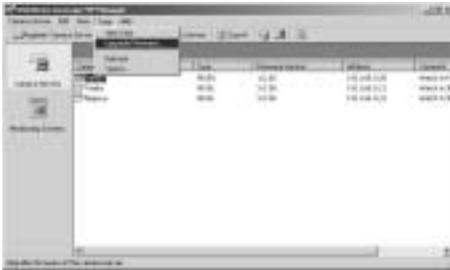


Select a registered camera server icon by clicking on it. When you click on the View Test button on the Toolbar, the window appears where you can check and confirm camera operation and images.

Upgrading the Firmware



- When upgrading the VB101, be sure to use FTP and back up the camera server file system first.
- The VB-C10/VB-C10R and VB150 cannot be upgraded from MV Manager.



In MV Manager, select a registered camera server icon by clicking on it. You can remotely upgrade the selected camera server to the latest version by choosing Upgrade Firmware from the Tools menu.

The firmware for multiple camera servers can be upgraded simultaneously by selecting multiple camera server icons.

To upgrade the firmware, you first need to obtain the new firmware. For the latest information on the new firmware, see the Web site below:

<http://www.canon.com/webview/>

1



When you choose Upgrade Firmware, a dialog box appears where you select the firmware file to be transferred to the camera server. Either enter the path directly or click Browse to select the file.

File transfer starts when you click Next.

2



The firmware file is transferred and stored in the Flash ROM. The results are then displayed. Click Close to complete.

Chapter 7

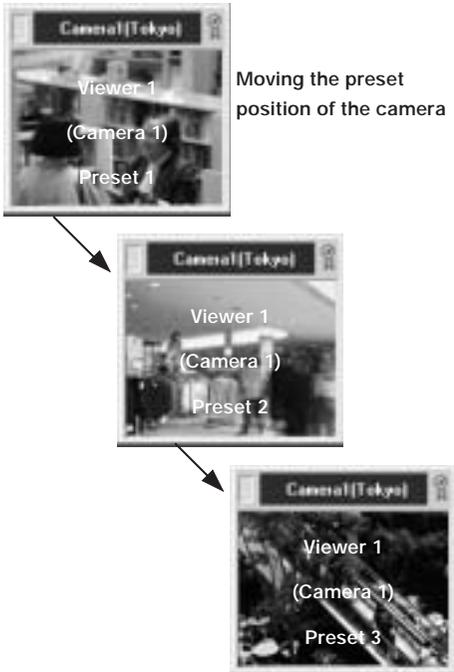
Advanced Operations

This section explains advanced operations of WebView Livescope MV Ver. 2.1, such as viewing recorded pictures and automatic operations.

Automatic Operation Functions of MV Station

Automatic camera operations are possible with MV Station. The three types of automatic camera operations are: Auto Preset Tour, Auto Switch and Video Relay, each of which can be operated independently or in combination. With appropriate settings, automatic camera operation can enable effective monitoring.

Auto Preset Tour



Auto Preset Tour is a sequential tour of a previously established preset position by one camera. At the established preset position it can be stopped only at a specified time. This saves the work of operating a camera periodically at a monitoring point.

MV Manager makes Auto Preset Tour settings for each camera. By switching Auto Preset Tour on, MV Manager implements the tour in accordance with those settings.

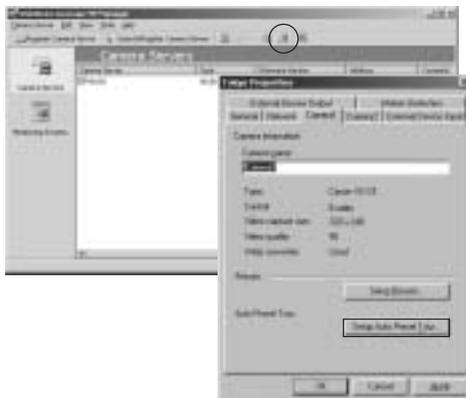


Note

Auto Preset Tour can be implemented only by viewers with MV Level or MV Level 2 control privilege. It is not available at Free Viewer Level (see p. 105).

Setting an Auto Preset Tour

1



For Auto Preset Tour, the positions that are to be toured, the sequence in which they will be toured, and the pausing span at each position, may be set freely. On the MV Manager's Camera Servers screen, select by clicking the camera server icon of the camera for which you wish to set Auto Preset Tour, then click the Properties button on the Toolbar.

Click the Setup Auto Preset Tour button on the Camera tab of the camera you wish to set on the window that was displayed.



The preset settings need to be made before using the Auto Preset Tour function. Note that the preset used in Auto Preset Tour is specified on MV Manager and that it is different from the preset on the camera server side (see p. 100).

2



The Auto Preset Tour Settings dialog box shows a list of presets registered in the Presets. Select by clicking the preset name you wish to use for Auto Preset Tour, then click "Add to Schedule" and it will be added to the Tour Schedule field. If you wish to delete an added preset name, select by clicking the preset name in the Tour Schedule field, then click Delete. To delete all names, click Delete All.

When the preset names you wish to use for Auto Preset Tour have been added to the Tour Schedule, select by clicking a preset name in the Tour Schedule field and use the Up and Down buttons to switch the sequence for making the tours. Tours will be made in sequence from the preset that appears at the top.

3

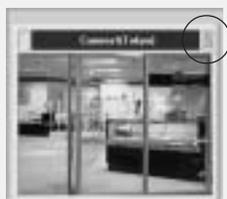


Having selected by clicking preset names in the Tour Schedule field, you can change the numbers in the Pause Span box. Pausing span can be set in five-second increments between 5 and 120 seconds.

When the setting is completed, click the Export button on the Toolbar to export the MV Data and reload it in MV station.



Viewers have an "Auto Preset Tour Indicator" that indicates the status of Auto Preset Tour.



No Auto Preset Tour has been set

Auto Preset Tour is set but is not in progress (gray display)

Auto Preset Tour in progress (colored display)

Starting/Stopping Auto Preset Tour



● Starting up Auto Preset Tour

To start up Auto Preset Tour, select by clicking the viewer that is displaying the image of the camera you wish to use for touring and then click the Auto Preset Tour button on the Toolbar.

● Stopping Auto Preset Tour

If you wish to stop Auto Preset Tour, select by clicking the viewer that is displaying the image of the camera you wish to stop touring and then again click the Auto Preset Tour button on the Toolbar.

● Auto Preset Tour for Several Cameras

Auto Preset Tours with several cameras can also be conducted at the same time. Moreover, when you click the Auto Preset Tour (All Viewers) button on the Toolbar, Auto Preset Tour can be applied to displayed images of all cameras set with Auto Preset Tour.



Note

A slight time difference may occur between the actual pause span and the time that was set.

Auto Switch



Changing camera and preset that are displayed



Auto Switch is used for switching the sequence for displaying images from the cameras of the viewer previously specified in the monitoring screen properties. Setting Auto Switch switches the connections to the specified camera server's cameras and displays images in the registered video pattern. At that time, the operations at the preset positions can proceed at the specified switching intervals. If there are more cameras than monitoring screens, several camera servers can be monitored efficiently. MV Manager makes Auto Switch settings for each monitoring screen. By turning Auto Switch on, MV Station implements operations in accordance with those settings.

Auto Switch Settings

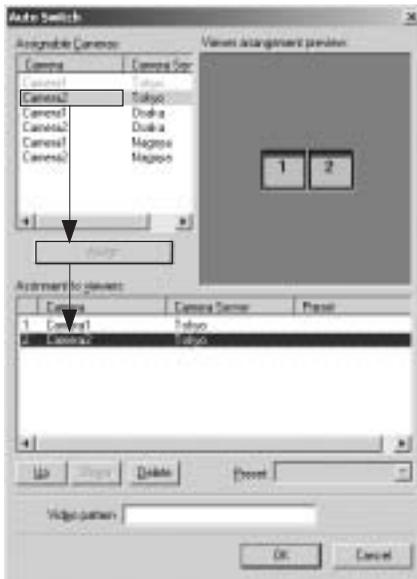
1



The assignment of cameras to a viewer, their switching sequence, preset display positions and switching intervals, can each be set freely with Auto Switch. With MV Manager's Monitoring Screens, select by clicking the icon of the monitoring screen that you wish to use for setting Auto Switch, then click Properties on the Toolbar.

Click New button in the Auto Switch field on the Video Pattern tab of the window that is displayed.

2



The Auto Switch dialog box shows a list of registered cameras that are assignable in Assignable Cameras. Select by clicking the names of the cameras you wish to assign then click Assign and they will be added to the "Assignment to viewers".

If the names of the cameras you wish to assign have all been assigned, select by clicking camera names in the "Assignment to viewers" and use the Up and Down buttons to arrange them in the viewer where you wish to display them. The viewer for the number shown in "Viewer arrangement preview" corresponds to the number in the "Assignment to viewers" field.

3



When switching to assigned camera display, cameras can be moved to previously registered preset positions. Select by clicking camera names in the "Assignment to viewers" field and select the names of the presets you wish to display from the Preset box.

Assign a name to the assigned video pattern. Enter the name in the "Video pattern name" box and click OK.

If you are switching a sequence of multiple video patterns, repeat the above procedures.

Select by clicking video pattern names shown in the "Order of Auto Switch" field and use the Up and Down buttons to switch the sequence of operations. Tour starts from the top.

