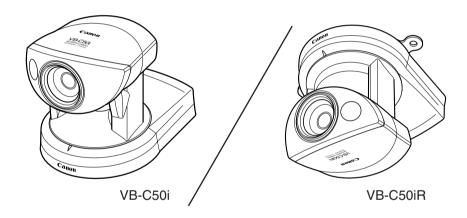
#### **NETWORK CAMERA**

# VB-C50i/VB-C50iR

## **User's Manual**



Please read this User's Manual carefully before operation. Be sure to read the "\(\triangle \) Safe Use of Equipment" section before using this equipment. Store this manual in a readily accessible location for future reference.



## Introduction

Thank you for purchasing the Canon Network Camera VB-C50i/VB-C50iR (referred to hereafter as the VB-C50i/VB-C50iR).

This User's Manual describes how to set up and use the VB-C50i/VB-C50iR. Read this manual carefully before using the VB-C50i/VB-C50iR to ensure effective operation. In particular make sure that you read the " $\Delta$  Safe Use of Equipment" in this manual, as well as the supplied CD-ROM ReadMe file.

#### **Exclusion of Liability**

If the Product is connected to a recording device (for example a VCR), Canon Inc. accepts no responsibility whatsoever for any financial losses that may be incurred as a result of the loss of recorded information or images, regardless of the internal or external cause of the loss.

#### Copyright Information

Video or still pictures recorded using your VB-C50i/VB-C50iR cannot be used in ways that infringe copyright laws or without the consent of the owner, unless intended for personal use only.

#### Notes

- 1. 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.
- Every effort has been made to ensure that this Manual is flawless. However, if you find any oversights, please let us know.
- Notwithstanding the above, Canon accepts no responsibility for any effects resulting from the use of this Manual.

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- Other brand or product names in this manual may be trademarks or registered trademarks of their respective companies.

This product uses software based on the GNU General Public License (GPL), GNU Lesser General Public License (LGPL) and the BSD License. For each of the licenses, see GPL.txt, LGPL.txt and COPYING.txt in the LICENSE folder on the CD-ROM.

If you require the source code for a program based on GPL or LGPL, please see the following web site:

http://www.canon.com/webview/webview-tech/

Alternatively contact either the place of purchase or your nearest Canon Sales Company.

#### **Usage Notice of Audio**

- 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.

#### Request concerning disclosure of live videos

With respect to the disclosure of live videos, we request that sufficient consideration be given to matters of privacy and rights not to be photographed. Canon considers the following points concerning such matters when it operates camera sites for which it has been responsible to install and operate:

- We take measures such as adding limitations on zoom magnifications so that people cannot make special specifications.
- When videos are taken of specific buildings, interiors and the like, we install the camera only after receiving approval from the administrator.

Please note that the operator of the camera site and not Canon has full responsibility regarding the disclosure of live videos.

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## **Package Contents**

The VB-C50i/VB-C50iR package contains the following items. If any of these items is missing, please contact the retailer from which you purchased the product.

# 1. VB-C50i main unit (or VB-C50iR main unit)





# 3. AC cable (1 meter/3 ft.) (NTSC model only)



- The cable length may differ depending on the country in which the product was purchased.
- 5. User's Manual (This document)
- 6. Warranty card (NTSC model only)

#### 2. AC adapter PA-V16 (NTSC model only)



#### 4. CD-ROM



#### **CD-ROM** contents

- ReadMe-J.txt (Japanese text containing precautions etc. other than those in this document)
- ReadMe-E.txt (English text containing precautions etc. other than those in this document)
- VBSetup.exe (Initial settings tool)
- VBC50i-J.pdf (Japanese PDF of this document)
- VBC50i-E.pdf (English PDF of this document)
- Viewer-J.pdf (Japanese User's Manual for the Viewer software)
- Viewer-E.pdf (English User's Manual for the Viewer software)
- vbfiles folder (File system sets of sample pages
- LICENSE folder (License documents for software built into the VB-C50i/VB-C50iR)
- VBTools folder (Bundled software installer set)
  SOUND folder (Sound sample files for audio play back)

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## **How to Read This Manual**

# For information about setting up the VB-C50i/VB-C50iR



Read this manual carefully before using the VB-C50i/ VB-C50iR.

User's Manual (This document)

# For information about using the Viewer



Viewer Software User's Manual (Viewer-E.pdf) This manual describes how to use the Viewer for Java and the Viewer for PC.

Sections where the user should refer to this manual are indicated by the A icon accompanied by the relevant page number.

## Safe Use of Equipment



An exclamation point, within a triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the equipment.

#### **⚠ Important Warnings**

#### **↑** CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The serial number of this equipment may be found on the bottom of the VB-C50i/VB-C50iR. No others have the same serial number as yours.

You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

Date of Purchase

Dealer Purchased from

Dealer Address

Dealer Phone No.

Model No. VB-C50i or VB-C50iR

Serial No.

#### 

#### **MARNING:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

#### **↑** CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK AND TO REDUCE ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

#### **FDA** regulation

This Network Camera has not been evaluated by the Food and Drug Administration (FDA) for use as a medical device. When incorporated into a system with medical applications, FDA regulations may apply. Therefore, please consult your legal advisor to determine whether FDA regulations apply.

#### **FCC NOTICE**

Network Camera, Model: VB-C50FiN, VB-C50FiP

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A. Inc.

One Canon Plaza, Lake Success, NY 11042, U.S.A.

Tel No. (516) 328-5600

#### **Canadian Radio Interference Regulations**

This Class B digital apparatus complies with Canadian ICES-003.

#### Réglementation canadienne sur les intérferences radio

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Dieses Produkt ist zum Gebrauch im Wohnbereich, Geschäfts- und Gewerbebereich sowie in Kleinbetrieben vorgesehen.

#### **↑** IMPORTANT SAFETY INSTRUCTIONS

In these safety instructions, the word "equipment" refers to the Canon Network Camera VB-C50i/VB-C50iR and all its accessories

- Read Instructions All the safety and operating instructions should be read before the equipment is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference
- Heed Warnings All warnings on the equipment and in the operating instructions should be adhered to.
- Follow Instructions All operating and maintenance instructions should be followed.
- 5. Cleaning Unplug this equipment from the wall outlet before cleaning.
  Wipe the equipment with a clean soft cloth. If necessary, put a cloth in diluted neutral detergent and wring it well before wiping the equipment with it. Finally, clean the equipment with a clean dry cloth. Do not use benzene, thinner or other volatile liquids or pesticides as they may damage the product's finish. When using chemically-treated
- Accessories Do not use accessories not recommended in this manual as they may be hazardous. Always use specified connection cables. Connect devices correctly.

accordingly.

cleaning cloths, observe those precautions

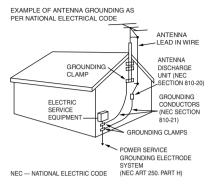
- Water and Moisture Hazard of electric shock

   Do not use the equipment near water or in rainy/moist situations. Do not put a heater near this equipment.
- 8. Placing or Moving Do not place on an unstable cart, stand, tripod, bracket or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the

serious damage to the equipment. An equipment and cart combination should be moved with care.

- Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.
- Power Sources The PA-V16 AC adapter should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your equipment dealer or local power company.
- 10. Polarization The PA-V16 AC adapter is equipped with a polarized 2-prong plug (a plug having one blade wider than the other). The 2-prong polarized plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 11. Power Cord Protection Power cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to plugs and the point from which the cords exit the equipment.
- 12. Outdoor Antenna Grounding If an outside antenna is connected to the equipment, be sure the antenna is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna, antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure 1.

fig-1



- 13. Lightning For added protection of this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, disconnect it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.
- 14. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 16. Object and Liquid Entry Never push objects of any kind into this equipment through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Be careful not to spill liquid of any kind onto the equipment.
- 17. Servicing Do not attempt to service this equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.

- 18. Damage Requiring Service Disconnect this equipment from the wall outlet and all power sources including batteries, and refer servicing to qualified service personnel under the following conditions.
  - a. When the power-supply cord or plug is damaged.
  - b. If any liquid has been spilled onto, or objects have fallen into, the equipment.
  - c. If the equipment has been exposed to rain or water.
  - d. If the equipment does not operate normally even if you follow the operating instructions. Adjust only those controls that are covered by the operation instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.
  - e. If the equipment has been dropped or the cabinet has been damaged.
  - f. When the equipment exhibits a distinct change in performance. This indicates a need for service.
- 19. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts that are specified by Canon or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- 20. Safety Check Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in safe operating order.
- 21. Do not install the equipment in the following locations as this can cause a fire or electric shock:
  - Hot locations
  - Close to a fire
  - Very humid or dusty locations

- Locations exposed to direct sunlight
- Locations exposed to salt spray
- Close to flammable solvents (alcohol, thinners, etc.)
- 22. When any of the following occurs, immediately switch OFF the equipment, unplug it from the main power supply and contact your nearest Canon supplier. Do not continue to use the equipment as this can cause a fire or electric shock.
  - The equipment emits any smoke, heat, abnormal noise, or unusual odor.
  - A metal object falls into the equipment.
  - The equipment is damaged in some way.
- Please observe the following when using the equipment. Failure to do so can result in a fire or electric shock.
  - Do not use flammable sprays near the equipment.
  - Do not subject the equipment to strong impacts.

#### Maintenance

#### Cleaning the Equipment

- 1. Unplug the AC adapter from the wall outlet.
- 2. Carefully wipe the equipment with a soft cloth that has been moistened with water or a mild detergent.





#### **↑ WARNING:**

Do not use flammable solvents such as alcohol, benzene or thinners.

The use of such substances can cause a fire or electric shock.

- 3. Wipe with a dry cloth.
- 4. When you have finished, plug the AC adapter back in to the wall outlet.

#### Cleaning the Lens

Use a commercially available lens cleaner to remove any soiling from the lens.



- The auto-focus may not function correctly if the surface of the lens is
- Scratches on the surface of the lens will cause image defects.

#### Icons Used in This Instruction Manual



Indicates important information that must be observed or actions that are prohibited during an operation. These notes must be read to prevent possible faults or damage to the equipment.



Indicates supplementary information or a reference to an operation. Users are advised to read these memos.



Refer to the PDF manual on the supplied CD-ROM.



# Before Using the VB-C50i/VB-C50iR

This chapter describes the features of the VB-C50i/VB-C50iR, the hardware and software requirements, and the name and functions of the system components.

## Features of the VB-C50i/VB-C50iR

The VB-C50i/VB-C50iR is a system that distributes live videos via the Internet or an Intranet. It can be used in a wide range of applications, such as distributing live videos from a Web site or monitoring. The system is configured for the VB-C50i/VB-C50iR and viewer software. Please use the supplied viewer software for viewing videos distributed by the VB-C50i/VB-C50iR and controlling cameras ( $\rightarrow$  P.1-4, 2-12).

#### Broadband Video Distribution function

The VB-C50i/VB-C50iR is capable of capturing videos at up to 30 fps (NTSC)/25 fps (PAL). Motion-JPEG is used to compress video images. For networking, auto-negotiation between Ethernet 100Base-TX/10Base-T is provided and a leased line or ADSL can also be used through a router. Since video quality and the frame rate can be freely set, videos can be distributed under conditions that best suit the network bandwidth.

\*Please refer to P.1-10 to confirm whether your VB-C50i/VB-C50iR is PAL model or NTSC model.

#### Concurrent video is distributed up to 50 clients

Up to 50 clients can view video at the same time from a single VB-C50i/VB-C50iR.

#### Camera and video distribution server functions housed in a single unit

The camera capable of full pan, tilt, and zoom functions and its server functions for distributing videos through a network are compactly housed in a single unit. By simply connecting a LAN cable and a power supply, the unit can distribute live videos from any location\* where it is installed.

\*The unit cannot be installed in locations subject to direct sunlight, high temperatures, high humidity, or other adverse conditions (→ P.xiii, xiv).

#### High-performance 26x zoom and wide angle photographic range

The camera section is equipped with a 26x zoom lens. Furthermore, since the VB-C50i provides a pan angle of 200 degrees (100 degrees each to the left and right) and a tilt angle of 120 degrees (90 degrees up and 30 degrees down), and the VB-C50iR provides a pan angle of 340 degrees (170 degrees each to the left and right) and a tilt angle of 100 degrees (10 degrees up and 90 degrees down), the VB-C50i/VB-C50iR are capable of shooting wide areas.

#### ■ Can be mounted on ceilings, etc. (VB-C50iR)

The VB-C50iR includes a mounting plate, enabling it to be mounted in a variety of locations including ceilings\*. The shape of the camera head has been designed so that pan and tilt operations are still possible when mounted upside down.

\*The unit cannot be installed in locations subject to direct sunlight, high temperatures, high humidity, or other adverse conditions (→ P.xiii, xiv).

#### Remote camera control from the viewer

The VB-C50i/VB-C50iR come with two types of viewer software: the Viewer for PC and the Viewer for Java. The viewers give you full remote control of the camera angle (pan and tilt) and zoom magnification of the VB-C50i/VB-C50iR, allowing you to view videos with plenty of ambiance.

#### Panorama picture creation functions and settings

The entire photographic range of the camera can be created and saved as a panorama picture. The saved panorama pictures can then be easily used to visually set view restrictions and presets.

#### ■ Shade Correction function

If the background of an image is bright, making the subject difficult to see, you can adjust the

contrast of the darker areas to make it easier to see. Unlike backlight compensation, the shade correction feature allows image processing without adversely affecting the existing lighter regions.

#### ■ Camera Position Preset function

If often-used camera angles (camera head aim and zoom position) and related items are saved in advance as presets, the camera can be controlled from the viewer by simply selecting a desired preset. Up to 20 presets can be stored.

#### ■ View Restriction function

You can set restrictions on camera angle specifications and zoom magnifications to prevent viewers from seeing certain camera angles. For example, if the VB-C50i/VB-C50iR is showing camera footage on the internet, it is possible to distribute videos while protecting privacy (→ P.iii, "Request concerning disclosure of live videos").

