

Canon

Viewer Software

User's Manual

Ver. 3.6

ENG

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Introduction

This manual describes how to use the WebView Livescope Ver. 3.6 Viewer Software. There are two types of viewers, Viewer for Java and the Viewer for PC, and the video sender can use one or the other as required. Both types provide the same basic functions for viewing videos, but differ in terms of other features and functions. The preparations for using the two viewer types and the required operating environment also differ depending on the computer hardware and software used to run the viewer. Read this manual carefully before you use the viewer to ensure that you make the best possible use of this product.

Store this manual in a safe place after you finish reading it.

The latest information on the viewer is available at the following URL.

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

Important

- ① Copyright © 2005 by Canon, Inc. All rights reserved. The unauthorized transfer of all or any part of the contents of this manual is forbidden.
- ② The contents of this manual are subject to change without notice.
- ③ Every effort has been made to ensure that content of this manual is free from errors. If you encounter any errors, omissions or apparent inaccuracies, contact the manufacturer.
- ④ Notwithstanding the above, Canon accepts no liability for any results arising from the operation of this product.

On Copyrights

Videos or images taken or recorded with the viewer may not be utilized or published, without consent of copyright holders, if any, except in such a way as permitted for personal use under relevant copyright law.

Usage Notice of Audio

1. Audio stream may be interrupted according to the performance of your PC and network environment.
2. If you use a proxy server, the audio may be interrupted.
3. If you use a PC on which anti-virus software is installed, the audio may be delayed or the audio stream may be temporarily interrupted.

Trademark Information

Canon and Canon logo are registered trademarks of Canon Inc.

Microsoft Windows and Microsoft Internet Explorer are registered trademarks of the Microsoft Corporation in the United States and other countries.

Netscape is a trademark of Netscape Communications Corporation.

Java and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.

All other company or product names used in this document are trademarks or registered trademarks of their respective holders.

* In this document, "Microsoft Windows" is abbreviated as simply "Windows".

Conventions



Note

Indicates important notes or restrictions that must be observed when using this product. Always read these notes.



Tip

Indicates additional information or explanations for a procedure. You should read these items.

WebView Livescope Overview

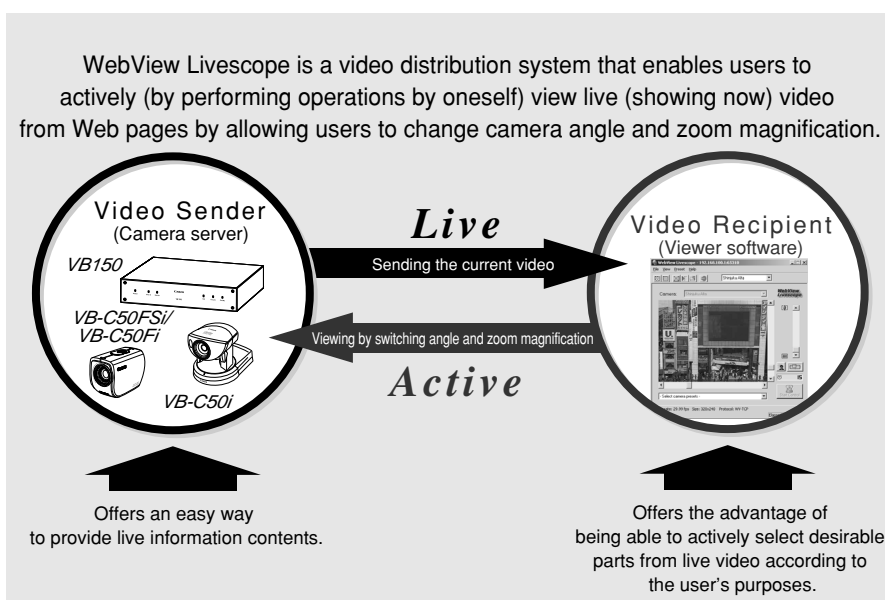
- WebView Livescope is the system that allows camera control and live video distribution from a remote location.
- The system is configured for a camera server and viewer software. The camera server distributes live video taken by the video camera to the Internet or an Intranet. The viewer software can display the video and remotely control the camera.
- The WebView Livescope system can be used in a wide range of applications such as distributing live video from a Web site and monitoring.

The following types of **camera servers** are available:

- Network Camera Server VB150
- Network Camera VB-C50i/VB-C50iR
- Network Camera VB-C50FSi
- Network Camera VB-C50Fi

The following types of **Viewer Software** are available:

- Viewer for Java (This manual: provided free of charge with camera server product)
- Viewer for PC (This manual: provided free of charge with camera server product)
- Network Video Recorder VK-64 (Sold separately)
- WebView Livescope MV Ver. 2.1/LE (Sold separately)



- The names of the viewers have been changed as follows:

Old Name	New Name
Helper Viewer	Viewer for PC
Java Viewer	Viewer for Java

Viewer Overview

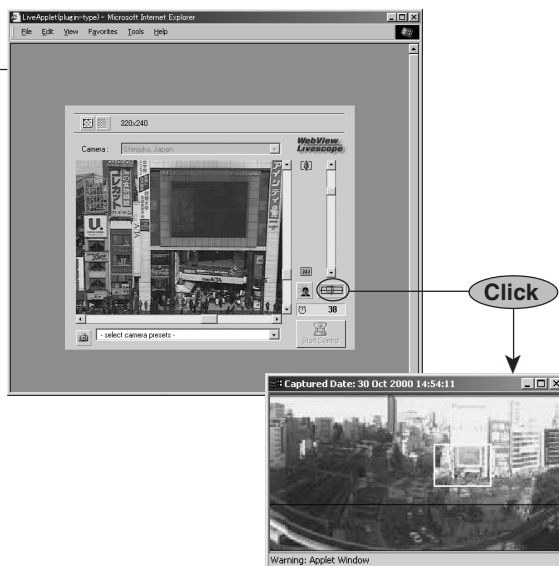
There are two types of WebView Livescope Viewer Software: the Viewer for Java and the Viewer for PC.

Viewer for Java

This is a viewer written using Java. This viewer allows the camera server's videos to be viewed on any computer with a Web browser that runs Java, regardless of the platform. Because the Java applet is downloaded when the viewer starts up, the first video takes some time to appear. The Viewer for Java provides two types of viewers: LiveApplet containing video display and camera control functions, and Glimpse containing a video display function.

LiveApplet

Video display functions
Camera control functions



Panorama picture

Glimpse

Video display functions



Note

- To use the Viewer for Java, you need to install Java VM beforehand. See the web site for more details.

WebView Product web site

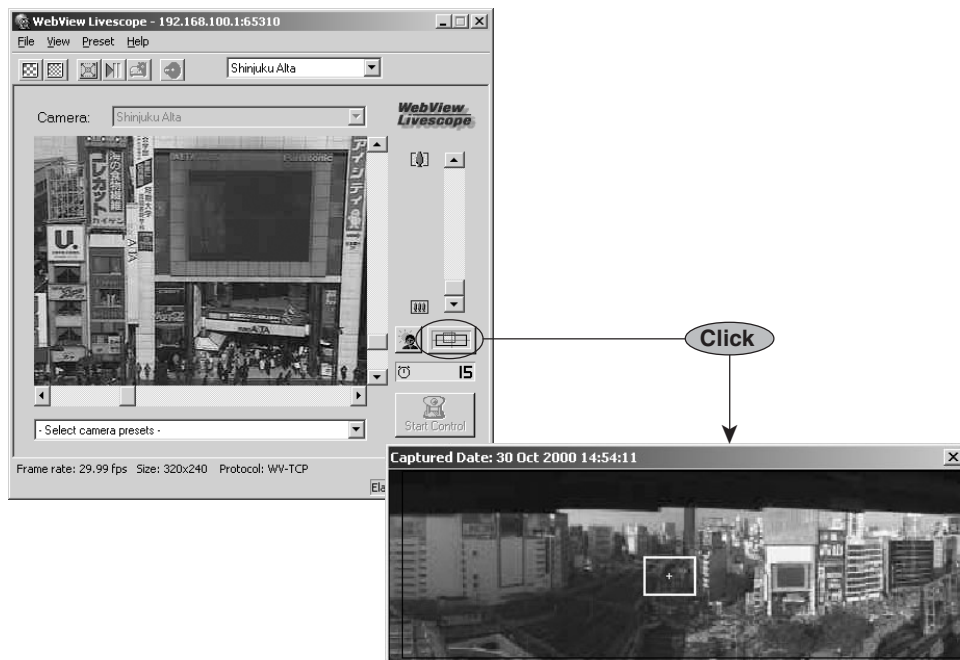
<http://www.canon.com/webview>

- Panorama pictures must be registered in advance at the camera server.

* Panorama pictures are not available with the VB-C50FSi/VB-C50Fi.

Viewer for PC

This is a viewer that runs as an application. This viewer provides video display and camera control functions and appears in a separate window at startup. While the Viewer for PC has to be pre-installed, it offers the advantage of displaying the first video quickly. At present, only a Windows version of this viewer is available.



Panorama picture



Note

- The Viewer for PC is provided on the CD-ROMs supplied with the Network Camera Server VB150, the Network Camera VB-C50i/VB-C50iR, VB-C50FSi and VB-C50Fi packages. The viewer can also be downloaded free of charge from the following web site.

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

- The Viewer for PC needs to be pre-installed on your computer. (→ p.26)
- Panorama pictures must be registered in advance at the camera server.
* Panorama pictures are not available with the VB-C50FSi/VB-C50Fi.
- When playing back audio, please read carefully "Usage Notice of Audio" (→ P.4).
* Audio input/output is not available with the VB-C50Fi.