The switching interval can be varied freely by changing the numerical value in the Interval box. Settings can be made in one-second intervals between 10 and 180 seconds.

When the setting is completed, click the Export button on the Toolbar to export the MV Data and reload it in MV station.



Note

The preset settings need to be made before using the Auto Switch function. Note that the preset used in Auto Switch is specified on MV Manager and that it is different from the preset on the camera server side (see p. 100).

Starting/Stopping Auto Switch



● Starting up Auto Switch

To operate Auto Switch, click the Auto Switch button on the Toolbar.

● Stopping Auto Switch

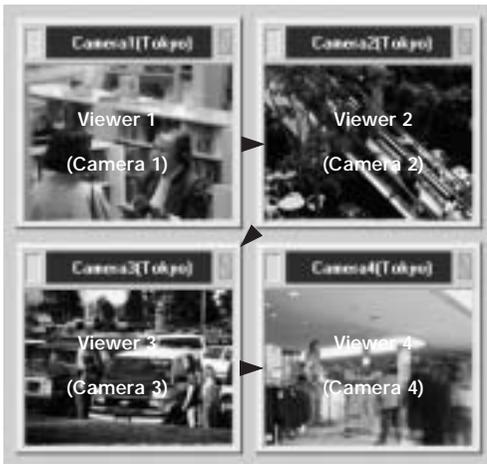
If you wish to stop Auto Switch, click the Auto Switch button on the Toolbar again.

Video Relay



Note

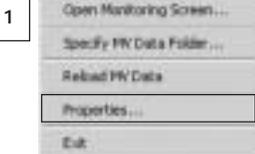
- Video Relay cannot be used with the VB-C10/VB-C10R and the VB150 with the Video Input set to Multiple.
- Some of the features of the Video Relay may be unavailable if the motion detection is enabled on the VB150 (see p. 105).



Video display sequentially switched

Video Relay is used for sequentially switching the video displays from several cameras connected to one camera server. For viewer display, since only one of several viewers can be displayed in video, automatic sequential switching saves the monitoring work involved in switching the video displays by clicking the viewers one by one.

Setting Video Relay Intervals



Video Relay lets you freely set intervals for switching video displays.

Select Properties from File in MV Station.

Alter the number in Interval under Video Relay on the General tab in the window that is displayed. You can set an interval between 5 and 30 seconds in increments of one second.

After you have made the setting, click OK or Apply.

Starting/Stopping Video Relay



- **Starting up Video Relay**

Video Relay works automatically in a situation where several cameras connected to one camera server are being shown on viewers. The switching sequence for the video display is viewer ID order.

- **Stop/Resume Video Relay**

If you wish to stop Video Relay, select one of the viewers connected to the camera server by clicking. To replay the Video Relay, click a location outside the viewers in the viewer display area or cancel the selection by selecting Release Selection on the Viewer menu.

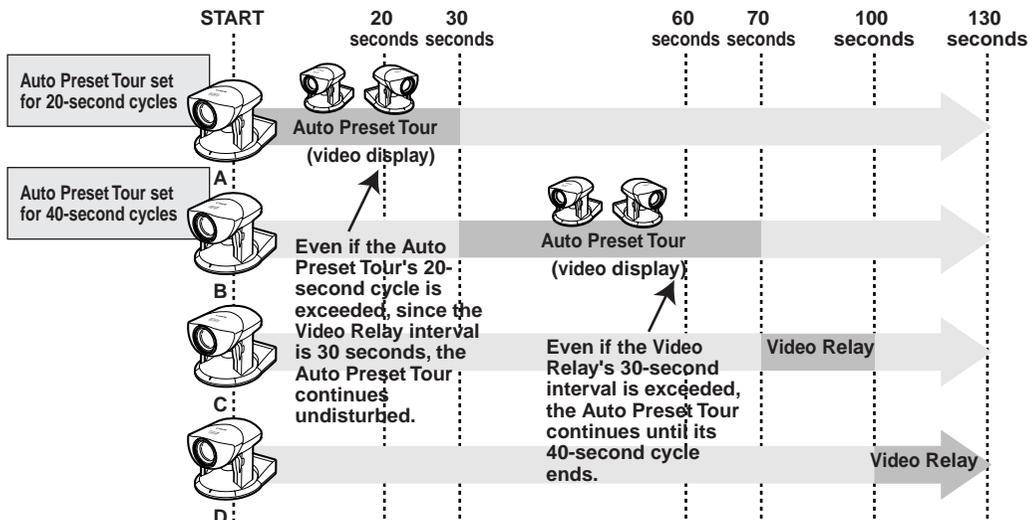
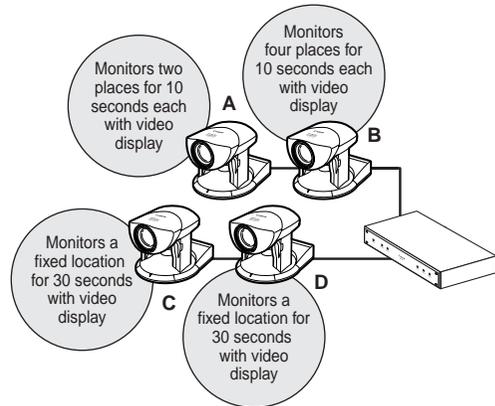
Examples of Using Automatic Operation

Auto Preset Tour Combined with Video Relay

By operating Auto Preset Tour in combination with Video Relay, the preset tour set for several cameras can be effectively displayed in video.

Let us look at an example of monitoring by four cameras connected to one camera server. Since there are a number of places that you wish to check, Cameras A and B are set up for an Auto Preset Tour. Cameras C and D are periodically observing fixed points with Video Relay.

- Camera A is set for a 20-second Auto Preset Tour for 10-second cycles for each of two places.
- Camera B is set for a 40-second Auto Preset Tour for 10-second cycles for each of four places.
- The Video Relay interval is set at 30 seconds and the sequence is A, B, C, D.



First, A starts an Auto Preset Tour. The Auto Preset Tour continues until the Video Relay is switched to B after 30 seconds and, at the time it is switched, the Auto Preset Tour (the second tour) is stopped.

Next, B starts an Auto Preset Tour. Since B's Auto Preset Tour cycle is 40 seconds, 30 seconds of Video Relay is ignored while the Auto Preset Tour continues for 40 seconds.

When B ends one cycle of Auto Preset Tour, C is displayed in video by Video Relay. C's 30-second video display start from the time when this is switched. Then switches to D and 30 seconds later, it returns to the initial cycle.

- If the Auto Preset Tour cycle is longer than the Video Relay interval, the Auto Preset Tour cycle will be continued until it has made one cycle.

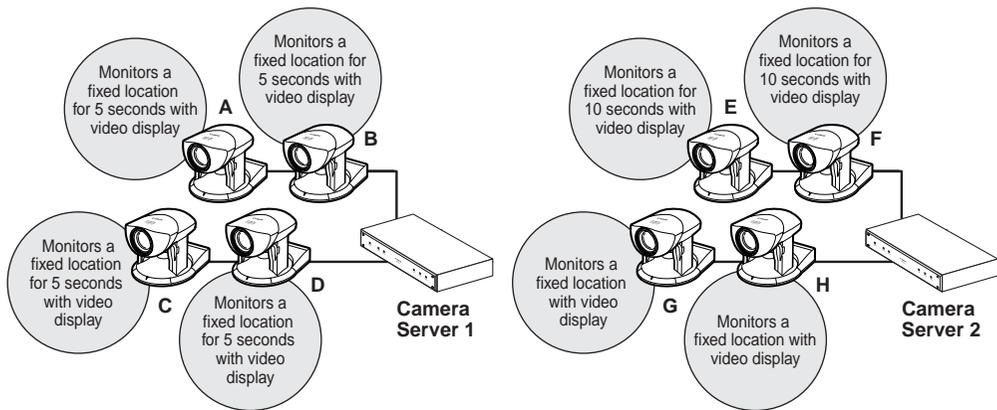
Auto Switch Combined with Video Relay

By Operating Auto Switch in combination with Video Relay, you can effectively switch cameras assigned to viewers that are set on several camera servers and display video.

Let us look at an example of two camera servers, each of which has four cameras connected for monitoring by Video Relay while cameras assigned to viewers are being switched. Camera Server 1 has Cameras A, B, C and D, while Camera Server 2 has Cameras E, F, G and H, each assigned to four viewers switched by Auto Switch.

Video Relay is set up for A to F to sequentially display video but G and H may monitor with still pictures.

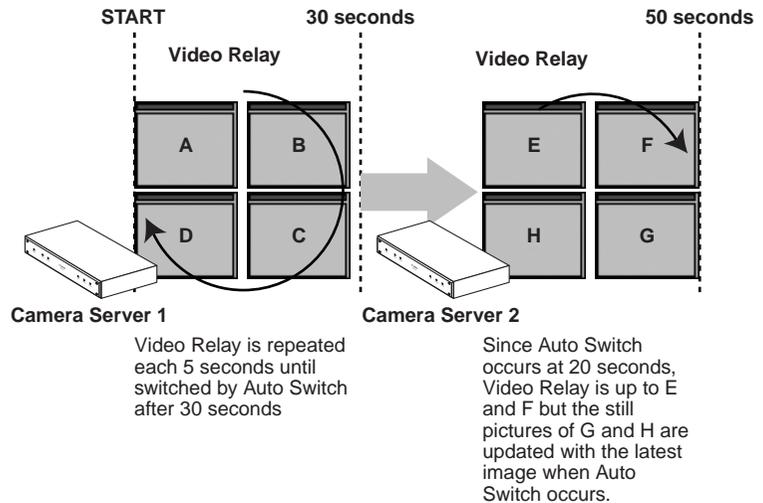
- The Video Relay interval for Camera Server 1 is set to five seconds and the sequence is A, B, C, D.
- The Video Relay interval for Camera Server 2 is set to ten seconds and the sequence is E, F, G, H.
- The Auto Switch intervals are set to 30 seconds for A to D and to 20 seconds for E to H.