#### ■ Built-in Web server and FTP server

The VB-C50i/VB-C50iR is equipped with built-in Web server functions that enable both Web pages and videos to be distributed through the Web by a single unit. Since it also has a built-in FTP server, Web page data file transfers (FTP) can be performed from remote locations.

#### Simple set up and management

By accessing a Settings page provided on the Web, you can use the Web browser on your PC to set up and manage the VB-C50i/VB-C50iR from a remote location without ever visiting the place where the VB-C50i/VB-C50iR is actually installed.

#### ■ More powerful security functions

The destinations for video distributions can be restricted based on passwords. Up to 50 clients can be registered.

## ■ Recording videos or playing audio via preset schedules or links with external devices

By using the Multi-Terminal Module ( $\rightarrow$  P. 1-11), you can set picture recording and audio playback etc. based on ON/OFF input from an external device and from previously-set schedules. If VBCollector is used, still pictures recorded by the VB-C50i/VB-C50iR can be automatically collected to a PC and viewed there.

#### ■ Audio transmission

Using the Multi-Terminal Module ( $\rightarrow$  P.1-11), you can connect speakers to the unit and send audio via the Viewer.

#### ■ Night mode shooting

Using the built-in infrared light (effective lighting range: approx. 3m [9.8ft.]), you can take pictures even in darkness.

#### ■ Motion detection function and automatic tracking function

You can perform external device control and video recording by detecting changes in the image caused by motion of people or objects. Automatic tracking of moving objects is also available.

#### Service settings with schedule function

You can start up motion detection and external device services by setting up a visual and easy-to-understand schedule in the calendar.

## **Hardware and Software Requirements**

For the latest information (firmware, software, manual, etc.) please refer to our WebView Product web page:http://www.canon.com/webview

#### **Viewer Software (→ △ Viewer Software User's Manual)**

The viewer software that is supplied with the VB-C50i/VB-C50iR lets you view the video captured by the VB-C50i/VB-C50iR and control the camera.

#### Viewer for Java Ver. 3.6

Operating System	Windows 2000 (SP4)/Windows XP (SP1a or SP2)	
Web Browser	Netscape 7.1, 7.2, or Microsoft Internet Explorer 6.0 (SP1 or SP2)	
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)		

<sup>\*</sup> Must be installed Java VM beforehand.

#### Viewer for PC Ver. 3.6

Operating System Windows 2000 (SP4)/Windows XP (SP1a or SP2)	
Web Browser	Netscape 7.1, 7.2, or Microsoft Internet Explorer 6.0 (SP1 or SP2)

<sup>\*</sup> Must be installed from the supplied CD-ROM ( $\rightarrow$  P.2-11).



- The manual for the viewer software is on the supplied CD-ROM (Viewer-E.pdf).
- Although older versions of viewers can be used, some of the features are different.
   Therefore, we recommend you to use the latest version.

On Macintosh PCs, some of the features of Viewer Ver. 1.2 are not available.

#### VB Initial Setup Tool Ver. 2.0 ( $\rightarrow$ P.2-7)

This tool is for performing initial settings for the VB-C50i/VB-C50iR.

Operating System	Windows 2000 (SP4)/Windows XP (SP1a or SP2)
Web Browser	Microsoft Internet Explorer 6.0 (SP1 or SP2)

#### **VB** Administration Tools Ver. 2.1 ( $\rightarrow$ P.4-2)

This tool lets you create panorama pictures from the VB-C50i/VB-C50iR and then easily use them to visually set view restrictions and presets. You can also set schedules with this tool.

Operating System Windows 2000 (SP4)/Windows XP (SP1a or SP2)	
Web Browser	Microsoft Internet Explorer 6.0 (SP1 or SP2)

<sup>\*</sup> Must be installed from the supplied CD-ROM ( $\rightarrow$  P.2-11).

<sup>\*</sup> This viewer may not run stably on operating systems and Web browsers other than those listed above.

#### **VBCollector Ver. 2.1** ( $\rightarrow$ **P.6-9**)

This tool is for collecting and viewing still pictures recorded by the VB-C50i/VB-C50iR on a PC.

Operating System Windows 2000 (SP4)/Windows XP (SP1a or SP2)	
Web Browser Microsoft Internet Explorer 6.0 (SP1 or SP2), Netscape 7.1 or 7.2	
Hard Disk 20 GB HDD or greater required (NTFS formatted)	

- \* Must be installed from the supplied CD-ROM ( $\rightarrow$  P.2-11).
- \* If you configure your system to record pictures per second with camera servers and perform the maximum of 16 tasks (→ P.6-15) at the same time, it is recommended that you use a desktop PC with Pentium 4 2.2 GHz and 512 MB RAM or greater.
- \* It is recommended that you configure to collect up to 10,000 still pictures/day per a camera server. If the total amount of still pictures exceeds this value, it may take several minutes to display all the pictures.



#### Using the VB-C50i/VB-C50iR with Windows XP SP2...

If you use the VB Initial Setup Tool or VBCollector with Windows XP SP2, you will need to change your Windows firewall settings on your PC.

#### **VB Initial Setup Tool**

If you installed the VB Initial Setup Tool on a PC with Windows XP SP2 and try to launch the tool, you may encounter a "Windows Security Alert" dialog.

If the Windows Security Alert dialog appears, click "Unblock". Once you click the Unblock button, the dialog box will not be displayed again.

Settings are now complete.

#### **VBCollector**

If you installed the VBCollector on a PC with Windows XP SP2 and used the Automatic Download by Notification function, please follow the procedures as described below. After installation of the VBCollector:

- 1. From the Windows "Start" menu, launch the "Control Panel".
- 2. In Control Panel, select "Windows Firewall".

If Windows Firewall is not shown, select "Security Center" and then select "Windows Firewall".

- 3. In the Windows Firewall dialog box, select the "Exception" tab and then click "Add Program".
- 4. In the "Add a Program" dialog box, click "Browse".

In the Browse dialog box, select the location where you installed the VBCollector and enter the file name as "VBCICSM.exe".

5. In the Windows Firewall dialog box, your program is now listed. Make sure it is enabled (checked). Click "OK" to close the dialog box.

Settings are now complete.

Continued on the following page.

If you finish setting the VB Initial Setup Tool (initial settings) or wish to stop the Automatic Download by Notification function using VBCollector, we recommend you to restore your Windows firewall settings on your PC.

- 1. Launch the Windows Firewall dialog box and then select the "Exception" tab (Refer to 1, 2 and 3 processes of the "VBCollector" for details).
- 2. Select a program you wish to restore and click "Delete".

VB Initial Setup Tool: VB Initial Setup Tool Ver. 2.0

VBCollector: VBCICSM.exe

3. A confirmation dialog appears. Click "Yes" to delete the program.

#### Multipoint Recording Software for Monitoring Use (Sold separately)

Videos distributed from the VB-C50i/VB-C50iR can be recorded, and recorded video can be displayed with the software.

#### Network Video Recorder VK-64/VK-16 v1.1 (Viewer System Requirements)

	Minimum	Recommended
CPU	Pentium III, 700 MHz or greater	Pentium 4 2.2 GHz or greater
Operating System	Windows 2000 Server* Windows 2000 Professional* Windows XP Professional (with SP2 recommended) Windows Server 2003 (Standard Edition) *With SP3 or SP4 (SP4 recommended).	Windows XP Professional (with SP2)
Memory	256 MB RAM or greater	1 GB RAM or greater For more than 16 Camera Servers, 1 GB or greater required.
Hard Disk	2 GB HDD or greater	
Display	1024 × 768 with 16 bit color	1024 × 768 with 16 bit color A high performance video card is desirable. With PCI video cards, display performance may be reduced.

#### Network Video Recorder VK-64/VK-16 v1.1 (Storage Server System Requirements)

	Minimum	Recommended
CPU	Pentium III 1 GHz or greater	Pentium 4 2.2 GHz or greater
Operating System	Windows 2000 Server* Windows 2000 Professional* Windows XP Professional (with SP2 recommended) Windows Server 2003 (Standard Edition) *With SP3 or SP4 (SP4 recommended).	Windows 2000 Server (with SP4) Windows XP Professional (with SP2) Windows Server 2003 (Standard Edition)
Memory	768 MB RAM or greater	1 GB RAM or greater For more than 48 Camera Servers, 1.5 GB or greater required.
Hard Disk	20 GB HDD or greater, SCSI or IDE, NTFS formatted	

The requirements for Storage Server will vary according to the environment you will use (number of Camera Servers, setting of recording frame rate etc.). Please contact dealers that handle Canon products for further information.

#### **Viewer Software for Monitoring Use (Sold separately)**

If WebView Livescope MV Ver. 2.1 is used, up to 16 viewer screens can be displayed and monitored. There is also a limited edition of MV Ver. 2.1, called MV LE, which allows up to 4 viewer screens to be displayed.

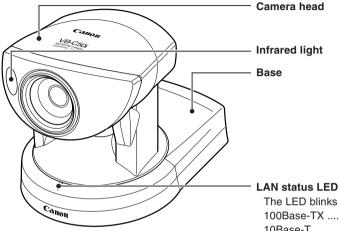
#### WebView Livescope MV Ver. 2.1/LE

	•
PC	CPU: Pentium III 600 MHz or greater, RAM: 128 MB or greater Hard disk capacity: 50 MB or greater (MV), 20 MB or greater (LE)
	Trait disk capacity. So wild of greater (WV), 20 wild of greater (LL)
Operating System	Windows Me/Windows 2000 (SP1)/Windows XP
Web Browser	Microsoft Internet Explorer 5.0 required
Display	XGA (1024 × 768) or better, 16-bit color display or better

## System Components and Their Operation

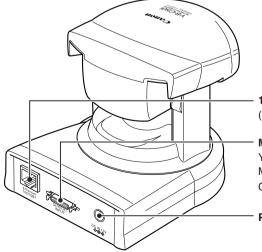
## VB-C50i

#### **Front**



\*You can set the LED to always light up even during communication. In this case, you can select from a green, orange or red light color. You can also set the LED to never light up (→ P.3-27).

#### Rear



**100/10 BT Ethernet connector** (100Base-TX, 10Base-T Auto-Negotiation)

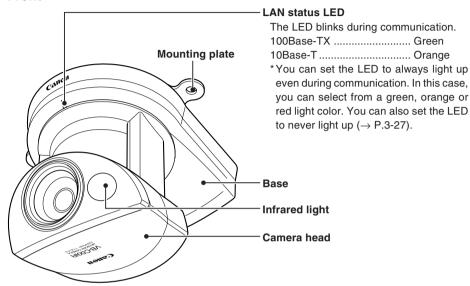
#### Multi-connector

You can connect the Multi-Terminal Module(VB-EX50) to the VB-C50i/VB-C50iR via the connector ( $\rightarrow$  P.1-11).

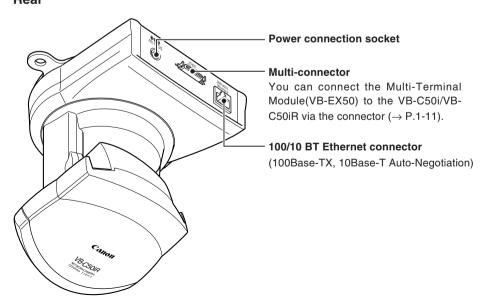
Power connection socket

## VB-C50iR



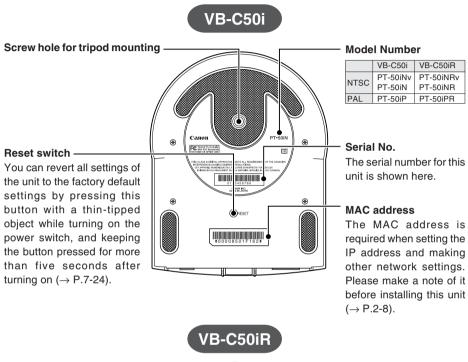


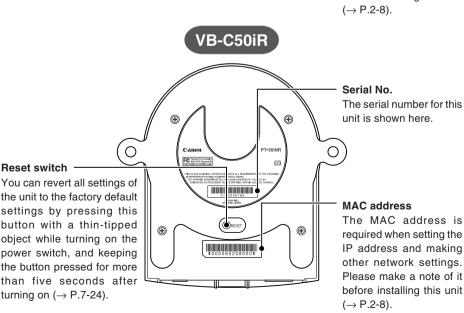
#### Rear



#### **Bottom**

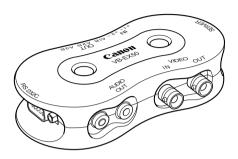
On the bottom of the VB-C50i/VB-C50iR there are the MAC address required for network settings, a Reset switch that returns the factory default settings and the serial number.





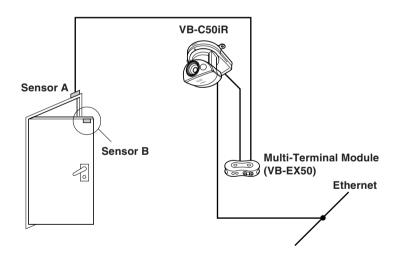
## Multi-Terminal Module (VB-EX50) (Sold Separately)

Using the Multi-Terminal Module (VB-EX50), you can connect external devices such as different kinds of sensors and speakers to the unit, and store images by sensor response ( $\rightarrow$  P.7-19). Please note that the Multi-Terminal Module (VB-EX50) is an optional product and is therefore sold separately.



#### **Example of Use**

With the Multi-Terminal Module, you can perform settings such as the following.



• The door open-close sensor responds when the door is opened and with the VB-C50iR installed on the ceiling, you can photograph an image and monitor the scene every second for 3 seconds before the door opens and for 7 seconds after the door is opened (→ P.6-2).