Tip

- Because the Viewer for Java is downloaded from the camera server every time you access and displays video on the viewer screen, it starts up slower than the Viewer for PC that is pre-installed on a PC.
- Use the Viewer for Java when you access the camera server and view video for the first time. However, we recommend you to install and use the Viewer for PC if you view video frequently.

Operating Environment

For the latest information, please refer to our WebView Product web page:
<http://www.canon.com/webview>

Viewer for Java Ver. 3.6

Operating System/ Web Browser	Windows 2000 (SP4)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows XP (SP1a)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows XP (SP2)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows Server 2003 Standard Edition/Microsoft Internet Explorer 6.0, Netscape 7.1, 7.2 Windows Server 2003 Standard Edition (SP1)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2
Java VM	MSVM Release 5.0.0.3810 (Java VM provided by Microsoft) Java Plug-in 1.4.2 (Java VM provided by Sun Microsystems)

* Java VM must be installed beforehand. If the Java VM provided by Microsoft has not been installed, please access Sun Microsystems Website to download the Java VM provided by Sun Microsystems.

* Operation is unstable when used with an OS or Web browser other than those noted above.

Viewer for PC Ver. 3.6

Operating System/ Web Browser	Windows 2000 (SP4)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows XP (SP1a)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows XP (SP2)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows Server 2003 Standard Edition/Microsoft Internet Explorer 6.0, Netscape 7.1, 7.2 Windows Server 2003 Standard Edition (SP1)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2
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* Must be installed in advance from the CD-ROM supplied with the camera server. (→ p.26)

Chapter 1

Viewer for Java

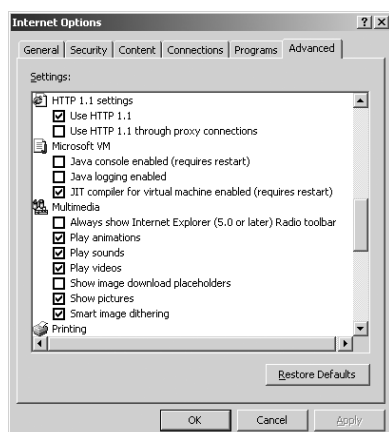
This chapter describes the preparations required for using the Viewer for Java and explains how to use the viewer.

Preparations for Using the Viewer for Java

The Viewer for Java is automatically downloaded from the camera server. There is no need to install it in advance. However, depending on the type of Web browser you are using and your software settings, you must change your Web browser settings.

Using Internet Explorer

Internet Explorer has a setting that specifies whether the use of Java is permitted. From the “Tools” menu, select “Internet Options” and click the “Advanced” tab. Then set “JIT compiler for virtual machine enabled” as the “Microsoft VM” setting.

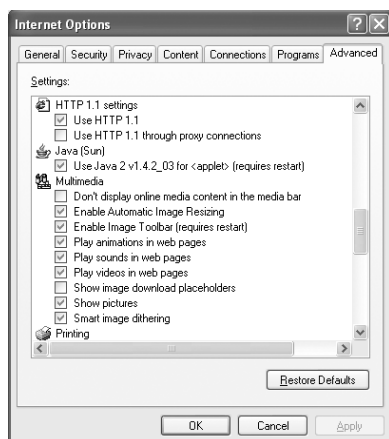


* For Internet Explorer 6.0

In Windows XP, Java VM may not be installed. If this is the case, please install it. See the web site for more details.

WebView Product web site <http://www.canon.com/webview>

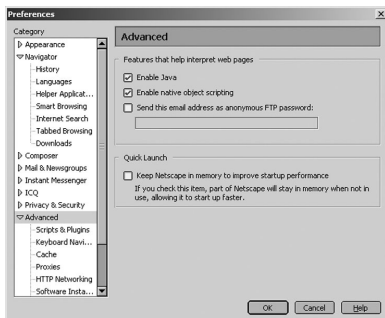
Detailed settings below similar to the ones are displayed after settings.



* For Internet Explorer 6.0

Using Netscape

Netscape also has a setting that specifies whether the use of Java is permitted. Select “Preferences” from the “Edit” menu, click “Advanced” and then click in the “Enable Java” checkbox.



* For Netscape 7.1



Note

The settings for the Web browser vary depending on the version used. Refer to the settings given here and check your browser version.



Tip

When You are Connected to a LAN

If the camera server is used via an Intranet and you specify the Web browser proxy setting manually, videos are distributed via the proxy. This can result in a slower frame rate and proxy server overload.

Use the procedure shown below to set up a “No proxy” connection. Note that if you are accessing a camera server that is located outside a firewall on the internet, registration is not required for the camera server.

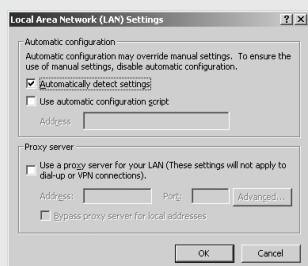
Setup Examples

Using Internet Explorer

Specify either “Automatically detect settings”, “Use automatic configuration script” or “Use a proxy server for your LAN” below.

● Automatically detect settings

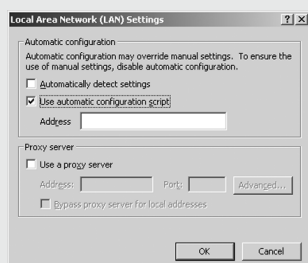
- ① From the “Tools” menu, select “Internet Options” and click the “Connections” tab.
- ② Click “LAN settings” to open the Local Area Network (LAN) Settings dialog box.
- ③ Tick “Automatically detect settings” in “Automatic configuration”.
- ④ Click “OK” to close the Local Area Network (LAN) Settings dialog box and the Internet Options dialog box. Proxy data is automatically detected when you specify this setting.



* For Internet Explorer 6.0

● Use automatic configuration script

- ① From the “Tools” menu, select “Internet Options” and click the “Connections” tab.
- ② Click “LAN settings” to open the Local Area Network (LAN) Settings dialog box.
- ③ Tick “Use automatic configuration script” in “Automatic configuration” and enter the URL (e.g. `http://192.168.100.10/proxy.pac`) of the Settings file.
- ④ Click “OK” to close the Local Area Network (LAN) Settings dialog box and the Internet Options dialog box.



* For Internet Explorer 6.0

● Use a proxy server for your LAN

- ① From the “Tools” menu, select “Internet Options” and click the “Connections” tab.
- ② Click “LAN settings” to open the Local Area Network (LAN) Settings dialog box.
- ③ Tick “Use a proxy server for your LAN” in “Proxy server” and click “Advanced”.
- ④ In the “Exceptions” field, enter “Camera server IP address: HTTP conversion server service port”. If there are multiple settings, use a semicolon (;) as the separator (e.g. 192.168.100.1:80;192.168.0.20:80).
- ⑤ Click “OK” to close the Proxy Settings dialog box, Local Area Network (LAN) Settings dialog box and the Internet Options dialog box.



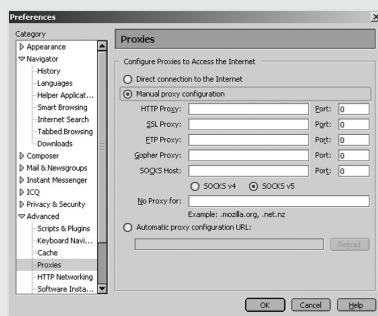
* For Internet Explorer 6.0

Using Netscape

Specify either “Manual proxy configuration” or “Automatic proxy configuration URL” below.

● Automatic proxy configuration URL

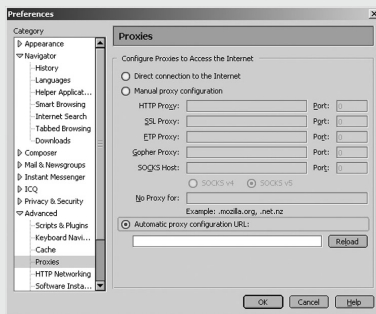
- ① From the “Edit” menu, select “Preferences”.
- ② Select “Proxies” in “Advanced” and select “Automatic proxy configuration URL”.
- ③ In the “Automatic proxy configuration URL” field, enter the URL (e.g. http://192.168.100.10/proxy.pac) of the Settings file.
- ④ Click “OK” to close the Preferences dialog box.



* For Netscape 7.1

● Manual proxy configuration

- ① From the “Edit” menu, select “Preferences”.
- ② Select “Proxies” in “Advanced” and select “Manual proxy configuration”.
- ③ In the “No Proxy for” field, enter “Camera server IP address:HTTP conversion server service port”. If there are multiple settings, use a semicolon (;) as the separator (e.g. 192.168.100.1:80;192.168.0.20:80).
- ④ Click “OK” to close the Preferences dialog box.