First, Video Relay is repeated in the sequence A to D during the 30-second interval.

After 30 seconds, it switches to the E to H video pattern but since the interval is 20 seconds, G and H do not display video. However, G and H are updated to the latest image when the video pattern is switched.

- The still pictures of Video Relay cameras are all updated when the video pattern is switched.

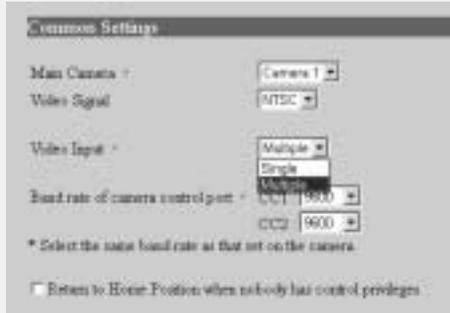


Note Auto Preset Tour and Auto Switch cannot be operated at the same time.



Tip

If the VB150 is being used, you can either select Single or Multiple for the Video Input setting.



VB150 Settings Page



If Single is selected when more than one camera is connected to the VB150, only the controllable camera's image can be displayed in video on MV Station. If Multiple is selected, multiple camera video images can be displayed at the same time on MV Station. However, multiple cameras cannot be controlled at the same time.

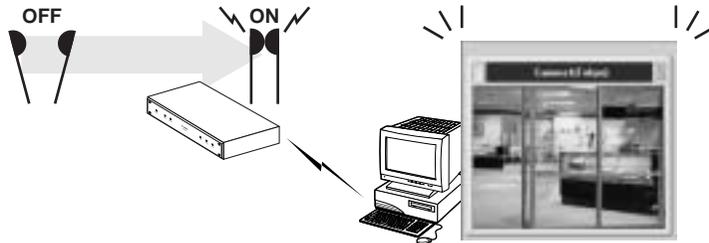


In Multiple mode, the video indicators of all viewers displaying images flash green, which indicates that the video is being displayed.

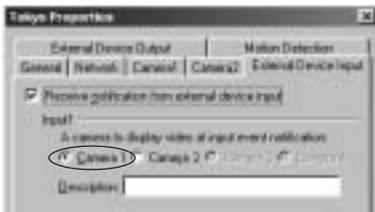
Single or Multiple can be selected on the VB150 settings page (VB150 User's Manual p.40).

External Devices Input/Output

Notification of External Device Input

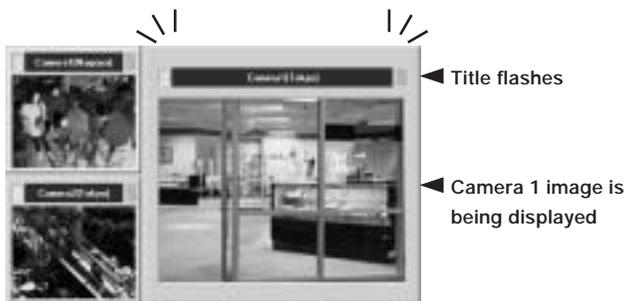
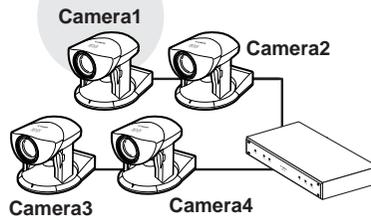


Actions such as the following can be specified to notify you on a screen being monitored by MV Station that input from an external device has occurred:



The settings are made in Camera Server Properties of MV Manager (see p.101).

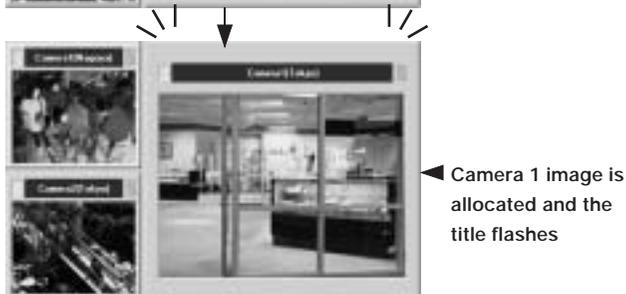
Select Camera 1 as the camera shooting the image when notification of an event is received.



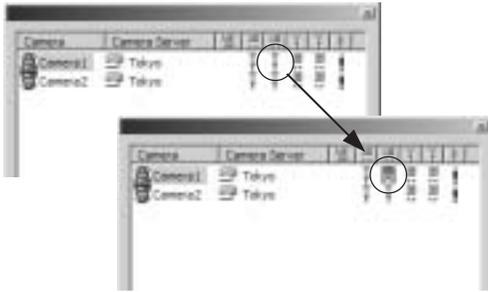
- When input from the camera server has been notified while image is being displayed, the title of the viewer can be caused to flash when the corresponding camera image is being displayed.



- When the corresponding camera image is not being displayed, the viewer can automatically display the camera image and the viewer title can be flashed.



- When input from the camera server that is not displaying image has been notified, the corresponding camera image can be allocated and displayed.
- If an input notification occurs to one of the viewers relaying videos, Video Relay will stop and the viewer that was notified will show video.



- External device input icon displayed on the camera tree, camera list or camera map changes when an input notification is received.
- A sound can be generated when external device input has been notified (see p. 107).

External device input notification settings are made in Camera Server Properties of MV Manager (see p. 101) and Monitoring Screen Properties of MV Station (see p. 107).



Note

If a camera registered on the screen was restarted while monitoring in MV Station was in progress, the screen needs to be selected again. If this is not done, the notification of input events from external devices will no longer occur.

External Device Output Control

Clicking Ext-Device Output Control on the MV Station Toolbar will let you directly control external device output.

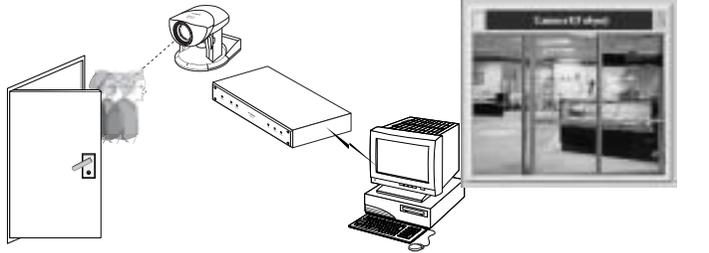


- You can switch the direct external device output terminals on/off with the Output ON and Output OFF buttons.

Motion Detection

VB150

Notification of Motion Detection

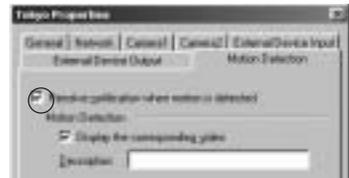


If the VB150 is being used, actions such as the following can be specified to notify you on a screen being monitored by MV Station that motion has detected.



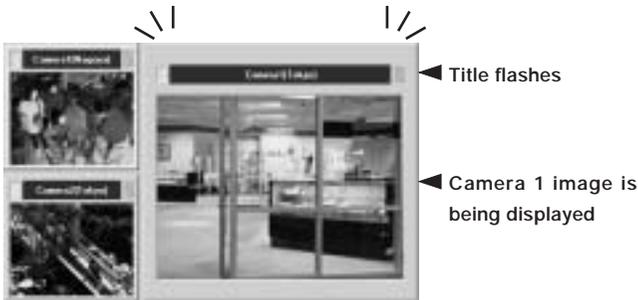
Motion Detection Setting Tool Screen

Use the Motion Detection Setting Tool provided with the VB150 to set the motion detection function of the VB150 and specify on the MV Station to receive motion detection events.



The settings are made in Camera Server Properties of MV Manager (see p.102).

● Notification of motion detection in the Camera 1 image

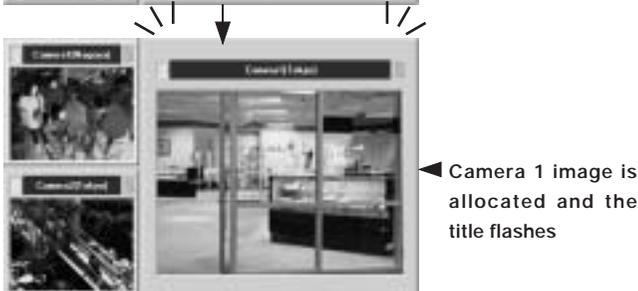


- When motion detection event from the camera server has been notified while image is being displayed, the title of the viewer can be caused to flash when the corresponding camera image is being displayed.

● Notification of motion detection in the Camera 1 image



- When the corresponding camera image is not being displayed, the viewer can automatically display the camera image and the viewer title can be flashed.
- When motion detection event from the camera server that is not displaying image has been notified, the corresponding camera image can be allocated and displayed.