With a speaker connected to the camera, the Viewer Administrator can speak to the person in front of the camera.



# **Setting Up**

This chapter explains how to set up the VB-C50i/VB-C50iR, run initial checks, and confirm that the camera's images are displayed correctly.

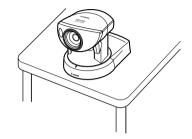
## **Setup Workflow**

The flow for setting up and checking the camera's images involves performing various settings after the device is set up and your PC and the network are connected via the hub. Then, check to see if you can display images from the camera.

## 1 Set up the camera

Set up the device.

Make sure the device is set up properly ( $\rightarrow$  P.2-4).



## 2 Connect the camera to the network

Connect the camera and your PC via the hub (→ P.2-6).

LAN cable

Hub

## 3 Perform initial settings for the camera

Insert the CD-ROM provided into your PC and perform initial settings following instructions on the screen ( $\rightarrow$  P.2-7).







## 5 Install the software

Install the required software in advance for operating the camera ( $\rightarrow$  P.2-11).





Access the device with your PC, then display to check the image from the top page of the camera server ( $\rightarrow$  P.2-10).

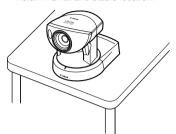


## 1. Set Up the Camera

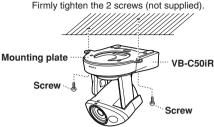
Firstly, set up the camera. Read the following carefully and make sure the camera is set up properly.

#### VB-C50i Installation

Install in a flat and stable location.



#### VB-C50iR Installation



#### (Installation)

- Distance between tapped holes: 120 mm (4.72 in.)
- Tapped hole diameter: 6.0 mm (0.24 in.)
- Mounting plate thickness: 1.6 mm (0.06 in.)

#### ⚠ WARNING:

Install the camera securely.

- When installing the VB-C50iR on the ceiling, contact your Canon dealer.
- When installing the VB-C50iR on the ceiling, check that the ceiling is strong enough to bear the weight of the VB-C50iR including the mounting plate. Installation in a weak location could result in the VB-C50iR falling and causing serious injury.
- At least once a year, check for looseness in the camera installation mount. (If the optional wide converter is used, check the converter mount also).



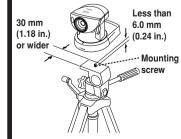
- The permissible camera installation angles are ±20° from the horizontal. (±15° when the optional wide converter is used for the VB-C50i).
- The MAC address required when making network settings is shown on the bottom of the VB-C50i/VB-C50iR (→ P.1-10). Please make a note of it before installing this unit (→ P.2-8).

#### Using a Tripod (VB-C50i)

The screw for mounting a tripod is on the bottom of the VB-C50i toward the front.



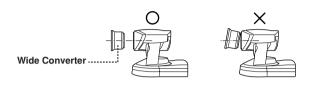
- Do not overtighten the mounting screw.
- If excessive force is used to tighten the mounting screw, camera head movement may be impeded, or other malfunctions may result.
- Always use a tripod mounting screw that is less than 6.0 mm (0.24 in.) in length. The use of screws 6.0 mm (0.24 in.) long or longer could damage the camera. Also, the tripod seat used should be at least 30 mm (1.18 in.) in diameter.



#### **Using the Wide Converter (VB-C50i)**

The optional Wide Converter WL-37 can be used to provide wide-angle shots (approx. 0.74× the normal focal distance).

Mount the wide converter correctly so that it is level and fitted securely onto the camera. When mounted correctly, the wide converter should turn roughly 3 times before stopping.



#### **↑** WARNING:

The Wide Converter WL-37 is designed specifically for the VB-C50i and cannot be used on the VB-C50iR.

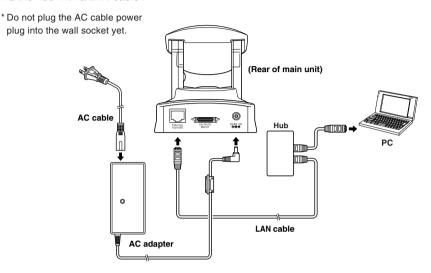


- The camera may not operate correctly if a wide converter other than the WL-37 is used.
- ullet The permissible range of camera installation angles with the wide converter mounted on the camera is  $\pm 15^{\circ}$  from the horizontal.
- If you use the optional Wide Converter WL-37, set the zoom lens to the wide-angle end. If you set the zoom lens to the telephoto end, the image resolution will be affected and the auto focus might have problems.
- When the Wide Converter has been set for use in "Camera and Video" (→ P.3-9), the pan and tilt values change for the three functions listed below. If the Wide Converter is to be used, pan and tilt values must be determined after the use of the Wide Converter has been set in "Camera and Video".
  - Home position setting (→ P.3-8)
  - View restrictions (→ P.3-9)
  - Preset settings (→ P.3-12)
- When the Wide Converter has been set for use in "Camera and Video" (P. 3-9), the infrared light cannot be used (→ P.4-69).

Setup is now complete.

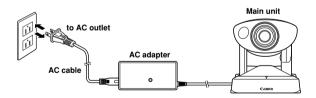
## 2. Connect the Camera to the Network

Next, connect the camera. Connect the camera to the network by connecting the camera and PC via the hub with a LAN cable .



#### **Turning the Power ON and OFF**

The VB-C50i/VB-C50iR itself does not have a power switch. You can switch the VB-C50i/VB-C50iR on by plugging the AC adapter into a wall outlet. The LED flashes when the VB-C50i/VB-C50iR is communicating. When the power supply is turned ON, the LED momentarily flashes.

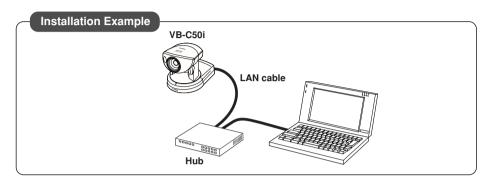




- The camera head position is automatically initialized when the power supply is turned ON from OFF.
- Never touch the camera head during initialization as this could prevent successful initialization and cause faults.
- Wait at least 5 seconds before turning the power back on after shutting it off. Turning
  it on too quickly may result in a malfunction. Observe the precautions given in "△
  Safe Use of Equipment/△ IMPORTANT SAFETY INSTRUCTIONS" (→ P.xii).
- If the picture recording function is being used, shutting off the power or restarting the VB-C50i/VB-C50iR will cause all pictures to be deleted.

## 3. Perform Initial Settings for the Camera

Once your PC and the camera are connected, perform the initial settings next. The instructions here follow on from "2. Connect the Camera to the Network", where one camera is connected to a PC as an example.

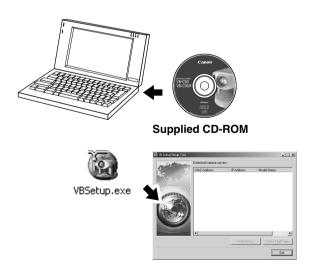


1. Turn on the network device (in this case, the hub) and then your PC.



Do not turn on the camera at this stage.

2. Insert the CD-ROM provided into your PC and from Explorer etc. double-click "VBSetup.exe" to start the VB Initial Setup Tool. Turn on the VB-C50i.



Continued on the following page.

The camera connected to the network is automatically detected and its MAC address, IP address and model name are displayed.

The factory default setting is:

IP address: 192.168.100.1

The MAC address can be found on the warranty card or on the white label attached on the bottom of the unit.

Note that VBSetup.exe cannot be used across subnets

Click the MAC address to select it, and click the "Initial Setup" button.

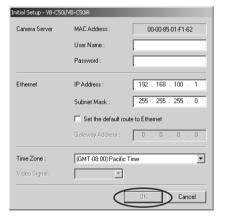


#### Enter the user name "root" and the factory default password "VB-C50i" and enter the IP address and subnet mask.

If you want to specify a default gateway address, enable the "Set the default route to Ethernet" check box and then enter the default gateway address.

Although the time zone and video signal can also be specified here, there is basically no need to change the time zone setting.

Once you have entered your settings, click the "OK" button.





For Windows XP SP2 users, see "Using the VB-C50i/VB-C50iR with Windows XP SP2" ( $\rightarrow$  P.1-5).



- The password for both the VB-C50i and the VB-C50iR is "VB-C50i".
- The MAC address for this unit is shown on the bottom of the VB-C50i/VB-C50iR  $(\rightarrow$  P.1-10).
- The IP address 192.168.100.1 is used as the factory default setting. Please set an IP address that suits the environment in which the VB-C50i/VB-C50iR is to be used.

5. A setup progress window appears and your settings will be saved.





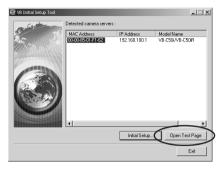
- Set the IP address to a value that suits your environment.
- Where the IP address has been automatically obtained from the DHCP server, you cannot change the IP address setting from the VB Initial Setup Tool. If you wish to change the IP address, change it from the Network Settings page ( $\rightarrow$  P.3-6).
- Please consult with your network administrator for the IP address, subnet mask and default gateway address settings.
- If 20 minutes or more passes after the VB-C50i/VB-C50iR is turned on, the VB-C50i/ VB-C50iR stops sending requests for IP addresses allocation and they cannot be detected using this tool. If this occurs, restart the VB-C50i/VB-C50iR.
- To restore the factory default settings, refer to page 7-23.
- If you are using the Multi-Terminal Module and are changing the connection of the VB-C50i/VB-C50iR and external camera, be sure to do this after having turned off the power of these 2 devices. After changing the connection, turn on the external camera first and then the VB-C50i/VB-C50iR.

Initial settings are now complete.

## 4. Check Operation of the Camera

When you have completed the initial setup, check that the VB-C50i/VB-C50iR works normally. Use the sample page to simplify checking.

 Select the MAC address you want to check operation of and then click the "Open Test Page".



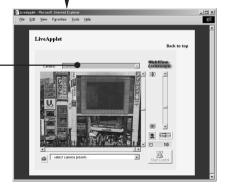
 Your Web browser starts up and the top page of the camera server appears.
 Click the "Using Viewer for Java" or the "Using Viewer for PC" and check that the video is displayed properly.

Below is a description of what happens when you click "Viewer for Java".



### Camera Selection box

Allows you to switch cameras when an external camera is connected.





- 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
- To use the Viewer for PC, you must install the Viewer for PC beforehand ( $\rightarrow$  P.2-11).
- We recommend that you perform panorama picture settings ( $\rightarrow$  P.4-7).

## 5. Install the Software

You must install software to display images from the camera and to manage the camera. There are 3 types of software you can install.

- VB Administration Tools: Software for managing the camera ( $\rightarrow$  P.4-2).
- Viewer for PC: Software for displaying images from the camera ( $\rightarrow$  P.2-12).
- VBCollector: Software for collecting and viewing pictures taken by the camera to be stored on a PC ( $\rightarrow$  P.6-9).
- 1. Check that all other applications are closed, insert the CD-ROM included with the camera into the CD-ROM drive of your PC and follow the steps below.
  - ① Double-click [My Computer] on the desktop. If you are using Windows XP, click the [Start] button and then [My Computer].
  - ② Double-click the CD-ROM icon displayed and then double-click the [VBTools] folder.
  - ③ Double-click [VBToolsInstall.exe] to start the installation.



2. Once the starting screen has appeared, select the installation method.

Easy Installation: **VB Administration Tools** 

and Viewer for PC are automatically installed. The basic software required is installed

easilv.

Custom Installation: Select whether you want

to install the Administration Tools. the Viewer for PC or the

VBCollector.



Follow the instructions on the screen to install the software.

Installation is now complete.

## **Viewer Software Overview**

By using the Viewer software, you can view images sent from the VB-C50i/VB-C50iR on a PC, as well as control the camera. Below is an outline of the Viewer software. For details, please refer to "Viewer Overview" ( $\rightarrow$  P.5-4) or to the Viewer Software User's Manual (Viewer-E.pdf) on the CD-ROM

## **Viewer Software Types**

There are 2 types of viewers described below.

### Viewer for PC

When started up, this viewer displays as a separate window. The viewer is installed beforehand on the PC to be used. For installation details, please refer to "5. Install the Software" in this Chapter ( $\rightarrow$  P.2-11).



#### Viewer for Java

The viewer appears in the Web browser. You need to install Java VM beforehand. See the web site for more details.

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



## **Features of the Viewer Software**

- Pan, tilt and zoom control: You can control pan, tilt and zoom with the scroll bars.
- Backlight adjustment: You can brighten the image when it is dark due to backlight.
- Panorama window display: You can control the camera by clicking on the panorama window or by dragging the frame inside the window.
- Image saving and printing: You can save and print snapshots of live images.
- Audio transmission (Viewer for PC only): You can send audio to the VB-C50i/VB-C50iR.

## **Hardware and Software Requirements**

Please refer to "Hardware and Software Requirements" (→ P.1-4).

## Handling of Video and Audio

Please refer to "Introduction" (→ P.iii).



# **Basic Settings**

This chapter describes the basic settings for the VB-C50i/ VB-C50iR such as network connection, camera control, date and time setting and mail. Be sure to perform these settings after setting up.

\*The VB Administration Tools (→ P.4-2) described in Chapter 4 provide a convenient way to set view restrictions as well as presets.

## What Can I Do on Each of the Settings Pages?

Proceed to each of the settings pages from the Settings Title Page where you can perform various settings for the VB-C50i/VB-C50iR. The settings you can perform on each of the pages are shown below. For more details, see the reference pages.