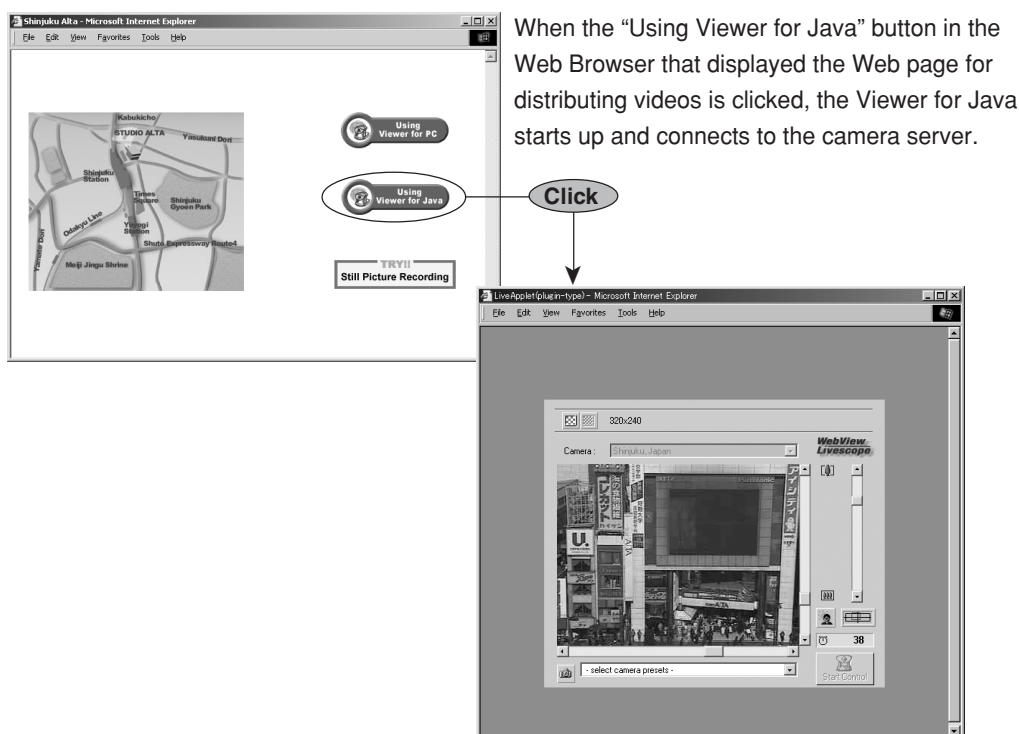


* For Netscape 7.1

Starting Up the Viewer for Java

The Viewer for Java is started up from the Web browser that displayed the Web page for distributing videos.

To create a Web page for distributing videos, refer to the user's manual of the camera server you are using.

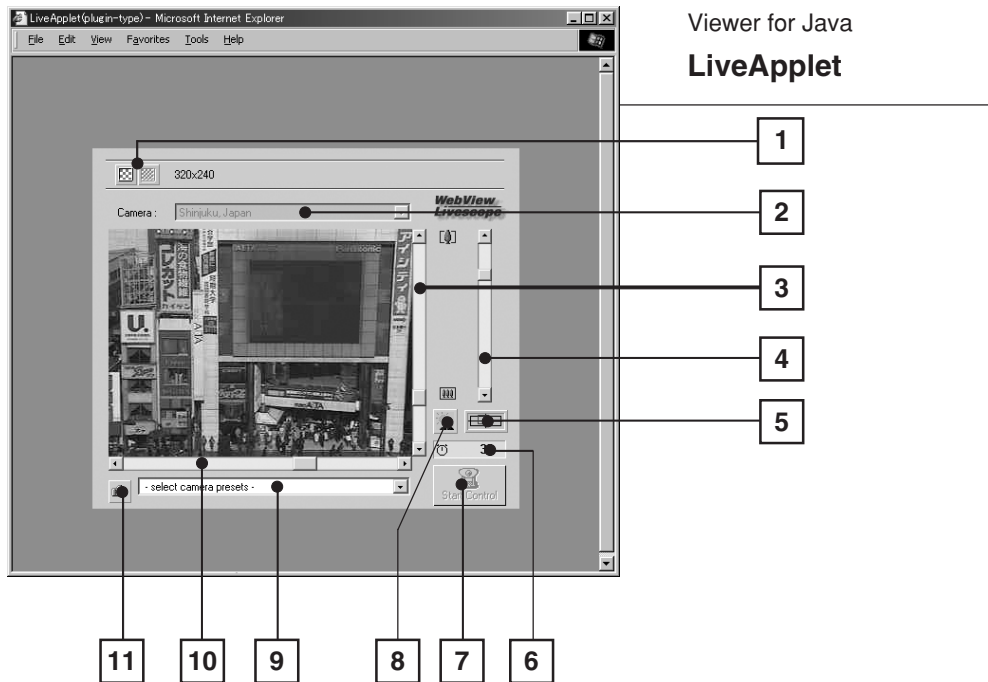


Using the Viewer for Java

“LiveApplet” Screen

There are two types of Viewer for Java (→ p.6). The following is a description of “LiveApplet”. “LiveApplet” is a viewer with a GUI that allows the user to change the camera angle, zoom ratio and backlight adjustment settings.

The functions of the GUI displayed on the Web browser are briefly described below.



- 1** Video Source Size Change Buttons
The right-hand button makes the displayed video source one level smoother, while the left-hand button makes it one level coarser. Making the image coarser increases the frame rate, while making it smoother improves the video quality.
* Depending on the camera server, the video source size change buttons are not displayed.
- 2** Camera Selection Box
When multiple cameras are connected to the camera server, this box can be used to select the camera.
- 3** Tilt Scroll Bar
Used to change the camera tilt angle (up and down movement).
* Not displayed on the VB-C50FSi/VB-C50Fi.
- 4** Zoom Scroll Bar
Used to change the zoom ratio.
Moving the button up zooms in (telephoto) and moving it down zooms out (wide-angle).
- 5** Panorama View Button
Displays the pop-up panorama window. Panorama pictures must be saved at the camera server. Panorama pictures will not be displayed if not saved.
* Not displayed on the VB-C50FSi/VB-C50Fi.

- 6** Camera Control Status Window
Used to display camera control information ("Camera controllable", "Camera not controllable", "Awaiting turn", "Remaining camera control time").
- 7** Start Control Button
Used to acquire camera control privileges.
- 8** Backlight Adjustment Button
Compensates for backlighting. Useful when the video appears dark due to backlighting. Click the button again to cancel.
- 9** Preset Selection Box
Allows you to control the camera by selecting preset camera positions registered beforehand on the camera server.
- 10** Pan Scroll Bar
Used to change the camera pan angle (left and right movement).
* Not displayed on the VB-C50FSi/VB-C50Fi.
- 11** Snapshot Button
Shows a snapshot of the currently displayed video frame in a separate window. The snapshot image can then be printed or saved.

Panorama Window * Not available with the VB-C50FSi/VB-C50Fi.

You can control the camera by clicking on the panorama window or dragging the yellow frame on the panorama window.



The black frame indicates the range of movement for the camera center. The camera center cannot be moved outside this frame.

The blue frame indicates the area currently being photographed by the camera. When you are granted control privileges, this changes to a yellow frame. You can control the camera pan and tilt by dragging this frame and control the camera zoom by resizing this frame.



Note

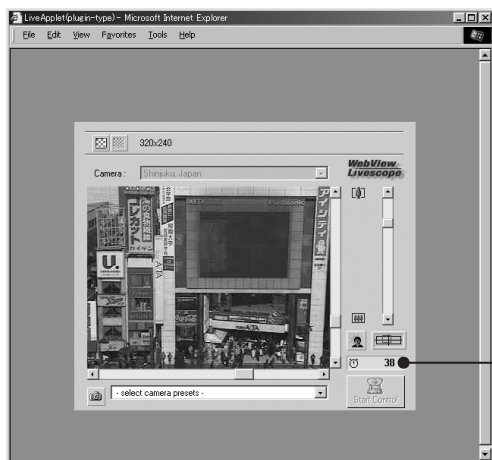
The size of the panorama window may differ from that shown above if field of view restrictions have been specified on the camera server.

Starting Camera Control

Although multiple clients can simultaneously connect to the camera server, multiple clients cannot simultaneously control the camera. Consequently, “control privileges” has been introduced by which only the client who currently holds the control privileges can control the camera. Backlight adjustment and presets can also only be used when you have control privileges.

Procedure

Click the [Start Control] button to acquire control privileges.



Camera Control Status Window
Shows the camera control status.

■ Camera Control Status Displays

The display changes depending on the camera control status.



* Camera is not controlled.



* You have clicked the [Start Control] button and the camera server is being contacted. This display does not appear if the camera server responds immediately.

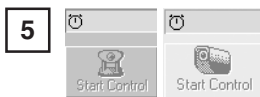


* Awaiting control privilege reservation. The number beside the person icon shows the estimated time until control privileges are granted. However, you may be granted control privileges before this number reaches “0” because other users may cancel camera control or withdraw from the queue.

* For the VB-C50FSi/VB-C50Fi.



* You have been granted control privileges. The number beside the clock icon is your period of exclusive control.



* You can retain control privileges even though your period of exclusive control has expired. This is because there are no camera control requests from other clients.



* For some reason, you have been disconnected from the camera control server, you could not connect to the camera control server at startup, or your connection was not permitted. The status display panel turns red.

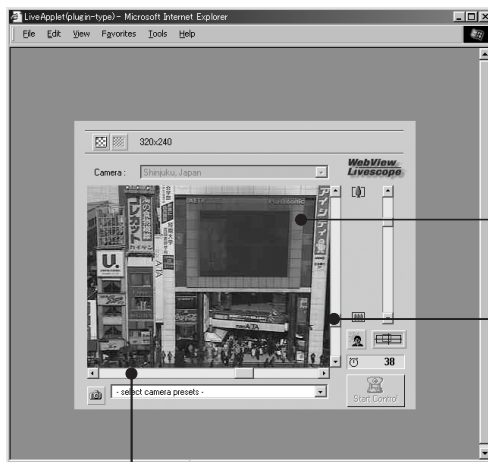
Controlling the Camera

Once you have been granted camera control privileges, you have complete control over the camera angle, the zoom ratio and the backlight adjustment setting.

Changing the Camera Angle * Not available with the VB-C50FSi/VB-C50Fi.

Procedure

Move the button on the Pan Scroll Bar or Tilt Scroll Bar.



By clicking a point on the video, you can move the center of the camera to that point.

The camera angle changes to match the position of the scroll bar buttons.

Tilt Scroll Bar

This scroll bar changes the camera's tilt (up or down).

Pan Scroll Bar

■ Changing the Camera Angle on the Panorama Window * Not available with the VB-C50FSi/VB-C50Fi.



This scroll bar changes the camera's pan (left or right).