- Motion detection icon displayed on the camera tree or camera list changes when motion detection notification is received.
- A sound can be generated when motion detection has been notified (see p. 108).

Motion detection notification settings are made in Camera Server Properties of MV Manager (see p. 102) and Monitoring Screen Properties of MV Station (see p. 108).

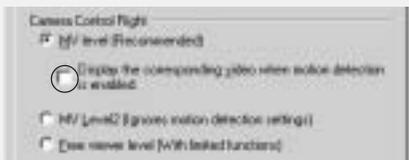


Note

If a camera registered on the screen was restarted while monitoring in MV Station was in progress, the screen needs to be selected again. If this is not done, the notification of motion detection event will no longer occur.

Notification of motion detection while Video Relay is in progress

If you receive notification of motion detection while Video Relay is in progress, actions vary depending on the Camera Control Right settings.



- Notification of motion detection in the Camera 1 image



If the "Display the corresponding video when motion detection is enabled" box is not selected (see p. 104), the camera in which the motion was detected displays the video. As other viewers cannot obtain the camera control privileges, the display either stays as a still picture, or nothing is displayed. This is because the motion detection obtains the camera control privileges at a higher priority level than MV Level (see p. 105).

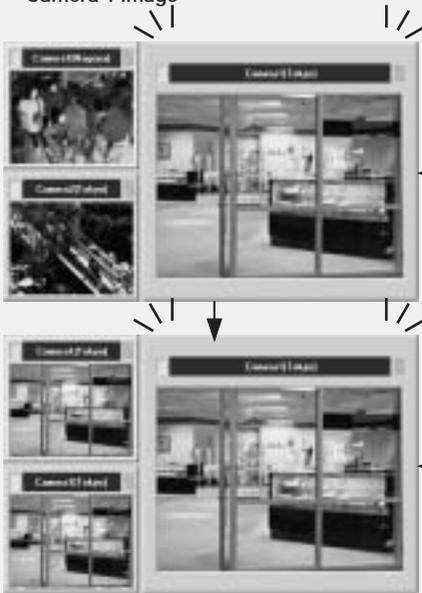
← Camera 1 image becomes video display and the title flashes

← Camera control privileges cannot be obtained with other viewers



If the "Display the corresponding video when motion detection is enabled" box is selected, all viewers display the video from the camera that detected the motion.

● Notification of motion detection in the Camera 1 image



Camera 1 image becomes video display and the title flashes

Other viewer also displays the Camera 1 image in video

Notification of Motion Detection and Camera Control

As the motion detection obtains the camera control privileges at a higher priority level than MV Level (see p. 105), if motion is detected and video is displayed in the viewer from the camera that detected the motion, you cannot control the camera (only while motion is detected). If you want to control the camera while motion is detected, changing the level control right to MV Level 2 allows you to obtain the camera control privileges.



To switch the camera control level to MV Level 2, right-click on the viewer and select "MV Level 2 Control Right" from the menu.

Motion detection cannot be notified while camera control privileges are being obtained with MV Level 2 because motion detection cannot obtain camera control privileges. To receive motion detection notification again, select "Revert to MV Level Control Right" to return the control level to MV Level.

The Free Viewer Level selected in the monitoring screen cannot be changed to MV Level or MV Level 2 in the MV station.



Caution

[Notes on Using This Function]

The Motion Detection Function is not suited to applications where high levels of reliability are demanded. Therefore, we recommend that you not use this function for monitoring or other purposes if consistently high levels of reliability are required. Canon accepts no liability whatsoever for faults, etc. resulting from the use of the Motion Detection Function.



Note

Use the Motion Detection Setting Tool provided in the VB Administration Tools to specify the motion detection schedule, area ratio, sensitivity, etc (see VB150 User's Manual p. 80).

Recording and Viewing Pictures

Camera servers have functions for recording pictures (still pictures) that are switched on/off by input/output from external devices and are based on motion detection and previously established schedules. The recorded pictures can be managed and automatically downloaded or downloaded, searched and displayed by MV Station.

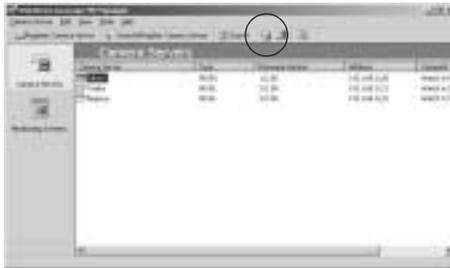


Note

Picture recording functions are camera server functions. For details of functions and settings, see "Using the Picture Recording Function" in the Camera Server Manual or if the VB150 is being used, see Picture Recording User's Guide contained in the supplied CD-ROM.

Picture Recording Settings

1



Select by clicking a registered camera server icon in MV Manager and click Open Setup Page on the Toolbar to startup the browser and access the camera server.

2



The example is the VB150 settings page.

The Settings Title Page will be displayed. Settings for recording schedules and recording pictures in response to external device (such as sensors) are to be made on the "Picture Recording and External Device I/O" Settings Page.

3



Log settings are to be made on the "Miscellaneous" Settings Page in order to write the external devices input and motion detection logs to the log file.

Using VBIImageBrowser



VBIImageBrowser is used as the tool for managing images and searching and displaying downloaded recorded pictures.

To start up VBIImageBrowser, click the View Recorded Pictures button on the MV Station Toolbar.

Screen Configuration

"Camera server tree"

Image files downloaded from the camera server are displayed in a tree according to the camera server and recorded conditions.



"Thumbnail display area"

Condensed images contained in the folder selected in the image folder tree are displayed here.

"List display area"

Detailed information about the image contained in the folder selected in the image folder tree is listed here.

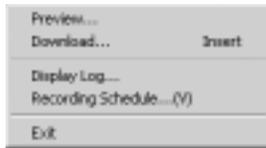
"Date-setting frame"

This lets you specify the date (of picture recorded) and limit the range of images to be displayed by the camera server tree.

"Image folder tree"

Files of images to be managed are classified according to server and recorded condition and displayed as a tree.

Menu



Camera Server

"Preview"

Previews the recorded pictures in the server before downloading.

"Download"

Downloads recorded pictures from the selected camera server.

"Display Log"

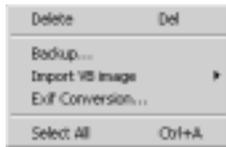
Downloads the log file from the selected camera server and displays the log.

"Recording Schedule"

Opens the "Picture Recording and External Device I/O" Settings Page by accessing the selected camera server.

"Exit"

Quits VImageBrowser.



Image

"Delete"

Deletes selected images.

"Backup"

Lets you take a backup of selected images.

"Import VB image"

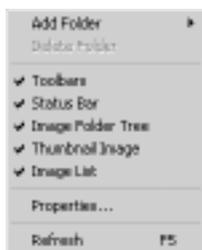
A VB image saved in the PC is imported as a camera server image.

"Exif Conversion"

Converts images to Exif format.

"Select All"

Selects all images in a selected folder.



View

"Add Folder"

Adds a folder to Image Folder and Backup on the image folder tree.

"Delete Folder"

Deletes an Image Folder, Backup and Preview folder from the image folder tree.

"Toolbars/Status Bar"

Shows or hides Toolbar and/or Status Bar.

"Image Folder Tree/Thumbnail Image/Image List"

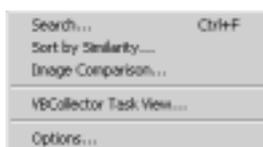
Shows or hides image folder tree, thumbnail image and/or image list.

"Properties"

Displays detailed information about a selected camera server or images.

"Refresh"

Updates contents of display to the latest information.



Tools

"Search"

Searches the camera server tree for images with specified attributes.

"Sort by Similarity"

Sorts images according to their similarity with a selected image.



Toolbar



"Search image"

Searches the camera server tree for images with specified attributes.



"Delete image"

Deletes the selected images.



"Download recorded picture"

Downloads recorded pictures from the selected camera server.



"Sort by similarity"

Sorts images according to their similarity with a selected image.



"Compare 2 continuous images"

Detects a different image in a series of images.



"Refresh"

Updates contents of display to the latest information.



"Toggle image folder tree"

Shows or hides image folder tree.



"Toggle image list"

Shows or hides image list.



"Toggle thumbnail image"

Shows or hides thumbnail images.



"Close all detail display windows"

Closes all windows when detail display windows are displayed.



"Confirm or set picture recording schedule"

Opens the Picture Recording and External Device I/O Settings Page by accessing the selected camera server.



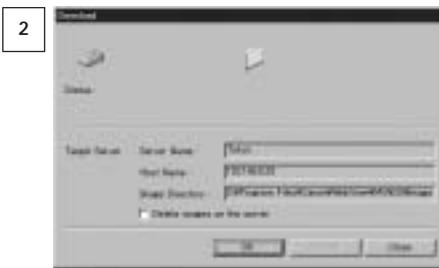
"Task settings"

Displays VBCollector Task View.

Downloading All Recorded Pictures



Select by clicking the camera server you wish to download from the camera server tree, then click "Download recorded picture" on the Toolbar.



The Download dialog box will appear and downloading will start when you click OK. If you choose "Delete images on the server", the pictures you have downloaded will be deleted from the camera server.

Downloaded images will be added to the recorded conditions folder that corresponds to the camera server tree.

Automatic Downloading of Recorded Pictures



Click "Task settings" on the Toolbar to start up the VBCollector Task View.