## System and network

For setting administrator passwords and networks (Ethernet, network connection function)  $(\rightarrow$  P.3-5)

### Camera and Video

For setting video capture (image size and quality etc.), camera control (shutter speed, focus, home position and view restriction etc.), camera names (→ P.3-7)

### Preset

For setting Presets (best shot angle) and Preset Tour ( $\rightarrow$  P.3-12)

#### Server

For setting maximum number of clients, maximum connection time, restricting service time and HTTP, camera and audio servers ( $\rightarrow$  P.3-16)

### Access Control

For setting authorized user accounts and authorized/restricted host specification ( $\rightarrow$  P.3-20)

#### Date and time

For setting current camera time display, new camera time and time zone ( $\rightarrow$  P.3-23)

### Miscellaneous

For setting DNS (name server address), mail addresses for sending recorded pictures, external devices such as sensor and audio functions and LED ( $\rightarrow$  P.3-25)

### Administration Tools

For setting use of on-board file system/display of available capacity, display of recorded picture status and deletion of recorded pictures, miscellaneous (display of event log and current settings, restart, return to factory default settings) ( $\rightarrow$  P.3-28)



The VB Administration Tools described in Chapter 4 provide a convenient way to set view restrictions and presets.

## **Accessing the Settings Title Page**

The various settings on the VB-C50i/VB-C50iR are specified by using a browser to access Web pages on the VB-C50i/VB-C50iR. To begin with, access the **Settings Title Page**.



This manual uses the IP address 192.168.100.1 (the factory default setting) below as an example to describe the detail settings. Please enter the actual IP address that is set in your VB-C50i/VB-C50iR.

1. Use the browser to access http://192.168.100.1/admin/.



Enter the IP address which you set up in "Perform initial settings for the camera" ( $\rightarrow$  P.2-7).

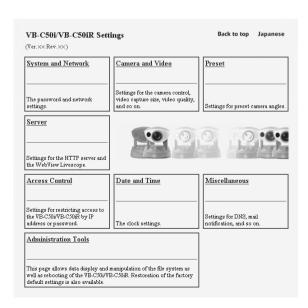
2. Enter the user name and password.

In the factory default settings, the user name is "root" and the password is "VB-C50i" ( $\rightarrow$  P.7-25).

\*The password for both the VB-C50i and the VB-C50iR is "VB-C50i". Be sure to change the password on the System and Network settings page (→ P.3-5).



## The Setting Title Page appears.



## **Settings Title Page**

From the Settings Title Page, you can move to each settings page, confirm the settings after changing, and save the changes to the VB-C50i/VB-C50iR's memory or restart.



- ① "Back to top" button
  - Click "Back to top" to move to the top page of the camera server.
- ② "Japanese" or "English" button Click this display to show the settings page in Japanese. The display then changes to "English" and when clicked, switches back to the English settings page.
- ③ "Save Setting" or "Save Setting and Reboot" button

Make changes on any of the pages, click the "OK" button and return to the Settings Title Page. At this stage, however, changes to the settings have not yet been sent to the VB-C50i/VB-C50iR. Click the "Save Setting" button and the changes are confirmed and sent to the VB-C50i/VB-C50iR. Where it is necessary to restart the VB-C50i/VB-C50iR to make the change, the "Save Setting and Reboot" button is displayed.

Where the setting values have not been changed, these 2 buttons are not displayed.

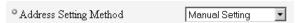
- 4 "Restore to the previous Setting" button
  - Click if you want to discard the changes you have made to the settings on each page. All changes are cancelled and return to the values before you made the change.
- ⑤ Each of the settings page titles Click to move to each settings page.



- Do not open multiple browser windows at the same time to change settings in parallel.
- Do not use the "Back" and "Forward" buttons in your browser to move between settings pages. Due to the effects of caching, there are possibilities that an old settings page will appear, settings will return to their original values, or unintended changes will occur.
- When you change the settings, you should always click the "Save Setting", or the "Save Setting and Reboot" button.



- When using the VB-C50i/VB-C50iR to record pictures, all recorded still pictures are deleted when the VB-C50i/VB-C50iR is rebooted.
- Those settings that require the VB-C50i/VB-C50iR to be restarted for the changes to take effect are indicated with a red mark.



## Setting Up the Administrator Password and Ethernet etc. (System and Network)



You can perform the following settings with System and Network.

- Root Account: For setting up passwords.
- Ethernet: For setting up IP addresses and other settings necessary for connection to the network.
- Connection Keeping: For setting up the function whereby packets are periodically transmitted and there is automatic dial-up by the router so that the connection with the network is not broken.

When you have made changes to the settings, click the "OK" button to return to the Settings Title Page. If you do not make any changes, click the "Cancel" button.

## **Root Account**



#### ① "Password"

Sets the password. Up to 8 ASCII characters can be used (spaces or printable characters). The default setting is "VB-C50i".

## (2) "Confirm Password" Confirms the password in the field above.



- For reasons of system security, You must change the administrator password. However, be sure to remember the password ( $\rightarrow$  P.7-25) so that you do not forget it.
- If you have forgotten the password, press the Reset switch and restore the factory default settings (→ P.7-24). However, note that all settings are returned to the factory default settings.

## **Ethernet**

Ethernet ▶HELP	
① • Address Setting Method	Manual Setting ▼
2° IP Address	192.168.100.1
3 ° Subnet Mask	255.255.255.0
4 Default Gateway Address	
(5) Maximum Transmission Unit	1500 (576 to 1500)
	▲ UP

## 1) "Address Setting Method"

Select an address setting method from "Auto Setting (DHCP)" or "Manual Setting". If you select "Auto Setting (DHCP)", you can use the values automatically obtained from the DHCP server for "IP Address", "Subnet Mask" and "Default Gateway Address". If you select "Manual Setting", directly enter values which suit your environment.

② "IP Address"

Enter a network interface-specific IP address.

3 "Subnet Mask"

Enter the subnet mask specified for the network to be connected.

(4) "Default Gateway Address"

Set this item when you want to connect to a different subnet within the Intranet or a wide area network such as the Internet.

(5) "Maximum Transmission Unit"

Enter the maximum transmission unit size to be sent at one time. There is normally no need to change this from 1500.

If you are using ADSL, you may experience increased data transmission efficiency if you slightly lower the value of the setting. When you are using Ethernet, maintain the value at 1500.



- Contact the network administrator for the IP address, subnet mask and default gateway address settings.
- Take particular care with the IP address, subnet mask and default gateway address settings. If errors are found in any of these items, you may be completely unable to access the VB-C50i/VB-C50iR via Ethernet and it may only be possible to recover the problem by using the Initial Setup Tool (→ P.2-7) to correct the error.

## **Connection Keeping**

Con	nection Keeping ▶HELP		
$\bigcirc$	Send packet regularly		
2	<sup>o</sup> Target IP Address		
3	O Interval (min.)	1	(1 to 60)
	* In order to maintain the connection with a	network, ICMP echo packet	is transmitted periodically.
			▲ UP

1 "Send packet regularly"

Check to enable this function.

2 "Target IP Address"

Specify where the packet should be sent.

3 "Interval (min.)"

Specify the interval at which a packet should be sent from 1 to 60 (min.).

## Setting Camera Control, Image Size and Quality (Camera and Video)



You can perform the following settings with Camera and Video.

- Video Capture: For setting image size and quality.
- Camera Control: For setting the camera shutter speed, focus, home position and view restrictions.
- Camera Names: Enter camera names. A camera name is required when you use an external camera or the VK-64.

When you have made changes to the settings, click the "OK" button to return to the Settings Title Page. If you do not make any changes, click the "Cancel" button.

## Video Capture

) V	ideo Capture Size	
	Video Transmission	Medium Size ▼
	Motion Detection	Small Size 🔻
	Picture Recording	Medium Size ▼
<b>2</b> v	ideo Quality (Q-Factor)	
	Small Size (160x120)	Q = 50 🔻
	Medium Size (320x240)	Q = 50 🔻
	Large Size (640x480)	Q = 50 🔻
3 °	Interlace Mode	Weave (Interlace)
<b>4</b> □ °	Use External Video Input	
_		

## ① "Video Capture Size"

Select an image size for "Video Transmission", "Motion Detection" and "Picture Recording". For "Motion Detection", select either "Medium Size" or "Small Size" as the image size.

\*Please refer to P.1-10 to confirm whether your VB-C50i/VB-C50iR is PAL model or NTSC model.

Large Size:  $640 \times 480$  (NTSC),  $768 \times 576$  (PAL) Medium Size: 320 × 240 (NTSC), 384 × 288 (PAL)

Small Size:  $160 \times 120$  (NTSC),  $192 \times 144$  (PAL)

### 2 "Video Quality (Q-Factor)"

Select a value from 10-100 (in 10 levels). The greater the value, the better the quality. However, since data size will also be larger, higher-quality pictures may lower the frame rate. Also, if you select "Not used", you cannot set that size in "Video Capture Size".

### 3 "Interlace Mode"

Select either "Weave (Interlace)" (for subjects which move a little) or "Bob (Non-Interlace)" (for subjects which move a lot), according to the range of the movement.

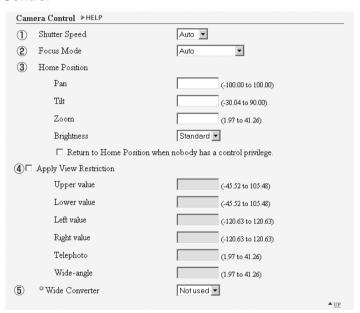
You can obtain high-resolution video if you set "Video Capture Size" to "Large Size". However

if the subjects move quickly and sharply, you may encounter comb-shaped blurs in the video. "Bob" is more effective for quickly moving subjects.

### 4 "Use External Video Input"

You can use an external video input connected to the Multi-Terminal Module (VB-EX50) with the switching method ( $\rightarrow$  P.1-11).

## Camera Control



## ① "Shutter Speed"

Sets the camera shutter speed.

#### 2 "Focus Mode"

Sets the focusing mode for the camera.

Select the focusing mode for the camera from "Auto" (for auto focus), "Auto (for domes)" (for the camera used in combination with a camera dome so that auto focus does not focus on the camera dome wall surface) or "Fixed at infinity" (for focusing on infinity).

\* "Auto (for domes)" and "Fixed at infinity" is not available if you configure the Night Mode settings (→ P.4-69).



If dust or rain adheres to the dome, focusing may occur on the dome wall. Please place the dome wall and the camera as closely together as possible when using.

### (3) "Home Position"

This is the standard camera position. When this is specified, the camera angle is moved to its home position if there is no request for control privileges.

#### "Pan"

Sets the pan position of the camera.

"Tilt"

Sets the tilt position of the camera.

#### "Zoom"

Sets the value for the camera's angle of zoom.

### "Brightness"

Sets the target value for the camera's auto exposure feature. Select "Brighter" if the picture is too dark due to backlight or other factors.

## "Return to Home Position when nobody has a control privilege"

The camera is moved to its home position if there is no request for a control privilege.

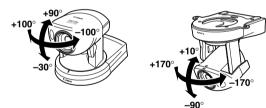


Do not attempt to manually change the camera head angle. If the camera head is accidentally moved by hand or other objects touching it, be sure to restart the VB-C50i/VB-C50iR by turning the power supply OFF then ON again.



Tip

The operating range of the camera heads on the VB-C50i/VB-C50iR is shown below.



## 4 "Apply View Restriction"

If you check the "Apply View Restriction" option, the settings below are enabled. Use this setting to prevent clients from seeing certain camera angles. **Using the VB Administration Tools is a convenient way to set the view restrictions** ( $\rightarrow$  P.4-12).

## "Upper value, Lower value, Left value, Right value"

Sets the extent of the field of view provided to users. (Specify settings so that the upper value is greater than the lower value and the left value is less than the right value.)

### "Telephoto, Wide-angle"

Sets the zoom angles provided to users. (Specify settings so that the telephoto setting is less than or equal to the wide-angle setting.)

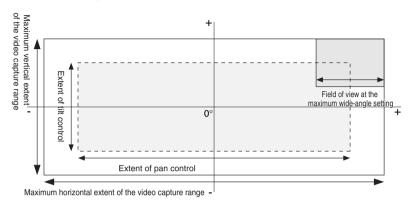
## (5) "Wide Converter"

When you have attached a wide converter to the camera, be sure to select "Used". This setting is only available for the VB-C50i.

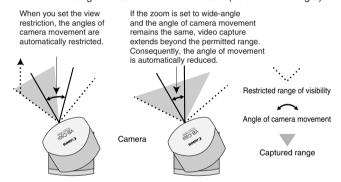
<sup>\*</sup> When the Wide Converter is set to "Used", the infrared light cannot be used.



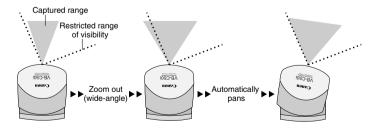
Controllable range and shootable range are shown below.



Pan and tilt range varies with the zoom ratio (field of view angle).

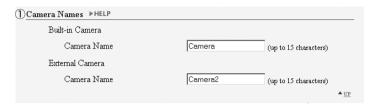


If the visible range is exceeded because the zoom is set to wide range, the camera angle (pan, tilt) will be adjusted automatically.



- If the visible range is restricted, the zooming range may also be restricted.
- When a view restriction is set, areas outside the restrictions may be captured momentarily if the camera is controlled close to the restriction limits.

## **Camera Names**



## ① "Camera Name"

Used in the camera selection box on the viewers ( $\rightarrow$  P.1-4). This setting is required.

## **Presetting Best Shot (Preset)**

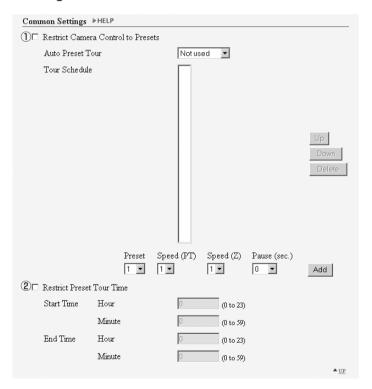


You can perform the following settings with Preset.

- Common Settings: For setting the tour schedule of present position.
- Preset 1-20: Register as many as 20 best shot angles as preset positions.

When you have made changes to the settings, click the "OK" button to return to the Settings Title Page. If you do not make any changes, click the "Cancel" button.