By clicking

When you click on the panorama window, the camera pans and tilts so that the place you clicked moves to the center.

By dragging

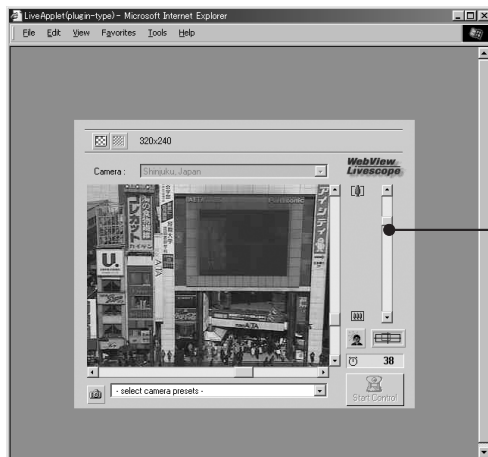
When you drag inside the yellow frame on the panorama window to another position, the camera pans and tilts to shoot the area in the frame.

Changing the Camera Zoom Ratio

Procedure

Move the Zoom Scroll Bar button up or down.

The camera zooms in or out to match the position of the zoom bar button.



Zoom Scroll Bar

Move the button up to zoom in (telephoto).

Move the button down to zoom out (wide-angle).

■ Changing the Zoom Ratio on the Panorama Window * Not available with the VB-C50FSi/ VB-C50Fi.



By dragging

When you drag the edge of yellow frame on the panorama window to change the frame size, the zoom ratio changes accordingly.



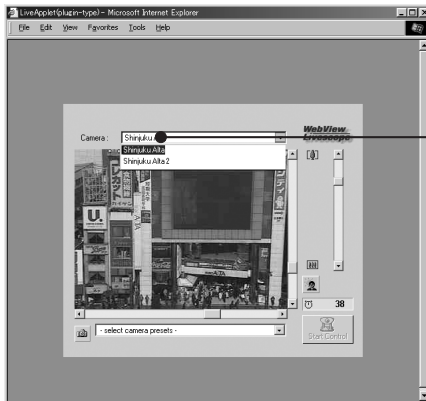
Tip

If you click outside the frame and drag the mouse while holding the button down, a blue frame is drawn. When you release the mouse button, the blue frame turns yellow and the camera pans, tilts and zooms to shoot the area in the new frame.

Selecting the Camera

Procedure

When multiple cameras are connected to the camera server, you can switch between cameras. Click on the Camera Selection Box to view the list of cameras. When you select a camera from the list of names, the display changes to show the video from that camera.



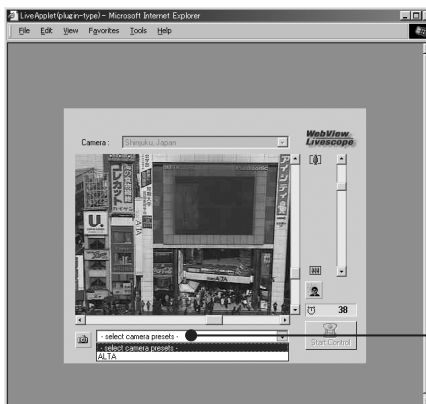
Camera Selection Box

Using Presets

Procedure

You can control the camera by selecting preset camera positions (presets) registered on the camera server.

Click on the Preset Selection Box to view the list of preset positions. When you select a preset position from the list, the display changes to show the video from that position.



Preset Selection Box



Note

The presets and camera selection options displayed are those set on the camera server. If no presets or additional cameras are registered on the camera server, no selection options are shown.

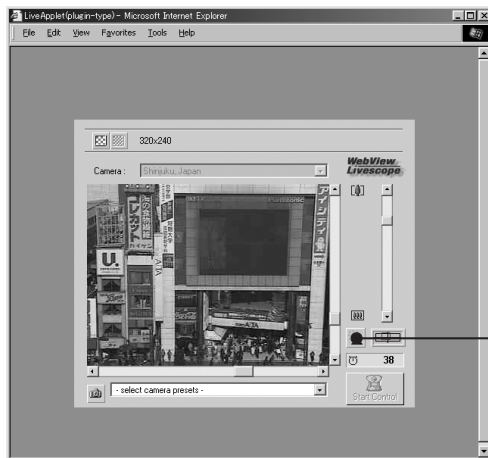
Adjusting Backlight

Procedure

Backlight adjustment is useful when the video is dark due to backlighting.

When you click the [Backlight Adjustment] button, video darkened by backlighting becomes brighter.

Click the button again to cancel.

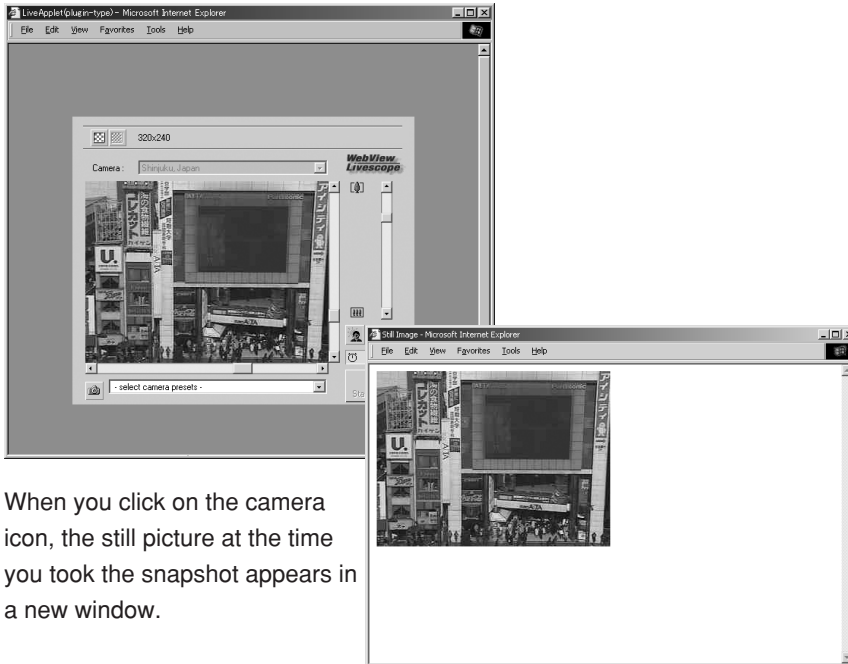


**Backlight Adjustment
Button**

Taking a Snapshot of the Video

Procedure

This function allows you to take a snapshot (still picture) of a particular live video. When you take a snapshot, it appears in a new browser window.



When you click on the camera icon, the still picture at the time you took the snapshot appears in a new window.



Note

- Because a new still picture is captured when you click the camera icon, the still picture displayed may be fractionally later than the moment you clicked the icon.
- Under copyright law, video or still pictures photographed by the viewer cannot be used for any purpose other than personal enjoyment without prior permission from the copyright holder.
- For Windows XP SP2 and Windows Server 2003 SP1 users, you may not be able to use the camera icon to take snapshots. If so, hold down the Ctrl key on the keyboard and click the camera icon or follow the instructions on the displayed Information Bar to disable the pop-up blocker.



Tip

Printing and Saving a Still Picture

The Viewer for Java does not have functions for printing or saving the video displayed.

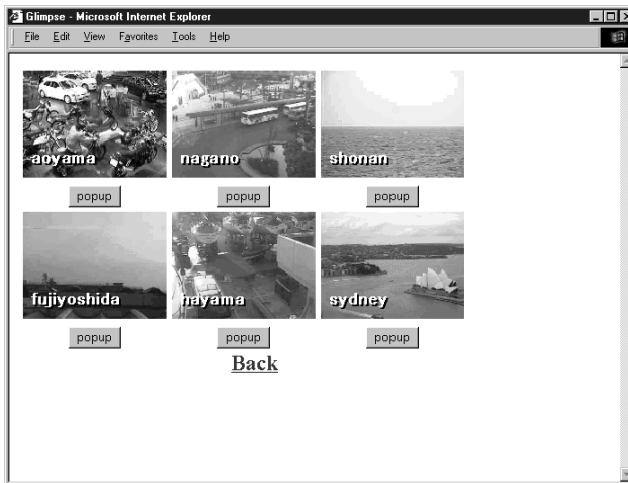
However, you can use the Snapshot function to save and print video as a still picture.

- ① Take a snapshot of the video you want to print or save.
- ② Use the Save or Print function in your Web browser to save or print the still picture.

“Glimpse” Screen

There are two types of Viewer for Java (→ p.6). The following is a description of “Glimpse”. The “Glimpse” viewer is a light-weight Viewer for Java. It has a short download time as it has no camera control functions and only displays video images.

This viewer is useful for viewing videos from multiple sites, as shown below.



Viewer for Java
Glimpse

The Glimpse viewer is used only for viewing video; it does not include camera control functions.

Chapter 2

Viewer for PC

This chapter describes the preparations required for using the Viewer for PC and explains how to use the viewer.

Preparations for Using the Viewer for PC

Installing the Viewer for PC

The Viewer for PC must be pre-installed on your PC.

For details on installing, please refer to the user's manual of the camera server you are using.



Note

- Microsoft Internet Explorer 6.0 must be installed to run the Viewer for PC. Check that it is already installed before installing the Viewer for PC (→ p.8).
- If Ver. 3.5 or earlier viewer is already installed, when you try to install the new version, a dialog box appears asking you if you want to uninstall the old version. If you want to install the new version, click Yes, and the new version will be installed after the installer uninstalls the currently installed Viewer.
- It cannot be installed in a machine in which WebView Livescope MV Ver. 1.0 has been installed.



Tip

Follow the steps below if you are downloading from the web site and installing.