Using VBCollector lets you download recorded pictures periodically and automatically. Please refer to "Using VBCollector" in your camera server manual for methods of making VBCollector settings. If you click Refresh on the Toolbar, VImageBrowser will reflect the images downloaded automatically by VBCollector.



Tip

A PC with this software (WebView Livescope MV Ver.2.1) installed will be different from one with only VBCollector installed in the following ways:

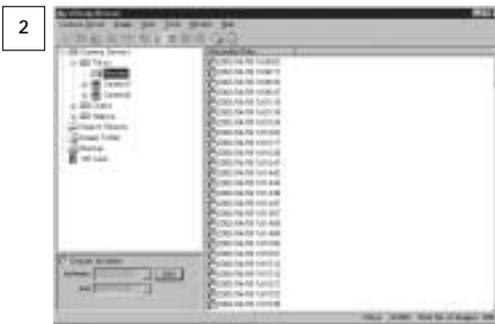
- There is no Server menu. MV Manager handles Server "Add" and "Edit".
- There is no "Display Images" or "Delete Image" in the Tools menu. VImageBrowser handles these items.
- Task display is limited to selected camera server in the VImageBrowser camera server tree.

Preview (Select recorded pictures and download)



Recorded pictures in the camera server can be directly viewed (previewed) before downloading them to the PC. In Preview, it is also possible to select pictures in a list and download only those pictures.

Select by clicking the camera server you wish to download from the camera server tree then choose Preview from the Camera Server menu. In the dialog box that appears, set "Camera", "Trigger" and "Date & Time" for the recorded pictures you wish to preview.



Recorded pictures that match these conditions will be listed when you click OK. Click the pictures you wish to download from the list. The selected pictures will start to be downloaded when you click "Download recorded picture" in the Toolbar. If several pictures are to be downloaded, for a series of pictures hold down the [Shift] key while you click, or for separate selections hold down the [Ctrl] key while you click.



Tip

In Preview, it is possible only to delete, download, or display details of recorded pictures selected from the list.



Note

The recorded pictures you select here are in the camera server and are directly deleted from the server when Delete Recorded Picture is selected on the list in Preview. Please keep in mind that it is different from the "Delete image" on the Toolbar which deletes the images that have been downloaded from the camera server to the PC.

Displaying Images



When "Trigger" or "Date & Time", whichever is the lowest level folder in the camera server tree under Camera Servers, is opened, image files contained in that folder will appear as thumbnails and listings. Also, when "Search Results/Search Name", "Image Folder/Folder Name", "Backup/Date", "VB Card/Time" folders are opened, the image files contained in those folders will appear as thumbnails and listings. Double clicking the thumbnail or listing of an image file will open as detailed display window, where you can view the images and detailed information such as the recording conditions.

"Image display area"

Image is displayed.

"Image information display area"

Detailed information about the image is displayed.

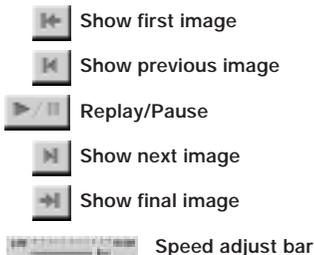


"Resize button"

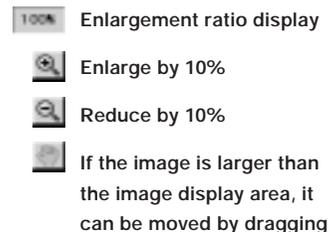
For varying the window size.

"Animation control"

Image file is displayed serially.



"Enlargement/Reduction control"





Tip

Specify Display Range



When downloading is performed over a long period, many "Recorded Date" folders will be created and the display becomes difficult to see. It will then be helpful to use "Date-setting frame" to limit the recorded dates to be shown in the camera server tree. First, click the Edit button and set the "between" and "and". Click the Apply button and then select the "Display all dates" so that the only images corresponding to the specified range are displayed in the camera server tree.

Image Searching

1



Select by clicking the folder in the camera server tree you wish to search, and then click "Search image" on the Toolbar. Folders to be searched are folders under Camera Servers or Search Results.

The Search dialog box will appear when you click "Search image".

The Search Name you enter will be the name of the folder to be created and can be used for management. After you have specified "Date & Time", "Camera" and "Trigger", click OK.

When the search is performed, a folder named for the Search Name will be created under Search Results in the image folder tree.

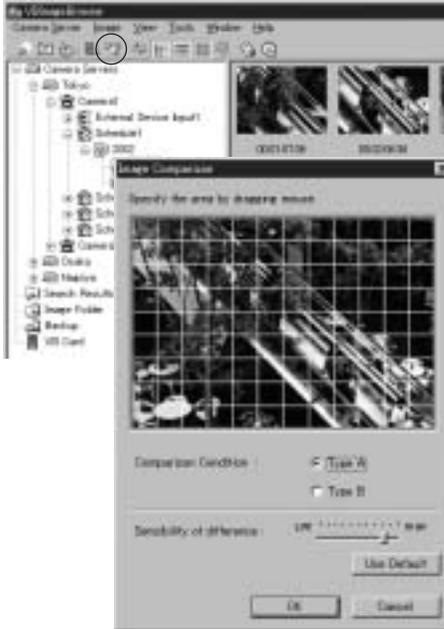
2



Image files that match the search conditions will be collected in the search name folder that has been created under the Search Results folder in the image folder tree.

Comparing Images

1



In cases where there seem to be many similar images, you can check the recorded content easily by inspecting to search for points where the image contents have changed.

Select by clicking the folder on the image folder tree containing the images you wish to compare and select by clicking the image you want to compare on the list or in the thumbnails. The Image Comparison dialog box appears when you click "Compare 2 continuous images" on the Toolbar. The image is shown divided into 12×9 blocks and you will select the area to be compared by dragging on the screen. The selected blocks are shown in a red frame.

"Comparison Condition" judges whether the color layout of images are similar or not. Try both Type A and Type B methods and use the one that give good results.

"Sensibility of difference" sets levels for judging different images. The sensitivity becomes higher as you move the slider towards "HIGH" and even small differences are detected.

After setting, click OK.

2



"Image comparison control bar" is displayed on the Toolbar.

Comparison from the selected images proceeds in the order in which they are displayed in the list or thumbnails. When different images are detected, the series of two images with points of difference become selected and the comparison stops. If you wish to make further comparisons, click Resume on the "image comparison control bar". Click Stop to stop image comparison during execution; click Finish to quit image comparison.



"Image comparison control bar"



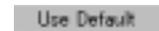
"Resume/Stop" executes or stops comparison



"Finish" quits image comparison



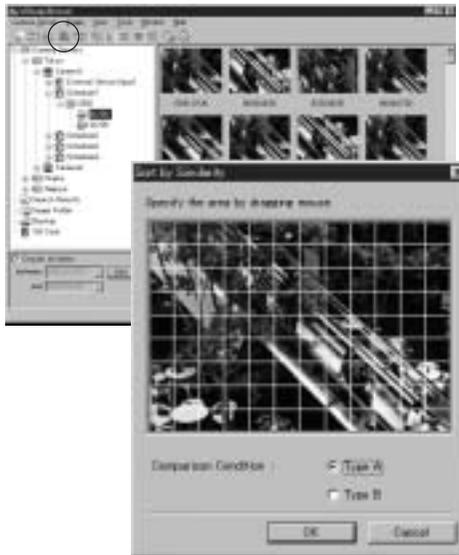
"Sensibility of difference" sets detection sensibility for different images



"Use Default" restores "Sensibility of difference" setting to default value.

Sorting Images in Order of Similarity

1



Based on a certain image, the list or thumbnails can be rearranged in the order of their similarity to that image.

Select by clicking the folder on the image folder tree containing the images you wish to compare and select by clicking the image you want to compare on the list or in the thumbnails. The "Sort by Similarity" dialog box appears when you click "Sort by similarity" on the Toolbar. The image is shown divided into 12×9 blocks and you will select the area to be compared by dragging on the screen. The selected blocks are shown in a red frame.

"Comparison Condition" judges whether the color layout of images are similar or not.

Try both Type A and Type B methods and use the one that give good results.

After setting, click OK.

2

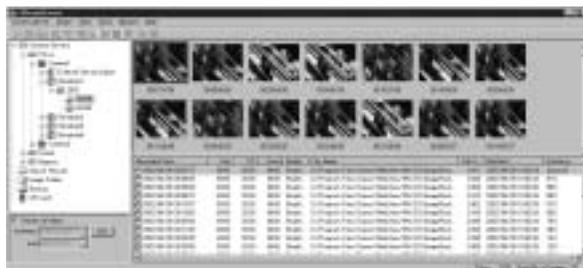


Image shown on the list and by thumbnails will be sorted by similarity.

Adding a Folder



JPEG image files saved in the PC can be added to the image folder tree by folder units and viewed.

Choose [Add Folder]-[Image Folder] from the View menu. Enter the path of a folder to be added to the image folder tree, or click Browse to select a folder you wish to add, then click OK.

When it is executed, the folder will be added to the image folder tree under Image Folder.



Browse the VB Card Folder



Recorded pictures can be imported by inserting the flash memory card into a PC card drive. Choose Options from the Tools menu and set PC Card Drive to the letter indicating the card drive of your personal computer. Insert the flash memory card into the PC card drive, right click VB Card on the image folder tree and choose Reload from the pop-up menu. The VB Card folder can be accessed when Reload is selected.