## **Common Settings**



## (1) "Restrict Camera Control to Presets"

Camera control by using the Viewer for PC and the Viewer for Java can be restricted to the preset angles specified in Preset 1-20.

#### "Auto Preset Tour"

Select a Preset Tour setting from the following options.

### "Not used"

Preset Tour does not operate.

#### "For Viewers"

Operates if any of the Viewer for Java. Viewer for PC or Admin Viewer is connecting.

### "Always"

Preset Tour always operates.

### "Tour Schedule"

Select the Preset number you want to set up in the Tour Schedule from "Preset" below, and after setting "Speed (PT)", "Speed (Z)" and "Pause (sec.)", click the "Add" button and the Presets are listed. You can also set up the start time and end time of the Preset Tour.

### "Up" button and "Down" button

Select a Preset in the list, click the "Up" or "Down" button to change the order of the Preset Tour.

### "Delete" button

Delete the selected Preset

### "Preset"

Select the number of the Preset you want to set up.

### "Speed (PT)"

Set up the camera speed when panning and tilting. The larger the numeric value, the faster the camera will move.

### "Speed (Z)"

Set up the camera speed when zooming. The larger the numeric value, the faster the camera will move.

## "Pause (sec.)"

Set the length of time the camera will pause in the Preset position, from 0-120 seconds in units of five seconds.

### "Add" button

Adds the Preset you have set to the Tour Schedule.

#### (2) "Restrict Preset Tour Time"

Select to set the start time and end time of the Tour Schedule.



- Even if you have set Auto Preset Tour to "For Viewers" or "Always", the Preset Tour will not work while you are controlling the camera with the Viewer for PC or the Admin Viewer etc.
- If "Restrict Camera Control to Presets" is selected, the presets can be displayed alone without displaying the camera control GUI on the Viewer for Java.

## Preset 1-20

1 Application	C Picture Recording only
	<ul> <li>Picture Recording and Video Transmission</li> </ul>
2 Preset Name	(up to 15 characters)
3 Camera Parameter	
Pan	(-100.00 to 100.00)
Tilt	(-30.04 to 90.00)
Zoom	(1.97 to 41.26)
Brightness	Standard 🔻
	<u> ▲</u> <u>u</u>
Preset 2 ▶HELP	
Application	C Picture Recording only
	<ul> <li>Picture Recording and Video Transmission</li> </ul>
Preset Name	(up to 15 characters)
Camera Parameter	
Pan	(-100.00 to 100.00)
Tilt	(-30.04 to 90.00)
Zoom	(1.97 to 41.26)
Brightness	Standard 🔻

## ① "Application"

Use these options to specify whether this preset can be used only for picture recording or is also made available in the viewers. If it is also provided in the viewers, always specify the preset name.

## 2 "Preset Name"

Enter a name consisting of up to 15 alphanumeric characters.

### 3 "Camera Parameter"

Set the video capture settings to be provided.

## "Pan"

Sets the pan position of the camera.

### "Tilt"

Sets the tilt position of the camera.

## "Zoom"

Sets the value for the camera's angle of zoom.

## "Brightness"

Sets the target value for the camera's auto exposure feature. Select "Brighter" if the picture is too dark due to backlight or other factors.



Changes in the preset settings are not applied to the viewer while it is connected.



You can make preset settings more easily with the VB Administration Tools. Please use the VB Administration Tools for the settings ( $\rightarrow$  P.4-18).

## **Setting Up the HTTP, Camera and Audio Servers (Server)**

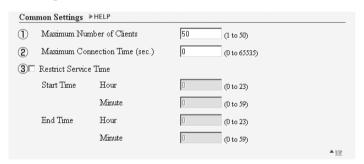


You can perform the following Settings with Server.

- Common Settings: For setting up the environment where users can connect to the VB-C50i/VB-C50iR.
- HTTP Server: For setting web page distribution and managing the VB-C50i/ VB-C50iB
- Camera Server: For setting up the viewing of video from the VB-C50i/VB-C50iR.
- Audio Server: For setting up audio-related items.

When you have made changes to the settings, click the "OK" button to return to the Settings Title Page. If you do not make any changes, click the "Cancel" button.

## **Common Settings**



## 1) "Maximum Number of Clients"

Set the maximum number of clients who can connect to the VB-C50i/VB-C50iR at the same time, up to 50.

- 2 "Maximum Connection Time (sec.)"
  - Set the length of time for each client can connect to the VB-C50i/VB-C50iR, in units of seconds.
- (3) "Restrict Service Time"

Select to set the length of time for which a user can connect to the VB-C50i/VB-C50iR by entering the start time and end time.



If you want to restrict time to distribute video, use "Restrict Service Time".

## **HTTP Server**

HTTP Server ▶HELP	
① °HTTP Port	80 (1 to 65535)
② Global Address for Web Pages	IP Address ▼
IP Address	
Port Name	(up to 15 characters)
	▲ <u>UP</u>

## ① "HTTP Port"

Sets the TCP port number for the HTTP. Enter a value between 1 and 65535. The default setting is 80.

## 2 "Global Address for Web Pages"

If a private address has been set in the VB-C50i/VB-C50iR and you want to use the router's NAT functions to have a fixed global address for the VB-C50i/VB-C50iR (→ P.5-26), enter a global address here, and this will let you view sample pages ( $\rightarrow$  P.5-6).

If "IP Address" is selected, enter the IP address specified in "IP Address". If "Host Name" is selected, the host name specified in "DNS" in "Miscellaneous" is used. Perform any necessary settings in "DNS" ( $\rightarrow$  P.3-25).

## Camera Server

30	(1 to 65535) (0.1 to 30)
1	
	(0 to 10)
50	(0 to 50)
20	(1 to 3600)
500	(0 to 10000)
21	D

## 1 "Video Transmission Port"

Sets the TCP port number for the video transmission protocol. Enter a value between 1 and 65535. The default setting is 65310. Normally, there is no need to change this setting.

## 2 "Camera Control Port"

Sets the TCP port number for the camera control protocol. Enter a value between 1 and 65535. The default setting is 65311. Normally, there is no need to change this setting.

## 3 "Maximum Frame Rate (fps)"

Sets the maximum number of frames captured per second. The maximum frame rate is 30.0 fps (NTSC)/25.0 fps (PAL) and enter a number between 0.1 and 30.0 (NTSC)/25.0 (PAL). \*Please refer to P.1-10 to confirm whether your VB-C50i/VB-C50iR is PAL model or NTSC model.

## 4 "Maximum Transmission Rate (Mbps)"

Sets the upper limit of the volume of data to be transmitted in one second. This function is used to reduce the load on the network. The maximum is 10Mbps and enter an integer of 0 to 10Mbps. 0 is limitless.

## 5 "Control Queue Length"

Sets the length of the queue when multiple clients are waiting for control privileges under the viewer.

Enter a value between 0 and 50. The maximum number is 50. When set to "0", only the Admin Viewer is permitted to control the camera.

## 6 "Camera Control Time (sec.)"

Sets the maximum time for which camera control privileges can be maintained under the viewer. Enter a value between 1 and 3600.

## ① "Camera Stabilization Time (msec.)"

When the GetStillImage command ( $\rightarrow$  P.5-25) has been requested, this setting specifies the delay to allow the camera to stabilize before a still picture is captured. Enter a value between 0 and 10000. The maximum delay is 10000 milliseconds.

## **Audio Server**



## ① "Audio Reception"

Set "Audio Reception" to "ON" to receive audio which has been sent from the Admin Viewer and output to the speaker installed on the Multi-Terminal Module ( $\rightarrow$  P.1-11).

## 2 "Output Volume"

Set the volume of output audio in a range from 1-100. The larger the numeric value, the louder the audio will be.



- You can connect a speaker to the VB-C50i/VB-50iR using the Multi-Terminal Module (VB-EX50).
- When receive audio, please read carefully "Usage Notice of Audio" (→ P.iii).

## Audio Reception Output Volume LAN Internet

## **Setting User Access Privileges (Access Control)**

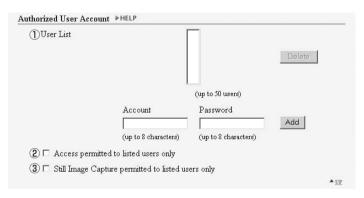


You can perform the following settings with Access Control.

- Authorized User Account: Register users who may connect to the VB-C50i/VB-C50iR.
- Authorized/Restricted Host Specification: Control whether a specific host is to have access or not.

When you have made changes to the settings, click the "OK" button to return to the Settings Title Page. If you do not make any changes, click the "Cancel" button.

## **Authorized User Account**



### ① "User List"

Only users registered in this list are permitted to connect to the VB-C50i/VB-C50iR. You can register a maximum of 50 users in addition to the user name (root) set as the factory default setting.

#### "Delete"

Select a user from the User List and click the delete button to remove the user from the list. "Add" / "Change"

You can add authorized users to the User List by entering their account names and passwords and then clicking the [Add] button. The [Add] button

changes to [Change] when you select an authorized user. You can change



the password by entering a new password, and then clicking the [Change] button.

## 2 "Access permitted to listed users only"

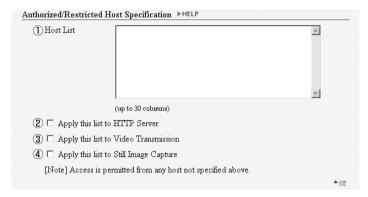
When this option is checked, only users registered in the User List are permitted to connect to the VB-C50i/VB-C50iR.

- Access using the Viewer Ver.3.1 or before and WebView Livescope MV Ver.1.0 is prohibited.
- 3 "Still Image Capture permitted to listed users only"

When this option is checked, only users registered in the User List are permitted to capture still images.

It is useful when distributing video as a still picture ( $\rightarrow$  P.5-24).

## Authorized/Restricted Host Specification



## ① "Host List"

In this Host List, you can in detail whether of how access from the hosts is permitted or denied. See the next page for the description format.

## 2 "Apply this list to HTTP server"

When this is selected, the Host List is applied to the host that can access the HTTP server. In this case, control extends also to the Viewer for Java, etc. Use this when you want to restrict access not only from the viewer but also to the Web page.

## (3) "Apply this list to Video Transmission"

Select to apply the Host List to a host who may have access to the WebView Livescope server. Use "Apply this list to Video Transmission" if you want to restrict access from the Viewer for Java and the Viewer for PC.

## 4 "Apply this list to Still Image Capture"

When this is selected, the Host List is applied to the host that can capture still images.



- If you do not make a Host List, access is permitted to any host.
- If the Host List provided prohibits access for all hosts, the Host Restriction function is disabled and access is permitted to all hosts.
- To prohibit access over HTTP connection via a proxy server, the address of the proxy server must be set.
- If you set the host restriction incorrectly, access to the settings page itself may be denied. In this event, the problem can only be recovered by restoring the factory default settings.



The Host Restriction function applies to hosts running client applications such as viewer. Access restrictions are imposed using a list made up of one or more entries written using the format described below.

## **Listing Format**

[!] addr [-addr2]

- "addr" is written in standard IP address format.
- Because the IP addresses in the "addr" and "addr2" parameters define the range of IP addresses, if an IP address A is higher than "addr" and lower than "addr2", A is included in the addr-addr2 range. The addr2 parameter can be omitted, in which case it is taken to be the same value as addr.
- For a host IP address A for which access permission is to be authorized or restricted, the first entry that includes A is requested from the top of the list of authorized/restricted hosts. If the entry obtained begins with "!", access is denied. If not, access is authorized.
- Redundant or contradictory entries included in the list are automatically deleted.
- If the given address does not belong to any of the entries, access is authorized.

## **Listing Guidelines**

If the list of authorized and restricted hosts contains an error, access that was originally permitted may subsequently be denied. To avoid this problem, compile the lists very carefully using the examples below as a guide.

## Example 1: To prohibit access from a host

!172.20.0.0

Access from the host with an IP address of 172.20.0.0 is prohibited.

## Example 2: To prohibit access from hosts in a given address range

!172.20.0.0-172.20.0.20

Access from hosts with IP addresses from 172.20.0.0 to 172.20.0.20 is prohibited.

## Example 3: To authorize access from hosts in a given address range while prohibiting access from other hosts

172.20.0.10-172.20.0.12

10.0.0.0-255.255.255.0

Access is only authorized from hosts with IP addresses from 172.20.0.10 to 172.20.0.12.

## Example 4: To prohibit access from hosts in a given address range while permitting access from one host within that range

172.20.0.10

!172.20.0.0-172.20.0.20

Access from hosts with IP addresses from 172.20.0.0 to 172.20.0.20 is prohibited, except for the host at 172.20.0.10, from which access is permitted.

## Example 5: To prohibit access from hosts in a given address range while permitting access from a range of hosts within that range

172.20.0.10-172.20.0.15

!172.20.0.0-172.20.0.20

Access from hosts with IP addresses from 172.20.0.0 to 172.20.0.20 is prohibited, except for the hosts with addresses between 172.20.0.10 and 172.20.0.15, from which access is permitted.

## **Setting the Date and Time (Date and Time)**



You can perform the following settings with Date and Time.

- Current Camera Time: Displays the time set up for the camera.
- New Camera Time: For setting up the time on the VB-C50i/VB-C50iR.
- Time Zone: Select the appropriate time zone from the list.

When you have made changes to the settings, click the "OK" button to return to the Settings Title Page. If you do not make any changes, click the "Cancel" button.

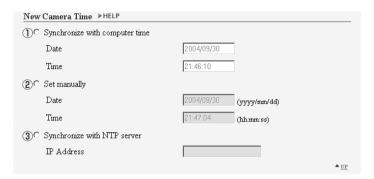
## **Current Camera Time**



- ① "Date" and "Time" Displays the date and time currently set on the VB-C50i/VB-C50iR.
- ② "Time Zone"

The time difference with Greenwich Mean Time is displayed.