- ① Download the install file from the web site.
- ② Double-click “wvh361.exe”.
- ③ Follow the instructions on the screen and install. When the setup completion screen appears, click [Quit].
A short-cut icon is created on the desktop.

Using Browsers Other Than the Recommended Products

To launch and run the Viewer for PC from a Web browser, the recommended browsers are:

Operating System/ Web Browser	Windows 2000 (SP4)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows XP (SP1a)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows XP (SP2)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2 Windows Server 2003 Standard Edition/Microsoft Internet Explorer 6.0, Netscape 7.1, 7.2 Windows Server 2003 Standard Edition (SP1)/Microsoft Internet Explorer 6.0 (SP1), Netscape 7.1, 7.2
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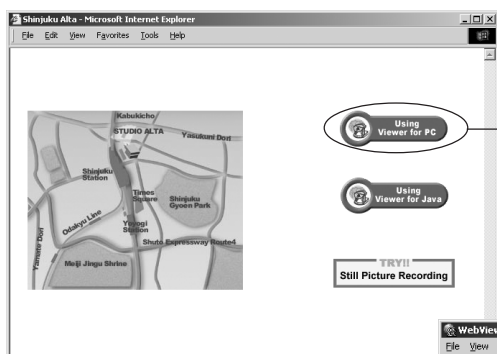
The use of any browser other than these may require some setup measures. If you cannot launch the viewer after installation, launch the Web browser and register the application. For information on registering application, refer to the documentation provided with your browser.

MIME type	x-webview-h
Extension	wvh
Application	MonView.exe The application "VBToolsInstall.exe" is installed into the folder specified for the installation. <u>C:\Program Files\Canon\WebView\Viewer\3.6</u> (default installation folder)

Starting Up the Viewer for PC

The Viewer for PC can be started up in two ways: From the Web browser that displayed the Web site for distributing videos, or starting it up independently. Normally it is started up from the Web browser. To create a Web page for distributing videos, refer to the User's Manual provided on the CD-ROM enclosed with the camera server package.

Starting Up from the Web Browser



Click the "Using Viewer for PC" or other buttons on the Web browser that displayed the Web site for distributing videos. The Viewer for PC starts up and connects to the camera server.



Starting Up Independently



Double-click



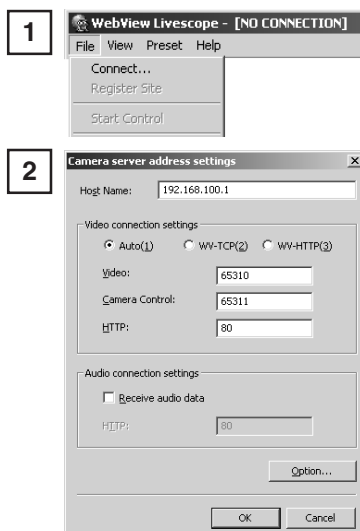
Double-click the icon created on the Desktop. It can also be started up by choosing it from the Start menu: Start | Programs | WebView Livescope | Viewer for PC. No connection to the camera server (→ p.29) is made when the Viewer for PC is started up independently.

Connecting to the Camera Server

When you use the Viewer for PC to connect to the camera server and monitor, if the Viewer for PC was started up from the Web browser, it automatically connects to the camera server. But if the Viewer for PC was started up independently, you need to specify the camera server or select a registered camera server. You can also change the connection target to another camera server while you are still connected to one camera server, or start up multiple Viewer for PCs and connect each one to a different camera server.

Specifying a Connection Target and Connecting

Procedure



Choose Connect from the File menu.

The “Camera server address settings” dialog box appears. Enter each item and click OK to make a connection to the camera server.

■ Host Name

Specify the IP address of the camera server

■ Video connection settings

[Auto] [WV-TCP] [WV-HTTP]

Select whether to connect to the camera server using auto selection, or to connect using the WebView-TCP or WebView-HTTP protocol. When connecting with auto selection, the viewer automatically selects the optimum protocol and connects to the camera server. If you are connecting to the camera server from inside a firewall, select WebView-HTTP (→ pp.44, 45).

[Video] [Camera Control] [HTTP]

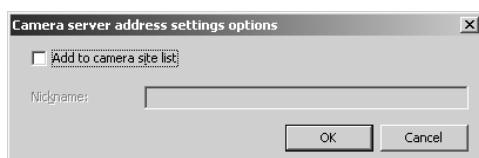
Specify the port numbers of the camera server. These are the values specified on the camera server. They can normally be used with the default settings.

■ Audio connection

[Receive audio data]

Select to receive audio when audio has been transmitted. (For cameras which have an audio function.)

Click “Option” to open the “Camera server address settings options” dialog box. Here you can register sites. Click “OK” to return to the “Camera server address settings” dialog box.



■ Add to camera site list

When this is ticked, camera server information that was entered is registered in the viewer, and you can view video by simply selecting it from the selection box. Once ticked, in the “Nickname” field enter the name with which you want to register.

Selecting a Registered Camera Server and Connecting

Procedure

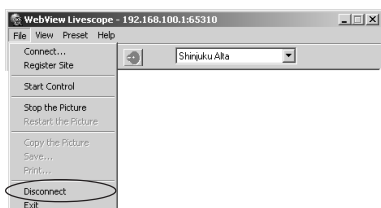


Select the connection target from the site selection box. The camera servers displayed here are sites that were registered by selecting “Add to camera site list” when a connection was made by specifying a connection target, or registered using the “Register Connected Site button (→ p.39)”.

See p.47 for details on registering or changing a server.

Disconnecting

Procedure



Choose Disconnect from the File menu, or close the Viewer window to exit.



Note

If you connect to a site containing user access restrictions, you will be asked to enter a user name and a password. Enter the correct user name and password to complete the connection. (Refer to the User’s Manual of the camera server.)

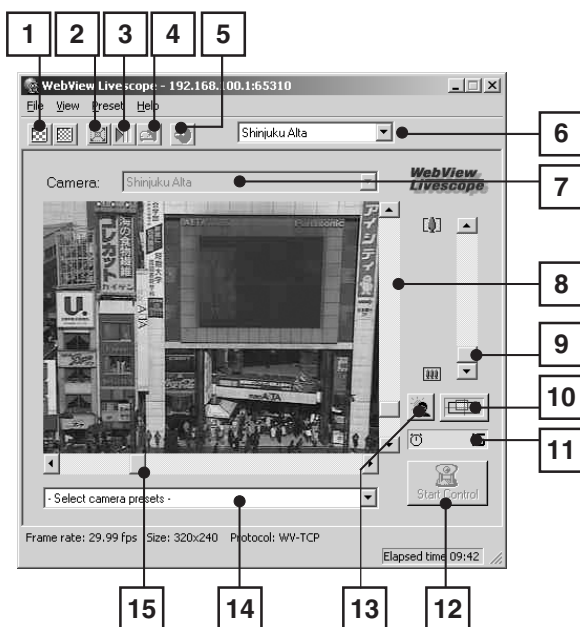


Using the Viewer for PC

The Viewer for PC provides a GUI that allows you to change the camera angle, zoom ratio and backlight adjustment settings.

“Viewer for PC” Screen

The functions of the GUI displayed when the Viewer for PC starts up are briefly described below.



- 1** Video Source Size Change Button
The right-hand button makes the displayed video source one level smoother, while the left-hand button makes it one level coarser. Making the image coarser increases the frame rate, while making it smoother improves the video quality.
- 2** Full Screen Mode Button
Displays the video at full-screen size. Press the [Esc] key to return to the original video size.
- 3** Pause/Resume Button
Pauses video during play, or starts play if currently stopped.
- 4** Register Connected Site Button
Lets you register a camera site during connection.
- 5** Audio Settings Button
Lets you set audio functions.
* Only displayed if the camera is connected to a camera server that supports the Audio function.
- 6** Site Selection Box
Lets you connect to a registered camera site by selecting it here.
- 7** Camera Selection Box
Can be used to select the camera when multiple cameras are connected to the camera server.
- 8** Tilt Scroll Bar
Used to change the camera tilt angle (up and down movement).
* Not available with the VB-C50FSi/VB-C50Fi

- 9** Zoom Scroll Bar

Used to change the zoom ratio.

Moving the button up zooms in (telephoto) and moving it down zooms out (wide-angle).
- 10** Panorama View Button

Displays the pop-up panorama window. Panorama pictures must be saved at the camera server. Panorama pictures will not be displayed if not saved.

* Not displayed on the VB-C50FSi/VB-C50Fi.
- 11** Camera Control Status Window

Used to display camera control information ("Camera controllable", "Camera not controllable", "Awaiting turn", "Remaining camera control time").
- 12** Start Control Button

Used to acquire camera control privileges.
- 13** Backlight Adjustment Button

Compensates for backlighting. Useful when the video appears dark due to backlighting. Click the button again to cancel.
- 14** Preset Selection Box

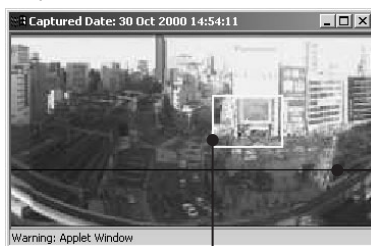
Allows you to control the camera by selecting preset camera positions registered beforehand on the camera server.
- 15** Pan Scroll Bar

Used to change the camera pan angle (left and right movement).

* Not available with the VB-C50FSi/VB-C50Fi.

Panorama Window * Not available with the VB-C50FSi/VB-C50Fi.

You can control the camera by clicking on the panorama window or dragging the yellow frame on the panorama window.



The black frame indicates the range of movement for the camera center. The camera center cannot be moved outside this frame.

The blue frame indicates the area currently being photographed by the camera when you do not hold camera control privileges.