From the image folder tree, select by clicking a folder or image file under VB Card then choose [Import VB image] - [Name of camera server to be imported] from the Image menu.

When import is executed, they will be added to the camera server tree as camera server images that have been imported.



VB Images Backing Up



You can make backups of images. Images to be backed up are images contained in folders under Camera Servers or Search Results.

To make backups, first select by clicking the folders in the camera server tree that you wish to back up, or select by clicking the images from the list or thumbnails that you wish to back up. Next, choose Backup from the Image menu. Enter the path of the backup destination folder or select a backup folder by clicking Browse and then click OK. When backup is executed, a folder will be added under Backup in the image folder tree. A removable media drive can also be specified as the backup destination.

Import VB Images (Backup)



VB images and backup images saved in the PC can be imported as camera server images.

First add a importing folder under Image Folder or Backup in the image folder tree (see p. 94 for details on Adding a Folder.). To import VB images, select by clicking the folder added to the image folder tree, or select by clicking the images you wish to import from the list or thumbnail display. Then, choose [Import VB images] - [Name of camera server to be imported] from the Image menu.

When importing is executed, they will be added to the camera server tree as camera server images that have been imported.

Displaying Camera Server Information



Camera server information can be displayed.

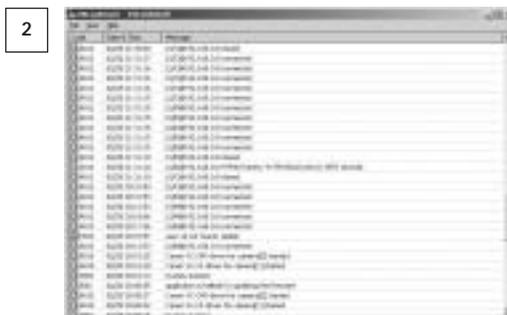
Select by clicking the camera server in the camera server tree. Then choose Properties from the View menu to open the Server Information dialog box.

Viewing the Log



The camera server log can be downloaded and viewed.

Select by clicking the camera server on the camera server tree whose log you wish to view, and then choose Display Log from the Camera Server menu.



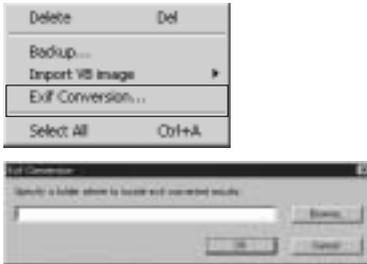
The Log Viewer will start up. For information about the contents displayed by the Log Viewer, please refer to the item on "Log Viewer" in your Camera Server Manual.



Tip

For the log to be viewed, the camera server settings must include a setting for writing the log (see p. 84).

Converts VB images to Exif Format.



An image files can be output as an Exif file by adding an Exif tag.

Select by clicking the folder on the camera server tree that contains the images you wish to convert, or select by clicking the images you wish to convert from the list or thumbnail display. Choose Exif Conversion from the Image menu. Enter the path of a folder to output Exif files, or click Browse to select an output destination folder, then click OK.

Information to be added to Exif tags

"Image resolution in width direction", "Image resolution in height direction", "Unit of X and Y resolution", "Subsampling ratio of Y to C", "Exif tag", "Exif version", "Meaning of each component", "Supported FlashPix version", "Color space information", "Valid image width", "Valid image height", "Manufacturer of image input equipment", "Model of image input equipment", "Date and time of original data generation", "Date and time of digital data generation", "Magic Number (identity of recorded picture file)", "Trigger", "Camera Number", "Pan Angle", "Tilt Angle", "Zoom Value", "Brightness", "Recorded Time", "External Device Input Conditions", "External Device Output Conditions", "Video Quality"



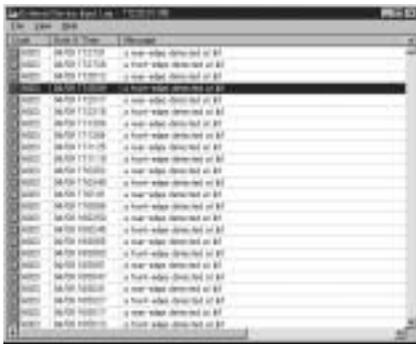
Tip

Exif is an image file format based on TIFF and JPEG, intended for storing various items of information for use with digital cameras etc.

External Device Input/Motion Detection and Picture Recording

You can start up the "External Device Input Log Viewer" from MV Station to display only the logs of external device input (see p. 78) events and motion detection (see p. 80) events that have occurred. You can view the recorded pictures for one minute before and after the time the event occurred.

Examining the External Device Log



The External Device Input Log Viewer will start up when you click "View Ex-Device Input Log" on the MV Station Toolbar. Whereas the Log Viewer (see p. 96) shows all contents of the log, the External Device Input Log Viewer shows only the logs of external device input events and motion detection events. For information about the contents displayed by the Log Viewer, please refer to the item on "Log Viewer" in your Camera Server Manual.

Displaying Images Before and After an Event



From the log list, double click the log of the event for which you wish to show the recorded pictures, or select by clicking the log, and then choose View Images from the View menu to have VBIImageBrowser show the recorded pictures for one minute before and after the event.



Tip

For the log to be viewed, the camera server settings must include a setting for writing the log (see p. 84).

Other Advanced Settings

MV Manager and its Other Functions and Settings

Camera Server Properties

Select a camera server and click the Properties button on the Toolbar to display the Properties dialog box. Properties lets you make detailed camera server settings.

● General Tab

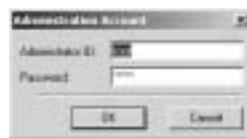


- Lets you edit "Camera server name" and "Comment".
- Lets you confirm the type of camera server and firmware version.
- View Test lets you confirm the images from the cameras connected to the camera server.
- Upgrade Firmware enables a remote firmware upgrade to be performed (for VB101 only).
- A list of monitoring screens in which camera servers are registered can be displayed for confirmation.

● Network Tab



- Lets you confirm camera server address, HTTP port (can be edited) and settings page URL.
- Settings page can be opened with the Open Setup Page button.
- The Administration Account button produces a display for Administrator ID and password. These items can be changed if there is a change in the administration account.



- You can select and alter the connection protocol from WV-TCP, WV-HTTP and Auto-Select. Auto-Select is initially connects by WV-TCP and connects by WV-HTTP if there is a failure. The usual setting is Auto-Select but WV-HTTP is set if the connection passes through a firewall (see p. 18).
- The timeout value when the camera server is connected by MV Station can be set with the "Connection timeout" slide bar between 2 and 60 seconds in one second intervals.
- The upper limit for frame rate when the camera server is connected by MV Station can be set to a value selected from the "Upper limit of framerate" box.

● Camera Tab



For the VB150 (or the VB101), tabs will be created for all cameras for which "Use this Camera" is selected in the settings page. For the VB-C10/VB-C10R, tab will be created for Camera 1.

- Camera name can be edited. The camera name entered in the camera server's settings page will be set by default.
- You can confirm the type of camera, whether controlled or not, video capture size, video quality, and whether a wide-angle converter is used or not.
- Preset settings can be made with the Setup Presets button.
- Auto Preset Tour settings can be made with the Setup Auto Preset Tour button.

Preset Settings

1



Preset angles can be set in the Presets Settings dialog box by the following three methods:

- (1) Click Display Viewer and specify angles by operating the viewer that is displayed. Use the Add button to capture that position as a preset.
- (2) Click the New button and a yellow frame will appear in the Preview window. Move pan and tilt positions by dragging the yellow frame and change the zoom value by dragging the edge of the frame.
- (3) Click the New button and change the values in the "Pan", "Tilt" and "Zoom" boxes.

2



Registered presets will appear in the Presets. Select by clicking a preset name and you can then alter the angles by the three methods shown above. If you wish to compensate for backlighting, select the "Backlight Compensation" box.

● External Device Input Tab



If the "Receive notification from external device input" box is selected, the following settings will be available.

- External device input icon allocated on the camera tree, camera list or camera map changes when an event notification is received.
- You can select which camera to display the image when notification of an event was received.
- "Description" is text that is shown in the MV Station external device input icon captions and tool hints. The "External Device Input Name" entered in the camera server's settings page is set by default.
- You can specify the method of flashing the viewer title of the camera that corresponds to the input notification. When "Specify the span" is selected, flashing will occur only for the period set in the box. This can be set between 0 and 99 seconds in one-second increments. When set to "0", flashing will continue until you click on the viewer to select it. When "Blink during ON event" is selected, flashing will continue while it is on.

● External Device Output Tab



"Description" is text that is shown in the MV Station external device output icon captions, tool hints and in the "External Device Output Control" dialog box. The "External Device Input Name" entered in the camera server's settings page is set by default.

● Motion Detection Tab



If the "Receive notification when motion is detected" box is selected, the following settings will be available.

- Motion detection icon allocated on the camera tree, camera list or camera map changes when an event notification is received.
- If the "Display the corresponding video" box is selected, and an event is received, the image from the camera that detected motion is allocated to the viewer and displayed. If video relay is in progress, all viewers display the video image from the camera that detected the motion. Viewers that are unable to allocate and display the image either display a still picture or no image at all (see p. 80).
- "Description" is text that is shown in the MV Station motion detection icon captions and tool hints.