## **New Camera Time**



## ① "Synchronize with computer time"

Sets to the date and time of the PC currently accessing the VB-C50i/VB-C50iR via a Web browser.

## 2 "Set manually"

Select this item when the date and time are to be manually entered. In the Date field, enter the year, month and day in yyyy-mm-dd format; in the Time field, enter the time in hh:mm:ss 24-hour format.

For example, for January 23, 2004, 1:23:04 p.m., enter "2004/01/23" and "13:23:04".

## 3 "Synchronize with NTP server"

Sets to the date and time of the NTP server when the IP address of an NTP server has been entered.



Even if you have selected "Synchronize with NTP server", the data and time will not change if the VB-C50i/VB-C50iR cannot connect with the NTP server because, for example, the IP address for the NTP server is not correct.

## Time Zone



## ① "Time Zone"

Select the time difference with Greenwich Mean Time from the list.

## Setting Up Name Server Address and Mail etc. (Miscellaneous)



You can perform the following settings with Miscellaneous.

- DNS: Register the Name Server Address and Host Name for registering host names such as Mail Server Host.
- Mail: For setting up the mail addresses which are to receive recorded pictures and log messages.
- External Device Names: For setting up the names for the external devices to be used with WebView Livescope MV etc.
- LED: For setting the LED on the VB-C50i/VB-C50iR to turn on or off.

When you have made changes to the settings, click the "OK" button to return to the Settings Title Page. If you do not make any changes, click the "Cancel" button.

## **DNS**

DNS ▶HELP	
Name Server Address 1	
Name Server Address 2	
2   Register Host Name	
Host Name	(up to 63 characters)
	▲ UP

### (1) "Name Server Address 1-2"

Enter the name server address you want to register. If you are only registering one, leave the field "Name Server Address 2" blank.

## 2 "Register Host Name"

Select and enter the host name you want to register. You can register a host name in "Name Server Address 1-2".



If you are operating the VB-C50i/VB-C50iR with "Auto Setting (DHCP)" (→ P.3-6), it is useful to register the "Register Host Name" setting. Settings are required before being able to register in the DNS server. For information about DNS server settings, please see your system administrator.

## Mail

① Mail Server Host	(up to 63 characters)
2 Sender's(From) Mail Address	(up to 63 characters)
3 Recipient(T∘) Mail Address	(up to 63 characters)
4) 🗆 POP before SMTP	
User Name	(up to 31 characters)
5 - Password	(up to 31 characters)
POP Server	(up to 63 characters)
	▲ UP

① "Mail Server Host"

Specifies the SMTP server.

② "Sender's (From) Mail Address" Specifies the mail sender.

③ "Recipient (To) Mail Address" Specifies the mail recipient.

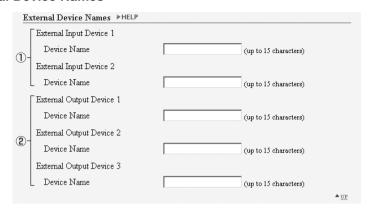
4 "POP before SMTP"

Set up if the mail host server requires POP user authentication.

(5) "User Name" and "Password" Specify the settings in "User Name" and "Password" necessary for authentication.

⑥ "POP Server"
Sets up the POP server.

## **External Device Names**



## 1 "External Input Device 1-2"

"Device Name"

To distinguish between the different external devices connected to the Multi-Terminal Module, be sure to enter a device name. Enter a device name consisting of up to 15 alphanumeric characters.

## 2 "External Output Device 1-3"

"Device Name"

To distinguish between the different external devices connected to the Multi-Terminal Module, be sure to enter a device name. Enter a device name consisting of up to 15 alphanumeric characters.

## **LED**



## 1) "LED Setting"

Select the status of the LED located on the front of the camera from "Blinks during Communication", "Steady Green LED", "Steady Orange LED", "Steady Red LED" and "Turn the LED OFF". If the image is obstructed by the reflected LED, select "Turn the LED OFF".

## **Setting Up the Administration Tools (Administration Tools)**



### Administration Tools

CANCEL

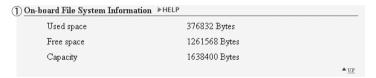
On-board File System Information | Recorded Picture Information and Manipulation | Miscellaneous

You can perform the following settings with the Administration Tools.

- On-board File System Information: Displays the status of VB-C50i/VB-C50iR's memory.
- Recorded Picture Information and Manipulation: Displays the status of pictures recorded in the VB-C50i/VB-C50iR and deletes recorded pictures.
- Miscellaneous: Confirm settings for the VB-C50i/VB-C50iR and initialization.

If you do not make any changes, click the "Cancel" button.

## On-board File System Information



## ① "On-board File System Information"

The On-board File System displays the used space, free space and capacity (used space + free space) of VB-C50i/VB-C50iR's memory in bytes.



Since the work area for the VB-C50i/VB-C50iR is included in the free space on the on-board file system, files may not be created when the free space becomes approximately 100KB (→ P.5-8).

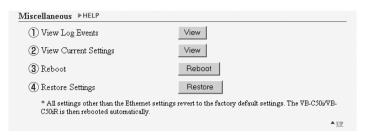
## **Recorded Picture Information and Manipulation**



## ① "Recorded Picture Information and Manipulation"

This section displays the status of recorded picture processing and the number of recorded pictures. Also, with the "Delete" button which deletes recorded pictures, you can delete all pictures which have been recorded.

## Miscellaneous



## ① "View Log Events"

Click the "View" button to see the historical log files of the VB-C50i/VB-C50iR's operation, such as connection with viewers, etc.

- 2 "View Current Settings" Displays a list of current settings.
- 3 "Reboot" Reboots the VB-C50i/VB-C50iR.
- 4 "Restore Settings"

All but the password setting, ethernet address setting method, IP address, subnet mask and default gateway of the VB-C50i/VB-C50iR will be restored to the factory default settings. Click "Restore"-"OK" buttons and the VB-C50i/VB-C50iR will be rebooted automatically.



Do not turn the VB-C50i/VB-C50iR power off while the Restoring operation. If you turn the power off, all settings of the unit restore to the factory default settings.



- We recommend that you make a note of current server settings before you restore the default settings in "Restore Settings" ( $\rightarrow$  P.7-25).
- While the Reset switch can also be used to restore the factory default settings, note that this resets all the settings ( $\rightarrow$  P.7-24).



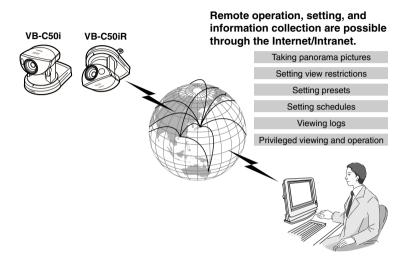
# **VB Administration Tools**

Chapter 4 describes practical ways of operating the VB-C50i/ VB-C50iR using the VB Administration Tools to create panoramas, set view restrictions, set presets and schedules, view logs and use the Admin Viewer. Review the necessary basic settings in Chapter 3 before proceeding to Chapter 4.

\* Although view restrictions and presets can be set by following the procedures described in Chapter 3, the VB Administration Tools are more visual-based and easy to use.

## **Overview of VB Administration Tools**

VB Administration Tools comprises "VBAdmin Startup Panel", "Panorama Creation Tool", "View Restriction Tool", "Preset Setting Tool", "Schedule Setting Tool", "Log Viewer" and "Admin Viewer" applications. Operations such as setting the VB-C50i/VB-C50iR or viewing pictures from a remote location with special privileges, checking operating status or obtaining logs are easily performed through the Internet or Intranet.



## **Installing the VB Administration Tools**

If you performed the Easy Installation in "5. Install the Software" in Chapter 2 "Setting up" ( $\rightarrow$  P.2-11), the VB Administration Tools have already been installed. If this is the case, a VB Administration Tools shortcut icon has been created on the desktop of your PC. A shortcut is also created in the same way if you select "Programs" from the "Start" menu and then "WebView Livescope". If the VB Administration Tools have not yet been installed, see page 2-11.



VB Administration Tools cannot be installed or operate normally in machines where the VB-C50i/VB-C50iR-related applications listed below have been installed. Please uninstall these applications before installing VB Administration Tools:

- VB Administration Tools Ver.1.0/1.1
- WebView Livescope Helper Viewer Ver. 3.1 or earlier
- WebView Livescope Camera Server
- WebView Livescope Manager
- WebView Livescope MV Manager Ver. 1.0
- WebView Livescope MV Station Ver. 1.0

# **VBAdmin Startup Panel (→ P.4-5)**

This is the main panel of VB Administration Tools. The tools are started up from this panel.

Install VB Administration Tools first from the supplied CD-ROM.



# Panorama Creation Tool (→ P.4-7)

This tool is used to take and create panorama pictures displaying the full view of the area photographed by the VB-C50i/VB-C50iR. When making settings for view restriction and presets, you can see at a glance what part of the total area the set area occupies. \* Not available with the VB-C50Fi.



# **View Restriction Tool (→ P.4-12)**

This tool enables easier, more visual setting of view restrictions. Restrictions can be set by operating the mouse while referring to panorama previews.



# Preset Setting Tool (→ P.4-18)

This tool enables easier, more visual setting of camera preset positions and a home position. Presets can be set by operating the mouse while referring to panorama previews. You can also enter settings for a Preset Tour with which you can tour and monitor two or more presets within a specified start and end time.



# Schedule Setting Tool (→ P.4-27)

With the Schedule Setting Tool you can set up the following services to perform automatically on a specified day or time.

- Timer: Performs audio playback and records the still image into the VB-C50i/VB-C50iR at specified time.
- Motion Detection: Detects changes in the image and performs video recording automatically. The camera can also automatically track a moving object. Also, an audio file can be registered and played back when motion is detected.
- Night Mode: Takes shots in dark conditions.
- External Device input: Records video and plays sound when there is a reaction by an external device such as a sensor.
- External Device Output: Automatically operates an external device such as a light by a time setting.

You can set the time and content of a Service on the calendar in the Schedules Setting display screen.

# | Continue | Continue

# Log Viewer ( $\rightarrow$ P.4-61)

This tool enables viewing of operation status logs that are output to the VB-C50i/VB-C50iR.



# Admin Viewer ( $\rightarrow$ P.4-64)

This viewer is aimed at administrators of the VB-C50i/VB-C50iR. It has special privilege functions not available in the Viewer for PC or Viewer for Java, such as exclusive rights of camera control, operation of external devices and motion detection. You can use it when setting presets and view restrictions etc.



# **Starting Up VB Administration Tools**

To Start Up...

1. Double-click the "VB Admin Tools" desktop icon or select "VB Admin Tools" from the "Start" menu.

Starting up from the desktop icon



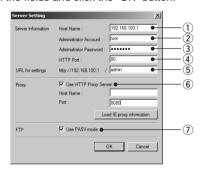
VB Admin Tools

Starting up from the "Start" menu



2. The Server Setting dialog box appears.

To use VB Administration Tools, it must first be connected to the VB-C50i/VB-C50iR. Enter the required information in the fields and click the "OK" button.



1 Host Name ( $\rightarrow$  P.3-6)

Specify the IP address or host name of the VB-C50i/VB-C50iR.

(2) Administrator Account

Enter the administrator account "root" for the VB-C50i/VB-C50iR.

 $\bigcirc$  Administrator Password ( $\rightarrow$  P.3-5)

Enter the administrator password that has been set in the VB-C50i/VB-C50iR. (The default setting is "VB-C50i" for both the VB-C50i and VB-C50iR.)

**④** HTTP Port (→ P.3-17)

Enter the HTTP port number that has been set in the VB-C50i/VB-C50iR. (The default setting is 80.)

5 URL for settings

Enter "admin" as the administrator URL. (This cannot be changed.)

6 Proxy

\*Please consult with the network administrator for proxy settings.

"Use HTTP Proxy Server"

Check this item if connecting to the VB-C50i/VB-C50iR via a proxy server.

"Host Name"

Specify the host name or IP address of the proxy server.

• "Port"

Enter the port number of the proxy server. (The default setting is 8080.)

"Load IE proxy information"

Click to automatically collect proxy server information set in Internet Explorer.

#### (7) **FTP**

To use the Panorama Creation Tool and the Log Viewer of the VB Administration Tools, it is necessary to connect to the VB-C50i using FTP to perform various settings. Select either "PASV mode" or "PORT mode".

#### "Use PASV mode"

Check this item if selecting the PASV mode. Normally, there is no need to change this setting. Clear the check box if using the PORT mode.

#### 3. The VBAdmin Startup Panel starts up.

The six tools---"Panorama Creation Tool", "View Restriction Tool", "Preset Setting Tool", "Schedule Setting Tool", "Log Viewer" and "Admin Viewer"---can be started up from the Startup Panel by clicking on each button.



If the connection is broken after the VB Admin Startup Panel has started up, choose Connect from the File menu. The Server Setting dialog box then appears.

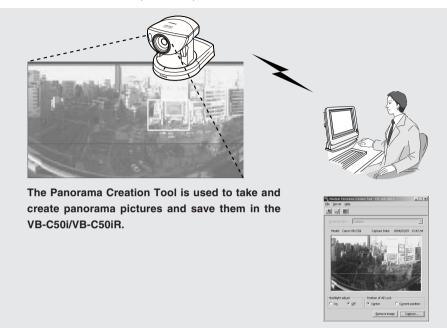




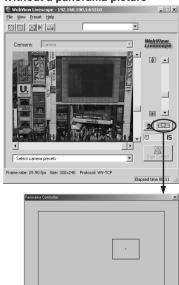
- The Panorama Creation Tool, View Restriction Tool, Preset Setting Tool and Schedule Setting Tool cannot be started up simultaneously. Log Viewer and Admin Viewer can be started up at the same time.
- If the connection to the VB-C50i/VB-C50iR is made through a proxy server, the Panorama Creation Tool, Log Viewer and Admin Viewer cannot be used.
- If you have connected to network camera servers excluding the VB-C50i/VB-C50iR, some parts of the display of the VB Administration Tools start panel are different from the above example.