When you are granted control privileges, this changes to a yellow frame. This frame not only indicates the area being photographed by the camera, but you can also control the camera pan and tilt by dragging the entire frame around and control the camera zoom by dragging the edge of the frame to change its size.



Note

The size of the panorama window may differ from that shown above if field of view restrictions have been specified on the camera server.

Starting Camera Control

Although multiple clients can simultaneously connect to the camera server, multiple clients cannot simultaneously control the camera. Consequently, “control privileges” has been introduced by which only the client who currently holds the control privileges can control the camera. The use of backlight adjustment and presets is also limited to the client who currently holds the control privileges.

Procedure

Click the [Start Control] button to acquire control privileges.



Camera control status window
Shows the camera control status.

■ Camera Control Status Displays

The display changes depending on the camera control status.

1



Camera is not controlled.

2



Awaiting control privilege reservation. The number beside the person icon shows the estimated time until control privileges are granted. However, you may be granted control privileges before this number reaches “0” because other users may cancel camera control or withdraw from the queue.

3



You have been granted control privileges. The number beside the clock icon is your period of exclusive control.

4



You can retain control privileges even though your period of exclusive control has expired. This is because there are no camera control requests from other clients.

5



For some reason, you have been disconnected from the camera control server, you could not connect to the camera control server at startup, or your connection was not permitted. The status display panel turns red.

Controlling the Camera

Once you have been granted camera control privileges, you have complete control over the camera angle, the zoom ratio and the backlight adjustment setting.

Changing the Camera Angle

* Not available with the VB-C50FSi/VB-C50Fi.

Procedure

Move the button on the Pan Scroll Bar or Tilt Scroll Bar.

The camera angle changes to match the position of the scroll bar buttons.

Also, if you click a point on the image, the camera moves so that the point you clicked becomes the center of the video.



By clicking a point on the video, you can move the center of the camera to that point.

Tilt Scroll Bar

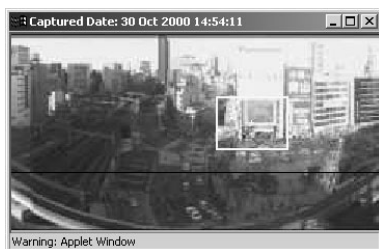
This scroll bar changes the camera's tilt (up or down).

Pan Scroll Bar

This scroll bar changes the camera's pan (left or right).

Changing the Camera Angle on the Panorama Window

* Not available with the VB-C50FSi/VB-C50Fi.



By clicking

When you click on the panorama window, the camera pans and tilts so that the place you clicked moves to the center.

By dragging

When you drag inside the yellow frame on the panorama window to another position, the camera pans and tilts to shoot the area in the frame.

Changing the Camera Zoom Ratio

Procedure

Move the Zoom Scroll Bar button up or down.

The camera zooms in or out to match the position of the zoom bar button.



Zoom Scroll Bar

Move the button up to zoom in (telephoto).
Move the button down to zoom out (wide-angle).

■ Changing the Zoom Ratio on the Panorama Window * Not available with the VB-C50FSi/ VB-C50Fi.



By dragging

When you drag the edge of yellow frame on the panorama window to change the frame size, the zoom ratio changes accordingly.



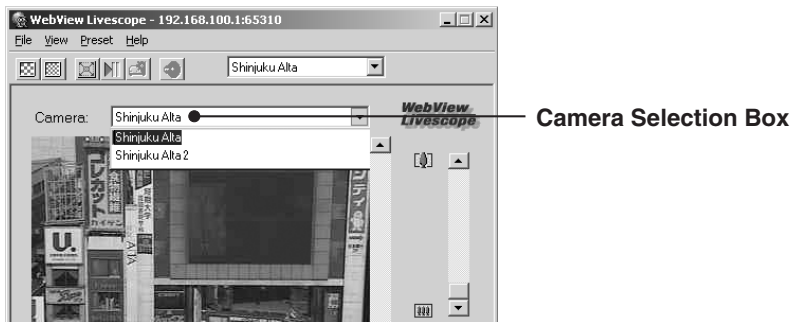
Tip

If you click outside the frame and drag the mouse while holding the button down, a blue frame is drawn. When you release the mouse button, the blue frame turns yellow and the camera pans, tilts and zooms to shoot the area in the new frame.

Selecting the Camera

Procedure

When multiple cameras are connected to the camera server, you can switch between cameras. Click on the Camera Selection Box to view the list of cameras. When you select a camera from the list of names, the display changes to show the video from that camera.



Using Presets

Procedure

You can control the camera by selecting preset camera positions (presets) registered on the camera server.

Click on the Preset Selection Box to view the list of preset positions. When you select a preset position from the list, the display changes to show the video from that position.



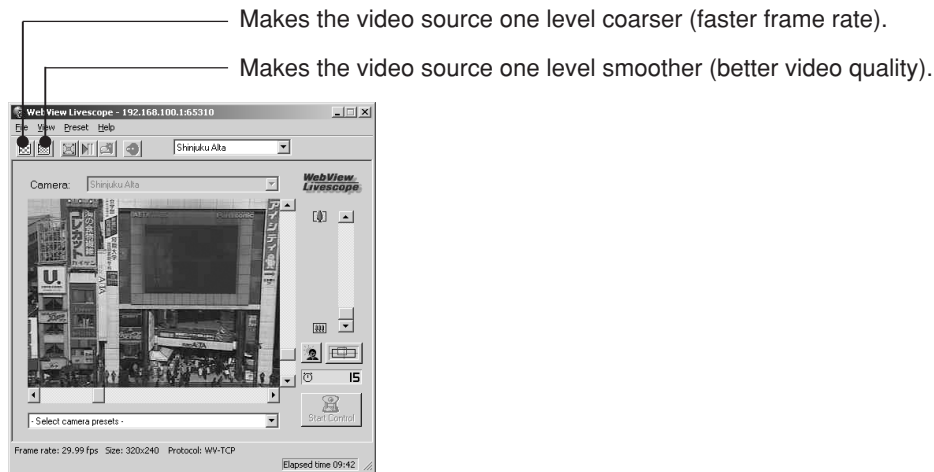
The presets and camera selection options displayed are those set on the camera server. If no presets or additional cameras are registered on the camera server, no selection options are shown.

Changing the Video Source Size

Procedure

If multiple video source sizes are specified on the camera server, these buttons can be used to select the size used for display. Changing the video source size does not change the size of the video displayed.

* The effects of the Video Source Size Change Button may not be reflected in all camera servers or settings.

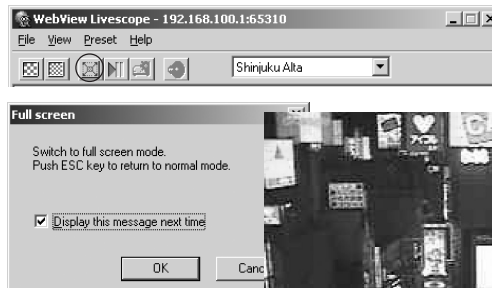


Using Full-Screen Mode

Procedure

You can use this function to view the video displayed at full-screen size. If you click the [Full-Screen Mode] button and then click [OK] in the confirmation dialog box that appears, the video

appears at full-screen size. To revert to the original video size, press the [Esc] key. If you



click the right mouse button while in full-screen mode, a pop-up menu appears from which you can choose to return to the original video size or pop up the panorama window on the current video.

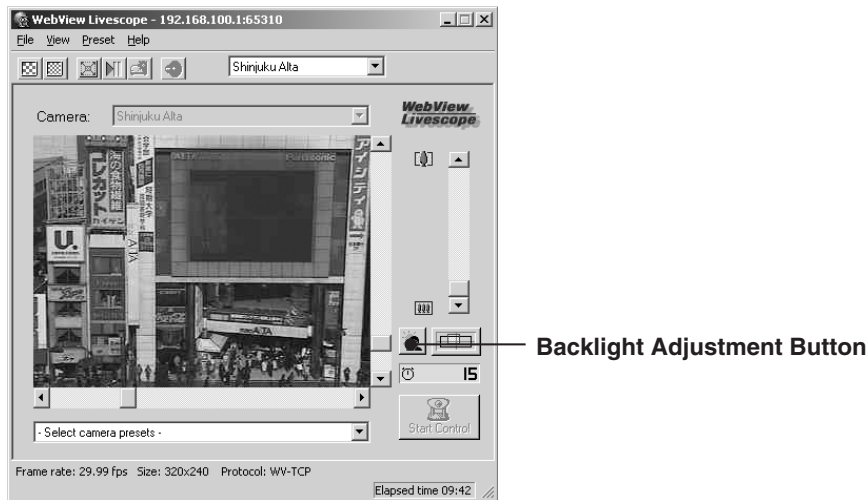


Adjusting Backlight

Procedure

Backlight adjustment is useful when the video is dark due to backlighting. When you click the [Backlight Adjustment] button, video darkened by backlighting becomes brighter.

Click the button again to cancel.



Pausing and Restarting Video Display

Procedure

Video can be paused or restarted. Click the Pause/Restart button. Video can also be paused on the menu that is displayed when you right click the mouse on the viewer screen. To resume, right click the mouse and select "Resume Paused Picture".



"Pause Picture Display" to stop video display and "Resume Paused Picture" to restart the paused video display.