- You can specify the method of flashing the viewer title of the camera that corresponds to the motion detection notification. When "Specify the span" is selected, flashing will occur only for the period set in the box. This can be set between 0 and 99 seconds in one-second increments. When set to "0", flashing will continue until you click on the viewer to select it. When "Blink during ON event" is selected, flashing will continue while it is on.



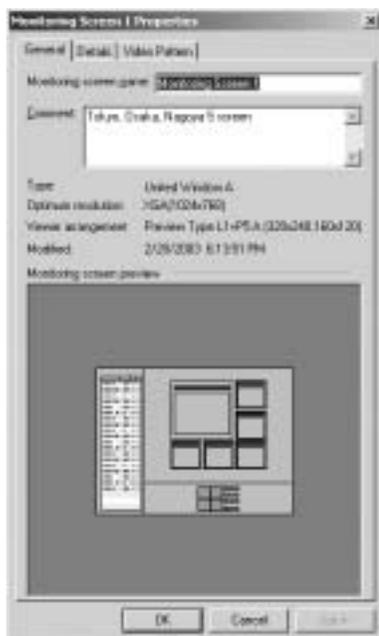
Note

If properties settings have been changed, they must be exported in order for the settings to be reflected in monitoring screens (see p. 46).

Monitoring Screen Properties

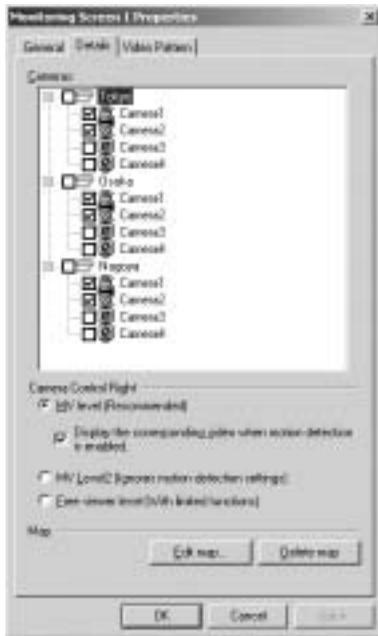
Select monitoring screen and click the Properties button on the Toolbar to display Properties dialog box. You can set monitoring screen details in properties.

● General Tab



- You can edit "Monitoring screen name" and "Comment".
- You can confirm screen type, optimum resolution and date-time of update.
- You can view and confirm viewer arrangements.

● Details Tab



- You can select the cameras to be used. Select by checking the boxes. Also, when a camera server is selected directly, all cameras connected to that camera server will be selected. Deselect any cameras that are not to be used.
- You can select from "MV Level", "MV Level 2" or "Free viewer level" as the camera control right level (see p. 105).
- If the motion detection is enabled on the VB150, be sure to select the "Display the corresponding video when motion detection is enabled" check box.
- You can start up Map Editor with the "Edit map" button to edit maps. You can also delete saved maps with the "Delete map" button.



Note

In the MV Station, you can temporarily switch the control right level from MV Level to MV Level 2 on the monitoring screen.



To switch the camera control rights level to MV Level 2, right-click on the viewer and select "MV Level2 Control Right" from the menu. To revert to MV Level, select "Revert to MV Level Control Right".

The Free Viewer Level selected in the monitoring screen cannot be changed to MV Level or MV Level 2 in the MV station.



Tip

Camera Control Right Levels

The three types of camera control right level are MV Level, MV Level 2 and Free Viewer Level. The choice between them should be made in accordance with your purpose. Free Viewer is the viewer provided with the camera server product such as the Viewer for Java (previous name: Java Viewer), Viewer for PC (previous name: Helper Viewer), etc.

Besides these three types, there is also the Admin Viewer Level. The Admin Viewer Level is the camera control right level that is applied if the camera server is accessed from the Admin Viewer (the viewer provided with the camera server product) and has priority over the MV Level, MV Level 2 and Free Viewer Level. For more information about the Admin Viewer, see the manual supplied with the camera server.

MV Level

- If you wish to use all MV functions, choose MV Level.
- So long as there is no other client using Admin Viewer Level and MV Level, the control right can be maintained for an unlimited period. If another client is connected to the same camera server, the control right will move to the one connected later. The control right cannot be obtained, however, if there is a client connected at the Admin Viewer Level or MV Level 2.
- Some of the features of the Video Relay may be unavailable or camera control may be limited while motion detection is being notified from the VB150 (see p. 80).

MV Level 2

- MV Level 2 is the camera control right level that has priority over MV Level and the camera can be controlled irrespective of motion detection. If MV Level is being used and motion detection is notified from the camera server, MV Level cannot take the camera control right from motion detection since motion detection has priority over MV Level. In this event, use MV Level 2 to temporarily obtain camera control right.



- The motion detection function will be limited in MV Station (see p. 83).

Free Viewer Level

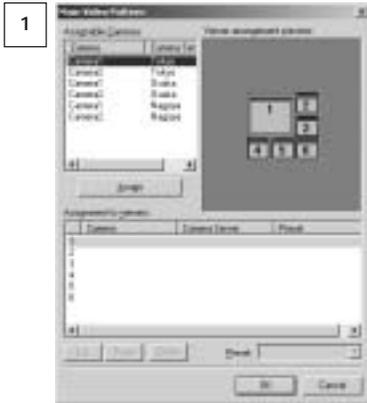
- The period for maintaining the control right is limited to the period that is set in the camera server.
- Control right at Free Viewer Level cannot be obtained if there is a user connected at Admin Viewer Level or MV Level.
- Auto Preset Tour cannot be operated.
- External device input/output control cannot be operated.
- VBIImageBrowser cannot be started up.

● Video Pattern Tab



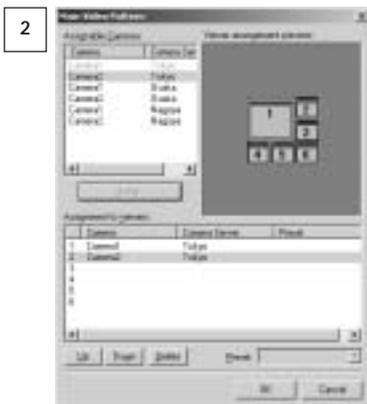
- The Settings button lets you set the video pattern of the camera that is displayed in the monitoring screen as a default.
- Lets you make Auto Switch settings (see p. 70).
- Lets you specify whether to execute the above settings when monitoring screen has been selected in "Operation settings". By selecting "Display main video pattern", "Start Auto Preset Tour" and "Start Auto Switch", they can be displayed and started.

Main video pattern settings



The Main Video Pattern dialog box lets you allocate cameras to viewers and freely specify positions for presets to be displayed.

It shows a list of camera registered in Assignable Cameras. Select by clicking the names of the cameras you wish to allocate and it will be added to the "Assignment to viewers" field when you click the Assign button.



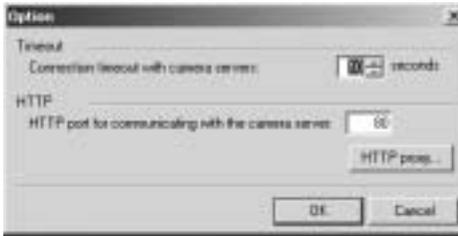
Once the names of the cameras you wish to allocate have all been allocated, select by clicking camera names in the "Assignment to viewers" field and use the Up and Down buttons to arrange them in the viewer where you wish to display them. The viewer for the number shown in "Viewer arrangement preview" corresponds to the number in the "Assignment to viewers" field.

Presets registered in the Preset box will be displayed. Select the names of those you wish to have displayed.

Click OK.

Option

Select Option from the Tools menu to display the Option dialog box. You can make timeout and HTTP settings under Option. You can make a connection passes through a firewall by using the HTTP proxy.



- Timeout lets you set a timeout for the connection with the camera server. Settings may be between 5 and 60 seconds in one-second increments.
- With HTTP you can set HTTP port number for communication with the camera server. You can also make proxy settings with the "HTTP proxy" button.

MV Station and its Other Functions and Settings

Monitoring Screen Properties

Select Properties on the File menu to display the Properties dialog box. Properties lets you set monitoring screen details.

● General Tab



- With Camera Control, you can select the method of camera control on the viewer screen (see p. 60).
- You can set the video relay interval. Settings may be between 5 and 30 seconds in one-second increments.

● External Device Input Tab



- If "Display the video" is selected, when notification of external device input comes from the camera server that is not displaying the image, the image will be displayed automatically.
- If "Play sound when the external device input is notified" is selected, by specifying with "Sound file" a sound file that can be played back, a sound will be generated when there is notification of external device input.

● Motion Detection Tab

VB150



- If "Display the video" is selected, when notification of motion detection comes from the camera server that is not displaying the image, the image will be displayed automatically.
- If "Play sound when detection of motion is notified" is selected, by specifying with "Sound file" a sound file that can be played back, a sound will be generated when there is notification of motion detection.

Option

Select Option from the Tools menu to display the Option dialog box. Under Option, you can specify image recording folder and make HTTP proxy setting.

● General Tab



- MV Data folder and Start Screen can each be verified.
- The "Image recording folder" is a folder for images downloaded by VBImageBrowser. You can change the image recording folder by clicking the Change Folder button and specifying a folder.

● Network Tab



- All MV Station traffic can be controlled in Traffic with the slider.
- You can set a proxy with the HTTP Proxy button.