# Panorama Creation Tool \*Not available with the VB-C50Fi.

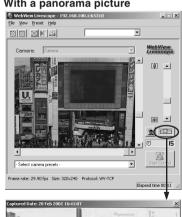
The Panorama Creation Tool is used to take and create panorama pictures from the VB-C50i/ VB-C50iR. Once created, the panorama pictures can be viewed when accessed from the viewer.



#### Without a panorama picture

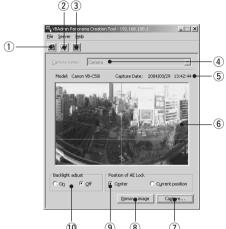


#### With a panorama picture



# Panorama Creation Tool Display Screen

An overview of the functions of the GUI displayed when the Panorama Creation Tool starts up is shown below.



- "Display Connect Information" button
   Displays the VB-C50i/VB-C50iR's connection information in a dialog box.
- 2 "Reload Camera Information" button Loads camera information and panorama information. If VB-C50i/VB-C50iR settings were changed after this tool was started up, this button can be used to get the latest information.
- 3 "Update Panorama Image" button Sends panorama pictures to the VB-C50i/VB-C50iR and reloads them. <u>After taking a panorama</u> shot, be sure to click this button.
- (4) Camera Selection box

In this selection box, cameras for capturing panorama pictures can be changed or selected from the cameras connected to the VB-C50i/VB-C50iR.

5 Camera model and captured date display

Displays the model of camera currently connected and the date the panorama picture was taken, if it has been captured.

6 Panorama picture display

Shows the panorama picture that was captured.

7 "Capture" button

Captures panorama pictures.

8 "Remove image" button

Deletes panorama pictures.

9 Position of AE Lock switching

Switches AE lock position between "Center" and "Current position". The AE Lock function captures pictures based on the brightness of the selected position.

10 Backlight adjust switching

Adjusts backlight when "On" is selected. When switched on, it is effective on images that are dark due to backlight.



Since the range that can be captured varies with the type of camera, the display ranges of the panorama pictures are different.



VB-C50i panorama picture



VB-C50iR panorama picture

# **Capturing Panorama Pictures**



The entire panorama picture area is displayed during capturing. If the VB-C50i/ VB-C50iR is accessed from the viewer and pictures are viewed, even when view restrictions ( $\rightarrow$  P.3-8, 4-12) have been set, there is a possibility that third parties that were originally not intended to see the pictures may see them. Please keep this sufficiently in mind when capturing and displaying panorama pictures.

#### To Capture...

1. In the Camera Selection box, select the camera to be used for capturing, select the AE lock position and whether or not to use backlight adjustment, then click the "Capture" button.



#### 2. Capturing starts.

To stop capturing while it is in progress, click the "Stop" button.



# 3. When capturing ends and the picture is satisfactory, click the "OK" button.

Panorama creation can be discarded, or the AE lock position or backlight adjustment settings can be changed by clicking the "Cancel" button. When clicked, the captured picture is discarded and the initial screen returns ( $\rightarrow$  P.4-8).

To capture the picture again, click the "Recapture" button. Or, a square section in the displayed grid can be captured again by double-clicking on that section.



# **Updating/Deleting Panorama Pictures**

When capturing ends, the panorama picture is reflected when it is sent to the VB-C50i/VB-C50iR and loaded. Update is also necessary when a panorama picture is deleted.

#### To Update...

#### 1. Click the "Update Panorama Image" button.

Or choose "Update Panorama Image" from the "Server" menu.

When the panorama picture is updated, the VB-C50i/VB-C50iR automatically restarts and the connection with VB Administration Tools is cut. A dialog box asking whether or not to reconnect to the VB-C50i/VB-C50iR appears after the VB-C50i/VB-C50iR restarts. Reconnection occurs when the "OK" button is clicked. You can exit the Panorama Creation Tool while still connected or without reconnecting to the VB-C50i/VB-C50iR.



#### To Delete...

1. Click the "Remove image" button and then the "Update Panorama Image" button.

The panorama picture saved in the VB-C50i/VB-C50iR is deleted.



# Reconnecting

Reconnections are made when a connection with the VB-C50i/VB-C50iR has been cut.

#### To Reconnect...

bar.



## Opening a Panorama Picture from a Picture File/Saving a Panorama Picture as a Picture File

You can open a picture file as a panorama image as well as save a panorama picture you have taken as a picture file. In both cases, only the JPEG format is supported.

#### To Open from a Picture File...

1. Choose "Open" from the "File" menu bar. When the dialog box appears, select the picture file you want to use.



To Save...

1. Choose "Save" from the "File" menu bar. When the dialog box appears, select the folder where the file is to be saved and enter the file name.

# **Displaying Connection Information**

Connection information during connection with the VB-C50i/VB-C50iR can be displayed.

#### To Display...

1. Choose "Connect Information" from the RVRAdmin Penorama C "Server" menu bar.

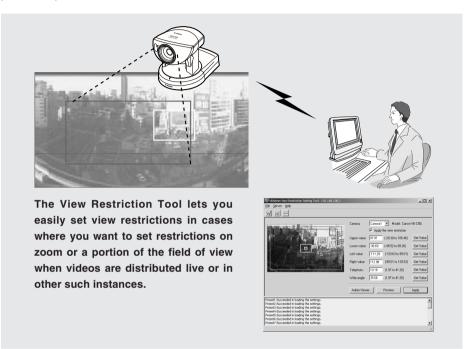
A dialog box showing the connection information appears.

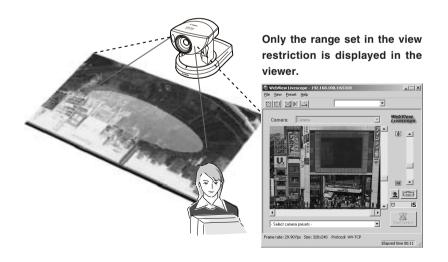
The IP address that was set in the VB-C50i/VB-C50iR is displayed in "Host name" ( $\rightarrow$  P.3-6). The values displayed for the video port number, camera control port number and HTTP port number are those set in "Setting Up the HTTP, Camera and Audio Servers"  $(\to P.3-17).$ 



# **View Restriction Tool**

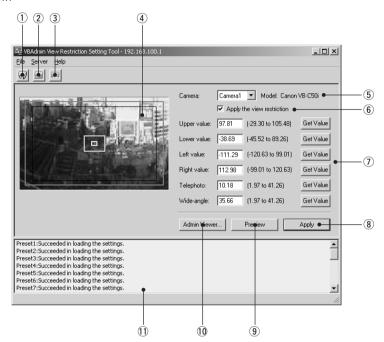
The View Restriction Setting Tool enables you more visually and easily to set limits on the video which can be seen by users. A View Restriction is set up with the mouse while referring to a panoramic preview.





# **View Restriction Tool Display Screen**

An overview of the functions of the GUI displayed when the View Restriction Tool starts up is shown below.



- 1 "Load Settings" button Loads the view restriction settings set in the VB-C50i/VB-C50iR.
- (2) "Save Settings" button The View Restriction setting value set and applied with this tool is saved to the VB-C50i/VB-C50iR. After setting the view restrictions, be sure to click the "Save Settings" button to save the settings to the VB-C50i/VB-C50iR.
- ③ "Stop Communication" button Click this button during communication with the VB-C50i/VB-C50iR to cut the connection.
- Panorama Preview

Panorama images registered in the VB-C50i/VB-C50iR are displayed. A View Restriction preview frame is displayed in which the View Restriction setting values are redisplayed. You can, by dragging with the mouse, change the shape of or move the frame which will then be reflected in the View Restriction setting values.

 View Restriction Preview frames Pan/Tilt Preview Frame (red) ...... Upper/Lower/Left/Right value restriction area Wide-angle Preview Frame (green) ...... Zoom field of view (wide angle) restriction area Telephoto Preview Frame (yellow) ...... Zoom field of view (telephoto) restriction area

#### (5) Camera Selection box

Select the camera to be used to apply view restriction settings.

#### 6 "Apply the view restriction"

View restriction settings are applied when this item is selected.

#### 7) View Restriction Value Input boxes and "Get Value" button

The view restriction settings can be edited by entering values in the View Restriction Value Input boxes. When the "Get Value" button is clicked, the current angle of the camera can be retrieved and reflected in each setting value listed below.

#### · View restriction setting values

Upper value ........ Value for the upper limit of the view restriction. The upper value of the selected camera angle is obtained using the "Get Value" button.

Lower value ........ Value for the lower limit of the view restriction. The lower value of the selected camera angle is obtained using the "Get Value" button.

Left value ........... Value for the left limit of the view restriction. The left value of the selected camera angle is obtained using the "Get Value" button.

Right value ........ Value for the right limit of the view restriction. The right value of the selected camera angle is obtained using the "Get Value" button.

Telephoto ............ Value for the telephoto limit of the view restriction. The zoom value of the selected camera angle is obtained using the "Get Value" button.

Wide-angle .......... Value for the wide-angle limit of the view restriction. The zoom value of the selected camera angle is obtained using the "Get Value" button.

#### 8 "Apply" button

Applies the current view restriction settings to the VB-C50i/VB-C50iR. At this stage, the edited settings are not yet saved to the VB-C50i/VB-C50iR. Be sure to click the "Save Setting" button to save the settings to the VB-C50i/VB-C50iR.

#### 9 "Preview" button

Clicking this button allows checking of the set values specified in the View Restriction Value Input boxes with the View Restriction Preview frame.

#### 10 "Admin Viewer" button

This button can be used to start up Admin Viewer.

#### (11) Status List

Displays the results of communication between this tool and the VB-C50i/VB-C50iR. Warning messages are displayed in blue and error messages are displayed in red.



- You cannot set view restriction for an external camera. For this reason, the only camera you can select in the Camera Selection box is "Camera 1" (VB-C50i/VB-C50iR).
- Edited content is not saved to the VB-C50i/VB-C50iR when the "Apply" button is clicked. The edited content will only come into effect when the "Save Setting" button is clicked.

# **Setting View Restrictions**

You can set up a view restriction by either entering a value in the view restriction setting input box or by using the following 2 methods. Select the way which suits your environment or according to vour preference.

## ■ Changing Settings from the View Restriction Preview Frame

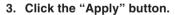
The View Restriction Preview frame on the panorama picture can be used to set view restrictions.

To Make Settings...

- 1. Select "Apply the view restriction".
- 2. Set the view restrictions by using the mouse to move or change the shape of the "Pan/Tilt Preview Frame (red)", "Telephoto Preview Frame (yellow)", and "Wide-angle Preview Frame (green)" displayed on the panorama picture.

When enlarging or reducing the Telephoto Preview and Wide-angle Preview frames, the vertical:horizontal ratio is fixed.

At this point, you can also enter and set values in the View Restriction Value Input boxes.



Check the Status List to be sure the values were applied correctly. Then when the "Save Settings" button is clicked, the values will be saved to the VB-C50i/VB-C50iR.







# ■ Retrieving Values from the Camera Angle of the Admin Viewer and Changing Settings

Admin Viewer can be used to set the view restriction while confirming camera images.

To Make Settings...

- 1. Select "Apply the view restriction".
- 2. Click the "Admin Viewer" button to start it up.
- 3. In Admin Viewer, click the "Start Control" button to obtain control rights for the camera.







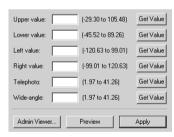
 Move the camera angle to the position you want to set with the Upper, Lower, Left, Right, Telephoto, and Wide-angle values, then click the "Get Value" button for each.

The values retrieved using the "Get Value" button can be checked in the View Restriction Value Input boxes, or with the View Restriction Preview frame.

At this point, you can also enter and set values in the View Restriction Value Input boxes.

5. Click the "Apply" button.

Check the Status List to be sure the values were sent correctly. Then when the "Save Settings" button is clicked, the values will be saved to the VB-C50i/VB-C50iR.







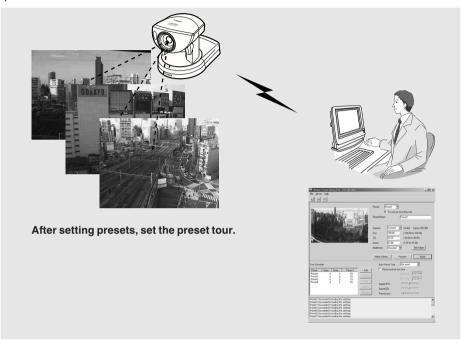
The Panorama Preview may be slightly different from the actual picture. After the view restrictions have been set, please check to be sure the viewer is correctly reflecting the view restrictions. When checking from the Admin Viewer, choose "View Restriction" - "ON" from the "Privilege" menu bar ( $\rightarrow$  P.4-67).



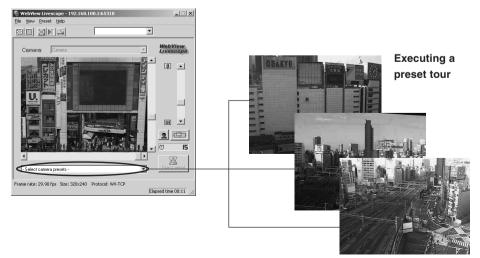
- When a view restriction is set, areas outside the restrictions may be captured momentarily if the camera is controlled close to the restriction limits.
- When you want to clear the view restriction settings, clear the "Apply the view restriction" check box, click the "Apply" button and then the "Save Settings" button.
- Even if the "Apply the view restriction" is selected, view restriction is not applied when an input box is left blank. In this case, the maximum value is applied.
- For details on view restriction settings, see page 3-10.