Registering a camera site during connection

Procedure

By registering a camera site during connection, subsequent connections to that site become easy. The camera site currently connected can be registered by clicking the [Register



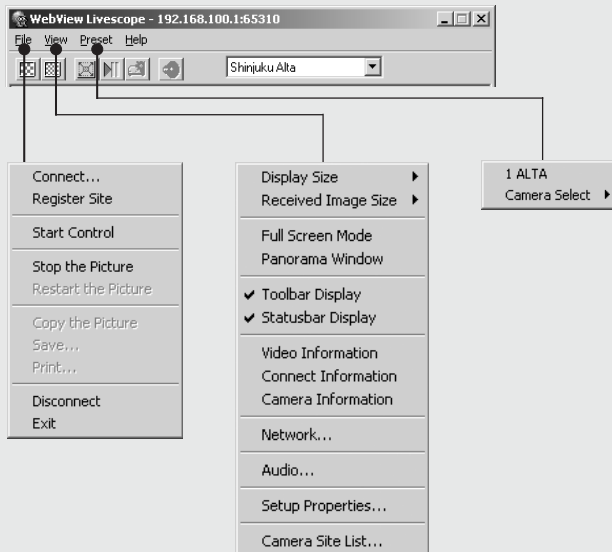
Connected Site] button (up to 100 camera sites). Registered camera sites are displayed in the Site Selection box and can be connected to by simply selecting them. Registered camera sites can also be changed or deleted (→ p.48).



Tip

Menu-based Operations

All the functions accessed via buttons can also be accessed from the menu bar. Functions that can only be accessed from the menu bar are discussed on the following pages.



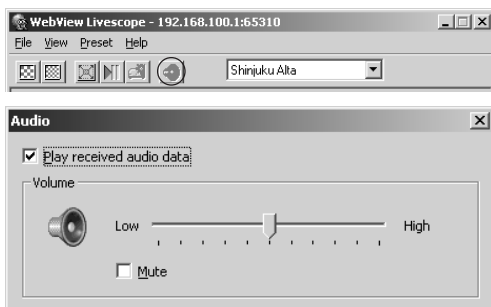
* See p.47 for details on using the Camera Site List.

Playing back audio

Procedure

* This function cannot be used if the camera is connected to a camera server that does not support audio.

Click [Audio settings] and configure the audio data sent from the camera server (For cameras which have an audio function).



Play back the audio data: If this setting is ticked, and audio has been transmitted, the audio is played back.

Volume slide bar: Adjusts the volume.

Mute: If this setting is ticked, the volume is turned off.



When playing back audio, please read carefully “Usage Notice of Audio” (→ P.4).



Even if the audio is played back, it will stop if the Viewer is minimized.

Saving and Printing Still Pictures

You can save and print snapshots of live video you want to retain.

Saving Still Pictures to Files

Procedure

- 1 When the video you want to save appears, click the [Pause/Resume] button.
The video is displayed as a still picture.
- 2 Select “Save” from the “File” menu.
When it ends, the video is resumed when you click the [Pause/Resume] button.



Under copyright law, video or still pictures photographed by the viewer cannot be used for any purpose other than personal enjoyment without prior permission from the copyright holder.



Saved File Formats

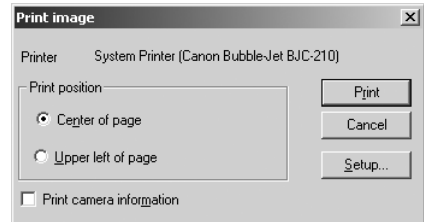
Files are saved in BMP format.

Saved still pictures can be viewed using a Web browser or image display software.

Printing Still Pictures

Procedure

- 1** When the video you want to print appears, click the [Pause/Resume] button.
The video is displayed as a still picture.
- 2** Select "Print" from the "File" menu.
- 3** Specify the print settings.
To change the printer settings, click the [Setup] button.
When you have finished printing, click the [Pause/Resume] button to restart video display.

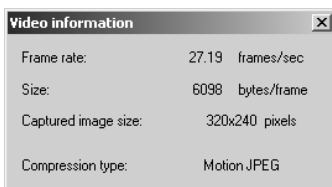


Setting	Details
Print position	Specifies the print position for the image.
Print camera information	Ticking this checkbox prints camera parameters such as the pan and tilt angles with the image.

Displaying Information

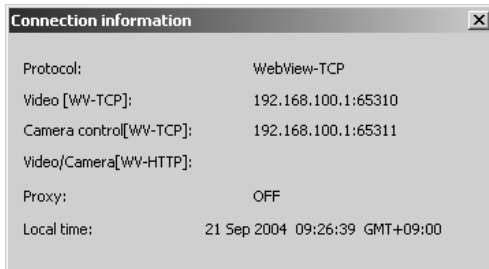
Dialog boxes can be displayed that show the video, connection and camera information. To view this information, select "Video Information", "Connect Information", "Camera Information" or "Network" from the "View" menu.

Video Information



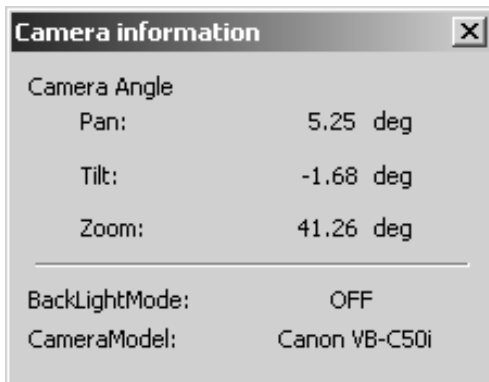
- Frame rate
Received frame rate
- Size
Data capacity per frame
- Captured image size
Height and width of the video data being received
- Compression type
Server's video compression method

Connection Information



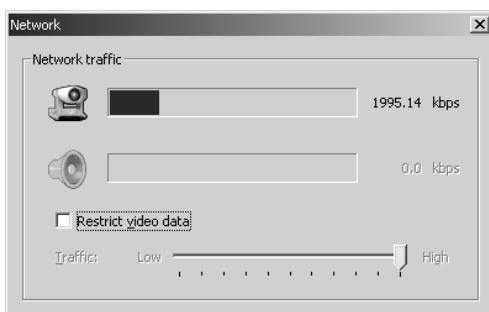
- Protocol
WebView-TCP or WebView-HTTP
- Video [WV-TCP]
IP address of camera server:port number
- Camera control [WV-TCP]
IP address of camera server:port number
- Video/Camera [WV-HTTP]
IP address of camera server:port number
- Proxy
Proxy usage information
- Local time
Local time on the camera server (GMT)

Camera Information



- Pan
Current camera pan angle
- Tilt
Current camera tilt angle
- Zoom
Current camera zoom (viewing angle) value
- BackLightMode
Current backlight adjustment ON/OFF status
- CameraModel
Model of the camera

Network



- Indicator (camera mark)
Video data network band
- Indicator (speaker mark)
Audio reception network band
* Not displayed if Audio is not connected.
- Restrict video data
You can control the video data band traffic.

Chapter 3

Viewer for PC Settings

This chapter describes how to specify the software environment settings for the Viewer for PC.

Viewer for PC Settings

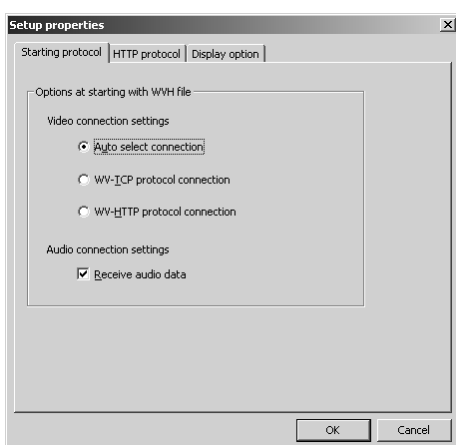
From the “Setup Properties” window, you can specify a range of settings governing the operation of the Viewer for PC. **Normally, there is no need to alter these settings.**

“Starting protocol” Setting

Specify whether connection to the camera server is to be made using the WebView-TCP protocol or the WebView-HTTP protocol.

Procedure

- 1 Select “Setup Properties” from the “View” menu.
- 2 Select protocols from the “Options at starting with WVH file” in the “Starting protocol” tab.



- “Auto select connection”
Use this setting when you do not know the details of the connection environment. When this option is selected, the viewer first tries to connect using WebView-TCP and then tries WebView-HTTP.
- “WV-TCP protocol connection”
This setting uses the WebView-TCP protocol used specifically by WebView for TCP connections. To penetrate firewalls with this protocol, a dedicated application gateway is required.
- “WV-HTTP protocol connection”
This setting uses the WebView-HTTP protocol, which is the WebView protocol that conforms to the ordinary HTTP standard. The HTTP proxy can be used as is and the firewall can be passed.
- “Receive audio data”
Remove the tick if you do not want to receive audio data.



Note

Viewing video from behind a firewall

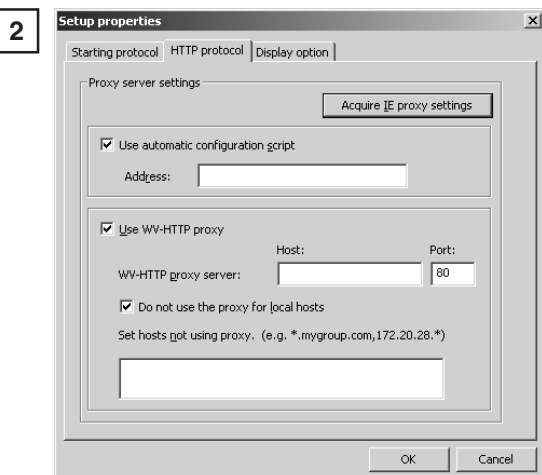
To view video from behind a firewall using the WebView-HTTP protocol, you must specify the HTTP proxy settings. You can set the same settings as the HTTP proxy specified in your Web browser. If you want to access video from behind a firewall, select WV-HTTP protocol. (See P.45 for details.)

“HTTP protocol” Setting

Specify these settings when you are connecting using the WebView-HTTP protocol.

Procedure

- 1 Select “Setup Properties” from the “View” menu and then select the “HTTP protocol” tab.



Enter each item. To automatically import Internet Explorer HTTP proxy settings, click “Acquire IE proxy settings”.