● Operation Restriction Tab



- In MV Station you can make operation restrictions enabled or disabled. When enabled, the restrictions are cancelled by entering a password. When the restrictions are disabled, the operations restrictions can be enabled by clicking Enable button.

Appendix

Troubleshooting

■ Cannot install

- If Windows 2000 or Windows XP is being used, check to be sure log-in has been made with the administrator.
- MV Manager cannot be installed in a PC where MV Station has already been installed. First uninstall MV Station before installing MV Manager.
- MV Station cannot be installed in a PC where MV Manager has already been installed. First uninstall MV Manager before installing MV Station.
- MV Manager/Station cannot be installed in a PC where VBCollector has already been installed. First uninstall VBCollector before installing MV Manager/Station.

■ Cannot register camera server

- Refer to error messages (1) -(7).
- If the camera server is being accessed via a proxy, be sure to set the proxy in Option from the Tools menu of MV Manager.

■ Failed to search camera servers

- Camera server searches are performed by transmitting broadcast packets. Camera servers on networks that cannot be reached by broadcast packets cannot be detected. Redo the camera server registration from "Register Camera Server".

■ MV Station does not start up

- There is a possibility that the location of the MV Data folder was not correctly specified. Specify it correctly and try starting up MV Station again.

■ Images are not displayed

- Refer to error messages (16) - (22).
- If connection to the camera server is being made via a proxy, be sure to set the proxy in Option from the Tools menu of MV Station.

■ Cannot control the camera

- Make sure the RS-232C cable linking the camera server and the camera is correctly connected and power to the camera is on.
- See if the camera server has been set not to control the camera.
- See if extreme view restrictions have been set for the camera server.

■ Created monitoring screen does not fit into display size

- The Display Size that was specified in the Create Monitoring Screen Wizard of MV Manager is larger than the display size of the PC running MV Station. Specify a Display Size that is smaller than the display size of the PC running MV Station.

■ The camera source window does not appear

- If Separated Window A or Separated Window B has been specified in the Create Monitoring Screen Wizard of MV Manager, the camera source window does not appear as a default. Please select from the View menu.

■ The camera control panel does not appear

- If United Window B or Separated Window B has been specified in the Create Monitoring Screen Wizard of MV Manager, the camera control panel does not appear as a default. Please select from the View menu.

Error Messages

MV Manager Error Messages

(1) Network connection errors (DNS errors): Camera server registration error [01]

Message	Could not find the camera server. Make sure: <ul style="list-style-type: none">• the network address is correct.• DNS setting is correct.
Cause	The specified network address could not be found.
Action to be taken	<ul style="list-style-type: none">• Enter the network address correctly.• Set the DNS correctly.

(2) Network connection error (time out): camera server registration error [02]

Message	Could not find the camera server. Make sure: <ul style="list-style-type: none">• the network address is correct.• the camera server is turned on.• the camera server is connected properly to your network.
Cause	The connection to the specified network address timed out.
Action to be taken	<ul style="list-style-type: none">• Enter the network address correctly.• Turn on power to the camera server.• Connect the camera server to the network correctly.• Extend the timeout time set in the Option.

(3) Failed to retrieve camera server description: Camera server registration error [03]

Message	Could not find the camera server. Make sure: <ul style="list-style-type: none">• the camera server is compatible with WebView Livescope MV Ver.2.1.• the network address is correct.• the camera server is connected properly to your network.
Cause	Camera server description could not be retrieved for reasons such as the connection target was not a camera server.
Action to be taken	<ul style="list-style-type: none">• Connect to the camera server that is compatible with WebView Livescope MV Ver. 2.1.• Enter the network address correctly.• Connect the camera server to the network correctly.

(4) Connected to a camera server with old version of firmware: camera server registration error [04]

Message	Could not retrieve a description from the camera server. Make sure: <ul style="list-style-type: none">• the camera server is compatible with the WebView Livescope MV Ver.2.1.• Firmware of VB101 is version 3.0 or later.
Cause	The version of the firmware in the camera server is old.
Action to be taken	<ul style="list-style-type: none">• Connect to a camera server that is compatible with WebView Livescope MV Ver. 2.1.• Upgrade the VB101 firmware to 3.0 or later.

(5) VIEW-Windows mode: Camera server registration error [05]

Message	The camera server is not set up properly. Make sure: <ul style="list-style-type: none">• [Target Application] of [Basic Settings] is set to [WebView Livescope].
Cause	The camera server application mode is set to VIEW-Windows mode.
Action to be taken	Set the camera server application mode to WebView Livescope mode.

(6) Access restrictions at the camera server: Camera server registration error [06]

Message	Could not retrieve a description from the camera server. Make sure: <ul style="list-style-type: none">• your computer is authorized to access the camera server.• the network address is correct.
Cause	Access restrictions have been set at the camera server.
Action to be taken	Make sure access to the camera server is authorized and that the network address has been correctly entered.

(7) Other connector error: Camera registration error [07]

Message	Could not retrieve a description from the camera server.
Cause	A camera registration error other than errors [1] - [6]. A malfunction may have occurred on the network.
Action to be taken	Consult the network administrator.

(8) Administrator account authentication failed

Message	Administrator ID or password is invalid.
Cause	Authentication failed due to invalid administrator ID or password.
Action to be taken	Enter the correct administrator ID or password.

(9) If offline

Message	Failed to retrieve the description of ***. Properties will be displayed offline. (*** = camera server name)
Cause	Camera server description could not be retrieved, because connection to the network was cut or power to the camera server was off.
Action to be taken	<ul style="list-style-type: none">• Reconnect to the network.• Turn on power to the camera server.

(10) If the saved administrator ID or password is invalid

Message	Administrator authentication for ***s failed. Click Administrator Account in Network tab, then re-enter the correct administrator ID and the password. (*** = camera server name)
Cause	Administrator authentication while connecting to the camera server failed when the properties were being opened.
Action to be taken	Click the Administration Account button in the Network tab and re-enter the correct administrator ID and password.

(11) When camera information cannot be retrieved due to power cut, etc.

Message	Camera information could not be retrieved. Preset-setting is now unavailable.
Cause	Camera information could not be retrieved, because power to the camera was turned off or other reason.
Action to be taken	Turn on power to the camera.

(12) When camera information cannot be retrieved due to power cut, etc.

Message	Camera information could not be retrieved. Auto Preset Tour setting is now unavailable.
Cause	Camera information could not be retrieved, because power to the camera was turned off or other reason.
Action to be taken	Turn on power to the camera.

(13) Failed to write onto export target

Message	Failed to export MV data.
Cause	When the data was exported, the disk was write-protected or full.
Action to be taken	<ul style="list-style-type: none"> • Release write protection on the disk. • Secure sufficient space on the disk.

(14) Background image failed to load

Message	Cannot read this file. Its format is not supported.
Cause	The specified background image is in a format other than BMP or JPG.
Action to be taken	Specify a BMP or JPG file for the background image.

(15) When the background image view size has reached the maximum

Message	This file exceeds the maximum view size (1280 × 1024). Specify another file.
Cause	The specified background image size is larger than the maximum view size of 1280 x 1024.
Action to be taken	For the background image, specify a file with a view size smaller than 1280 x 1024.

MV Station Error Messages

(16) Could not get in camera control right queue

Message	Could not get in camera control right queue.
Cause	Another client with camera control privileges of a higher level than yourself is connected to the camera server.
Action to be taken	Ask the other client to release the camera control privileges.

(17) When switching to appropriate camera failed during assignment

Message	Could not switch camera.
Cause	An attempt was made to assigned a camera that is different from the camera being viewed by a client with control rights of a higher level than yourself.
Action to be taken	Ask the other client to release the camera control privileges.

(18) Power to the camera is turned off or there is a malfunction

Message	Camera is switched off or faulty.
Cause	Power to the camera is off, or a cable is not properly connected.
Action to be taken	<ul style="list-style-type: none">• Turn on power to the camera.• Connect the cable.

(19) Incorrect address

Message	Could not connect to the camera server.
Cause	Network connection was cut, power to the camera server was cut, or the proxy settings are not correct.
Action to be taken	<ul style="list-style-type: none">• Re-connect to the network.• Turn on power to the camera server.• Redo the proxy settings.

(20) Access restrictions at the camera server

Message	Your computer is not authorized to access the camera server.
Cause	Access restrictions have been set at the camera server.
Action to be taken	Release the access restrictions.

(21) Maximum allowed number of camera server connections has been exceeded

Message	Number of accesses to the camera server has reached to the maximum.
Cause	The number of access to the camera server has been reached.
Action to be taken	Wait until the number of access decreases.

(22) Incorrect administrator ID or password (MV level only)

Message	Administrator ID or password of the camera server is invalid.
Cause	The administrator ID or password at the camera server has been changed.
Action to be taken	Change the administrator ID or password at the camera server or at MV Manager.

(23) Connection cut at camera server

Message	Disconnected.
Cause	Connection with the network was cut, or power to the camera server was cut.
Action to be taken	<ul style="list-style-type: none"> • Re-connect to the network. • Turn on power to the camera server.

(24) If browse target is not valid

Message	MV Data cannot be found.
Cause	MV data has not been placed in the specified folder.
Action to be taken	Specify the correct folder, or export the data.

(25) Incorrect password

Message	The password is invalid.
Cause	The wrong password was entered.
Action to be taken	Enter the correct password.

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