■ Use automatic configuration script

Tick if you want to use the automatic configuration script. Once ticked, enter the URL of the Settings file in the “Address” field.

■ Use WV-HTTP proxy

[WV-HTTP proxy server]

Tick if you want to use an HTTP that uses a proxy. This then allows you to penetrate firewalls. Once ticked, enter the domain name or IP address of the HTTP proxy server host in the “Host” field, and enter the port number in the “Port” field.

[Do not use the proxy for local hosts]

Tick if you want to connect to local addresses without using the proxy.

[Set hosts not using proxy]

You can set up servers that can be accessed without using a proxy, not to use a proxy. In this field, enter the domain name or IP address of the host that does not use a proxy. To specify multiple hosts, use a comma (,) to separate the specifications.



Tip

You can use asterisks (*) as wildcards in the host name in the “Set hosts not using proxy.” setting. This allows you to specify multiple host names at once. (Example)

192.168.100.*

Hosts with an IP address that begins with “192.168.100.” do not use the proxy.

***.webview.co.jp**

Hosts on the network with the “webview.co.jp” domain name do not use the proxy.

“Display option” Setting

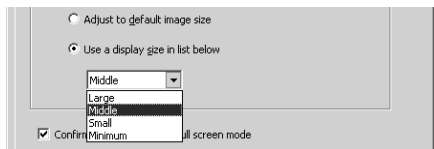
Use this setting to specify the size of the video displayed at startup. Note that the opening screen shown at startup is displayed at an image size of 320 × 240.

Procedure

- 1 Select “Setup Properties” from the “View” menu and then select “Display option”.
- 2 Select “Set video display size used at startup”.



- “Adjust to default image size”
When you connect to the server, the viewer starts up with the image size matched to the image size initially sent.
- “Use a display size in list below”
Allows you to select any of 4 sizes: Large, Middle, Small and Minimum.



Tip

The image size varies according to the type and settings of the connected camera server.

	NTSC	PAL
Large	640 × 480	768 × 576
Middle	320 × 240	384 × 288
Small	160 × 120	192 × 144
Minimum	80 × 60	96 × 72

Registering and Changing the Server

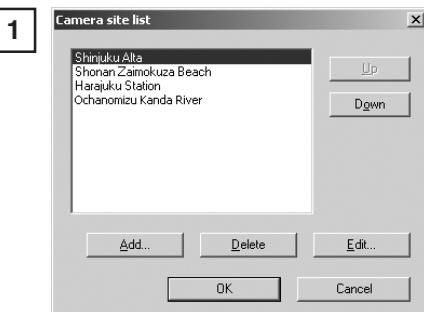
The camera server can be registered beforehand and thereafter you can access the server simply by selecting it from the registered servers. The procedures for registering and changing camera server are described below.

Registering in a Camera Site List

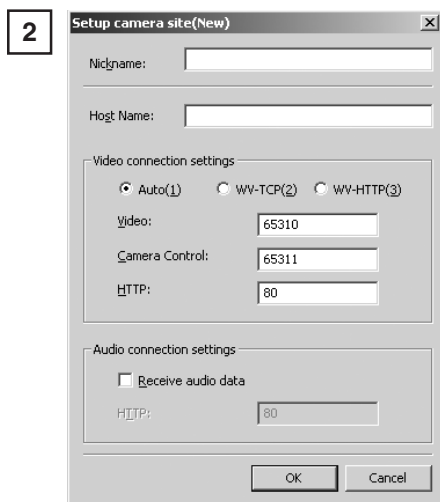
Adding to a list

The camera server can be registered during connection by clicking the “Register connected site” button or choosing “Register Site” in the File menu. If the site is currently not connected, it can be registered following the procedure below:

Procedure



Choose “Camera Site List” from the “View” menu. When the camera site list appears, click Add.
Up to 100 camera sites can be registered.



The “Setup camera site” dialog box appears. Enter each item and click “OK” to add a camera server to the list.

■ Nickname

Any name can be given to the camera server being registered.

■ Host Name

Specify the IP address of the camera server.

■ Video connection settings

[Auto] [WV-TCP] [WV-HTTP]

Select whether to connect to the camera server using auto selection, or to connect using the WebView-TCP or WebView-HTTP protocol. When connecting with auto selection, the viewer automatically selects the optimum protocol and connects to the camera server. If you are connecting to the camera server from inside a firewall, select WebView-HTTP (→ pp.44, 45).

[Video] [Camera Control] [HTTP]

Specify the port numbers of the camera server. These are the values specified on the camera server. They can normally be used with the default settings.

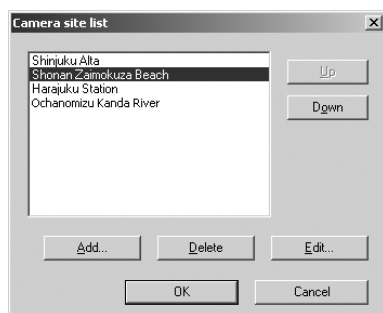
■ Receive audio data

Remove the tick if you do not want to receive audio data.

Changing or deleting registration details in the list

Procedure

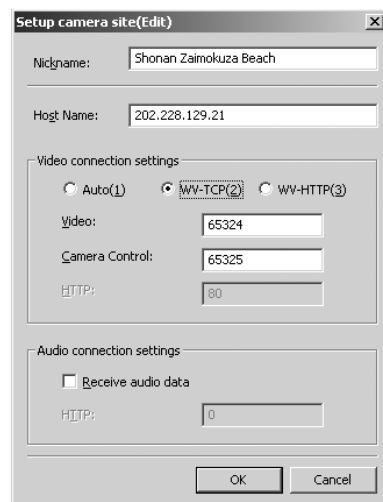
1



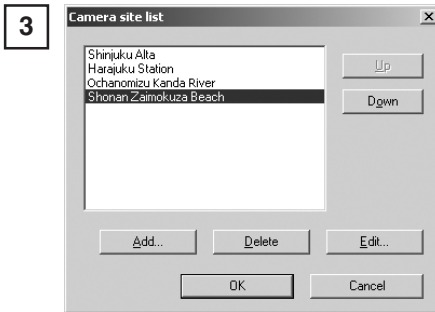
Choose “Camera Site List” from the “View” menu, and select the registered camera site that you want to change or delete.

If you want to make changes in the details, click Edit. To delete a site, click Delete.

2



Make the changes. Click “OK” to activate the changes.



While a camera site is selected, you can move it to a different position in the list by clicking the Up or Down button. This order is reflected in the list displayed in the Site Selection dialog box.

Appendix

Messages displayed in the viewers are explained in this section.

Error Messages

Viewer for Java Error Messages

Situation	At connection
Message	too many clients
Details	The limit on the number of video server connections has been exceeded.
Solution	Access to the camera server is apparently overcrowded. Wait some time and then reconnect.

Situation	At connection
Message	can't connect version mismatched
Details	The camera server is a different version.
Solution	Clear the Web browser cache.

Situation	At connection
Message	can't connect
Details	The viewer cannot connect to the camera server.
Solution	There is a coding error in the Web page used for video distribution, or there is a problem on the camera server. Check with the administrator of the video distribution Web page.

Situation	During camera control privileges acquisition
Message	couldn't get camera control
Details	The limit on the number of people queuing for camera control privileges has been exceeded.
Solution	Access to the camera server is apparently overcrowded. Wait some time and then try again to acquire control privileges.

Situation	At connection
Message	camera control is disabled
Details	The viewer cannot connect to the camera control server.
Solution	This is normal operation because camera control is prohibited by the camera server.

Situation	At connection
Message	camera is off-line or abnormal
Details	The connected camera is switched off or the RS cable is not connected.
Solution	There is a problem with the camera server (with the camera power supply or the RS cable connection). Check with the administrator of the camera server.

Situation	At disconnection
Message	disconnected
Details	The connection time limit has expired or the connection was cut due to restart processing on the camera server.
Solution	To reconnect, reload (refresh) the Web page in your Web browser.

Viewer for PC Error Messages

Situation	At connection
Message	No response from video server.
Details	The viewer could not connect to the video server.
Solution	There is a coding error in the Web page used for video distribution, or there is a problem on the camera server. Check with the administrator of the camera server.

Situation	At connection
Message	Network is busy. Please try again later.
Details	The limit on the number of video server connections has been exceeded.
Solution	Access to the camera server is apparently overcrowded. Wait some time and then try again to acquire control privileges.

Situation	At connection
Message	No response from camera control server. You can use video only.
Details	The viewer could not connect to the camera control server.
Solution	This is normal operation because camera control is prohibited by the camera server.

Situation	At connection
Message	Couldn't get camera control privileges.
Details	The limit on the number of people queuing for camera control privileges has been exceeded.
Solution	Access to the camera server is apparently overcrowded. Wait some time and then reconnect.

Situation	At connection
Message	You do not have video server access privileges.
Details	There is a restriction applied in the camera server settings that limits the IP addresses of clients allowed to connect.
Solution	This is normal operation. This situation is set up by the camera server administrator.

Situation	At connection
Message	Camera switched off or faulty.
Details	The connected camera is switched off or the RS cable is not connected.
Solution	There is a problem with the camera server (with the camera power supply or RS cable connection).

Situation	At connection
Message	Invalid WVH file.
Details	There was an error in the information in the WVH file.
Solution	There is a coding error (WVH file) in the Web page used for video distribution, or there is a problem on the camera server. Check with the administrator of the web page.

Situation	At disconnection
Message	Disconnected
Details	The connection time has expired or the connection was cut due to restart processing on the camera server.
Solution	Restart your Viewer for PC.

Situation	At connection
Message	Audio connection not possible
Details	Audio connection not authorized on the server side, or the device does not have an audio connection function.
Solution	Check with the camera server administrator.

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