# **Preset Setting Tool**

The Preset Setting Tool enables you more visually and easily to set Presets and home position. Presets are set by operating the mouse while referring to a panoramic preview. You can also enter settings for a Preset Tour with which you can tour and monitor two or more Presets within a specified start and end time.



#### Reflecting preset settings in the viewer

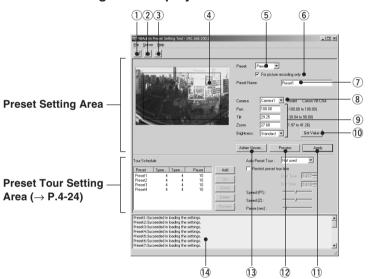


# **Preset Setting Tool Display Screen**

The display screen for the Preset Setting Tool is divided into the "Preset Settings Area" and the "Preset Tour Settings Area". A maximum of 20 Presets and home positions can be set by referring to a panoramic preview. In the "Preset Tour Settings Area", you can enter settings for a Preset Tour with which you can tour and monitor two or more presets within a specified start and end time. Below is a description of the "Preset Setting Area" screen.

See page 4-24 for information about the "Preset Tour Setting Area".

#### ■ Preset Setting Area Display Screen



"Load Settings" button
 Loads the Preset and Preset Tour settings currently set in the VB-C50i/VB-C50iR.

#### (2) "Save Settings" button

Saves the set and applied Preset and Preset Tour settings made with this tool to the VB-C50i/ VB-C50iR

Be sure to save Preset and Preset Tour settings with the "Save Settings" button.

#### 3 "Stop Communication" button

This button can be clicked during communication with the VB-C50i/VB-C50iR to cut the connection.

#### 4 Panorama Preview

Panorama images registered in the VB-C50i/VB-C50iR are displayed. A yellow Preset Preview frame is displayed in which the Preset settings are redisplayed. You can, by dragging the mouse, change the shape of or move the frame which will then be reflected in the Preset settings.

If there are View Restrictions set up, the View Restriction Preview frame appears in blue (within the range of the restriction) or red (outside the range of the restriction).

#### (5) Preset Selection box

Select the preset to set or "Home". "Home" is the setting for home position.

#### 6 "For picture recording only"

When this is checked, presets are used for picture recording only; when it is not checked, presets can be used not only for picture recording but for the viewer as well. If you selected "Home" in the Preset Selection box, this setting will be grayed out (setting not possible).

#### 7 Preset Name

A name can be assigned to the preset. If you selected "Home" in the Preset Selection box, this setting will be grayed out (setting not possible).

#### (8) Camera Selection box

Select the camera to be used to apply preset settings.

#### 9 Camera Parameters

Use "Pan" and "Tilt" to specify the central angle for the pan and tilt ranges you want to set. Use "Zoom" to enter the angle for the field of view.

#### Camera Angles

Pan ...... Sets the pan position of the camera.

Tilt ...... Sets the tilt position of the camera.

Zoom ....... Sets the zoom ratio (field of view angle).

#### Brightness

Sets the target value for the camera's auto exposure feature. Select "Brighter" if the picture is too dark due to backlight or other factors.

#### 10 "Get Value" button

When the Get Value button is clicked, the current angle of the camera selected at the VB-C50i/VB-C50iR is retrieved as camera parameters.

#### 11 "Apply" button

Settings for current Presets and Tour Schedules are applied to the VB-C50i/VB-C50iR, and you can proceed to the next Preset setting. At this stage, the edited settings are not yet saved to the VB-C50i/VB-C50iR. Be sure to click the Save Settings button to save the settings to the VB-C50i/VB-C50iR.

#### 12 "Preview" button

The settings for camera parameters are reflected in the Preset Preview frame. The camera angle for the VB-C50i/VB-C50iR also switches to this Preset and you can confirm from the Admin Viewer.

#### 13 "Admin Viewer" button

This button can be used to start up Admin Viewer.

#### (14) Status List

Displays the results of communication between this tool and the VB-C50i/VB-C50iR. Warning messages are displayed in blue and error messages are displayed in red.



Edited content will not be reflected in the viewer accessed to the VB-C50i/VB-C50iR at the stage when the Apply button is clicked. After confirming the edited content, be sure to click the Save Settings button to save the settings to the VB-C50i/VB-C50iR.

# **Setting Presets**

You can set up Presets by either entering a value in the camera parameters or by using the following 2 methods. Select the way which suits your environment or according to your preference.

## ■ Changing Settings from the Preset Preview Frame

The Preset Preview frame on the panorama picture can be used to set presets.

#### To Make Settings...

- 1. From the Preset Selection box, select the preset to be set and enter a name in "Preset Name".
- 2. Drag the Preset Preview frame shown on the panorama picture to move or change its shape and set the preset.

Alternatively, you can click at a spot on the picture to make the center of the frame move to that point. At this point, you can also enter and set values in the camera parameters.



Check the Status List to be sure the values were applied correctly. Then when the "Save Settings" button is clicked, the values will be saved to the VB-C50i/ VB-C50iR.





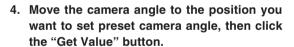


# ■ Retrieving Values from the Camera Angle of the Admin Viewer and Changing Settings

Start up Admin Viewer and set the camera angle as a preset.

#### To Make Settings...

- From the Preset Selection box, select the preset to be set, and enter the "Preset Name".
- 2. Click the "Admin Viewer" button to start it up.
- 3. Click the "Start Control" button in the Admin Viewer to obtain camera control rights for the camera.



The values retrieved using the Get Value button can be checked in the Preset settings input boxes, or with the Preset Preview frame.

At this point, you can also enter and set values in the camera parameters.

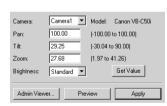
5. Click the "Apply" button.

Check the Status List to be sure the values were applied correctly. Then when the Save Settings button is clicked, the values will be saved to the VB-C50i/VB-C50iR.













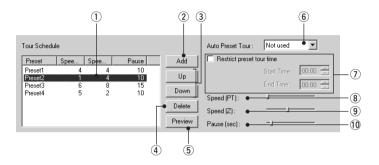
- You can set a maximum of 20 presets.
- Changes in the preset settings are not reflected to the viewer while it is connected.
- If view restrictions are to be used, be sure that the Preset Preview Frame (yellow) does not protrude outside the View Restriction Frame (blue).
- The preview used in the Panorama Preview may be slightly different from the actual picture. After the presets have been set, please check to be sure the viewer is correctly reflecting the presets.
- Once presets have been set, they cannot be deleted. If you do not want to these presets to be used, select "For picture recording only" so that the presets cannot be used in the Viewer for PC. In the Viewer for Java, use of the presets can be disabled by changing the LiveApplet parameters and disabling the Preset Selection box display.

#### **Preset Tour**

A Preset Tour can tour and monitor two or more specified Presets.

You can also set Preset Tour with "Presetting Best Shot" in Chapter 3, "Basic Settings" ( $\rightarrow$  P.3-12).

## ■ Preset Tour Settings Area Display Screen



#### 1 Tour Schedule list

Displays a list of the presets which have Preset Tour settings.

#### ② "Add" button

Adds a preset to the Tour Schedule List.

#### 3 "Up" and "Down" button

Select a Preset from the list, and click the "Up" or "Down" button to change the order of the Preset Tour. The Preset Tour commences from the preset at the top of the list.

#### (4) "Delete" button

Deletes the selected Preset.

#### (5) "Preview" button

Reflects the settings for the selected preset in the Preset Preview frame. The camera angles set in the device switch to the specified values and can be confirmed from the Admin Viewer.

#### 6 Auto Preset Tour

Select an option for a Preset Tour from the following.

Not Used: Preset Tour does not operate.

For Viewers: Operates if a Viewer is open.

Always: Preset Tour always operates.

#### 7) "Restrict preset tour time"

Click to set the start time and end time of the Preset Tour.

#### 8 Speed (PT)

Sets the speed at which the camera moves when panning and tilting, within a range of 1-8. By moving the slide bar from left to right, the numeric value becomes larger and the speed increases.

#### 9 Speed (Z)

Sets the speed at which the camera moves when zooming, within a range of 1-8. By moving the slide bar from left to right, the numeric value becomes larger and the speed increases.

#### 10 Pause (sec)

Sets the time for which the camera pauses in the preset position, within a range of 0-120 seconds in units of five seconds.



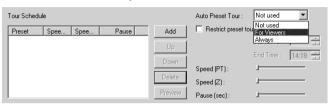
Preset Tour does not operate when the camera is being controlled with the Viewer for PC, or the Admin Viewer and so on.

## ■ Setting Preset Tour

#### Setting up

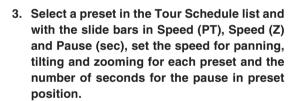
1. Select an option from Auto Preset Tour.

Select either "For Viewers" or "Always".



Select the preset number you want to add to the Tour Schedule from the Preset setting area and click the "Add" button.

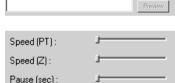
The preset is registered in the Tour Schedule list. You can register a maximum of 20 presets.



Click the "Preview" button to display the set value in the Preset setting area. Also, the camera angle switches to the preset and you can check from the Admin Viewer.

4. To set the duration of the Preset Tour, select "Restrict preset tour time" and enter a start time and end time.

You cannot set Start Time and End Time on the same time.



Add

Tour Schedule

Preset1

Preset Spee... Spee...



## 5. Click the "Apply" button.

Check the status list that the settings have been correctly applied and click the "Save Settings" button to save the settings to the device.



You cannot add a home position to the Tour Schedule list.

# **Schedule Setting Tool**

With the Schedule Setting Tool, you can set up Timer, Motion Detection, Night Mode, External Device Input and External Device Output services to perform automatically on a specified day of the week or time of the day. You can set a start and end time and the content of the service on the calendar in the Schedules Setting screen.

- Select either Normal Schedule or Special Schedule and enter settings for the schedule.
  - Normal Schedule

Enter settings for a schedule of one week from Sunday to Saturday.



#### Special Schedule

Enter settings for a schedule of special days of the week.





- 2. Enter settings for the Services ( $\rightarrow$  P.4-38).
  - Timer: Performs audio playback and records the still image into the VB-C50i/VB-C50iR at specified time (→ P.4-39).
  - Motion Detection: Where there is a variation in part of a picture caused by the movement of an object, the VB-C50i/VB-C50iR performs picture recording, automatic tracking and audio playback (→ P.4-41).
  - **Night Mode:** Takes shots in dark conditions ( $\rightarrow$  P.4-52).
  - **External Device Input:** Sets camera operation for external device input ( $\rightarrow$  P.4-54).
  - External Device Output: Sets the output time to external devices and the repetition interval etc. (→ P.4-56).
- 3. Once settings are completed, click the "Save Settings" button to save the settings, and close the setting screen for the services.
- 4. Once all the Schedules have been set, click the "Save Settings" button in the Schedule Setting screen to save the settings, and close the Schedule Setting Tool.

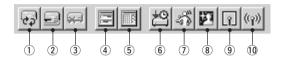


- Records picture in the memory. Up to 2000 pictures can be recorded in the memory.
- If you want to record more than 2000 pictures, please use the VBCollector (→ P. 6-9)
- You can check the amount of disk space and number of recorded pictures in "Administration Tools" on the settings page (→ P. 3-28).

# Schedule Setting Tool Display Screen (Toolbar)

There are two kinds of Schedule settings, Normal Schedule and Special Schedule. The buttons in the toolbar below can be used for both Normal and Special Schedules.

With these buttons, you can load and save setting information, stop communication, select Normal schedule ( $\rightarrow$  P.4-29) and Special schedule ( $\rightarrow$  P.4-33) as well as open each service setting screen ( $\rightarrow$  P.4-39, 4-41, 4-52, 4-54, 4-56).



"Load Settings" button
 Loads the schedule settings currently set in the VB-C50i/VB-C50iR.

#### ② "Save Settings" button

Saves the schedule setting edited using the Schedule Setting Tool to the VB-C50i/VB-C50iR. After setting the schedule function, be sure to click the "Save Settings" button to save the settings.

3 "Stop Communication" button

Click this button during communication with the VB-C50i/VB-C50iR to cut the connection.

(4) "Normal schedule" button

Displays the Normal Schedule Setting screen ( $\rightarrow$  P.4-29).

(5) "Special schedule" button

Displays the Special Schedule Setting screen ( $\rightarrow$  P.4-33).

6 "Timer setting tool" button

Opens the Timer Setting Tool ( $\rightarrow$  P.4-39).

(7) "Motion detection setting tool" button

Opens the Motion Detection Setting Tool (→ P.4-41).

(8) "Night mode setting tool" button

Opens the Night Mode Setting Tool ( $\rightarrow$  P.4-52).

9 "External device input setting tool" button

Opens the External Device Input Setting Tool ( $\rightarrow$  P.4-54).

10 "External device output setting tool" button

Opens the External Device Output Setting Tool ( $\rightarrow$  P.4-56).

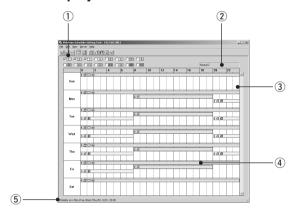


After setting, be sure to click the "Save Settings" button to save the settings.

## **Normal Schedule**

With Normal Schedule, you can set up a schedule of one week from Sunday to Saturday. For example, during the weekend when there is nobody in the office from 6:00pm on Friday to 9:00am on Monday, the Motion Detection service will operate each week during the period of time you have specified and automatically monitor the office.

## ■ Normal Schedule Display Screen



#### 1) Schedule selection checkbox

Check to select the number of the schedule you want to set up. Up to 16 types of schedules can be set.

#### (2) Schedule Name

Displays the name of the schedule you have selected.

#### 3 Weekly Calendar

Displays the schedule by the day, start and end time.

#### (4) Schedule track

The schedule track is the schedule as a graph on the calendar. Double-click to set services, start and end times, which are displayed by different colors according to the number of the schedule.

#### 5 Schedule track setting details display

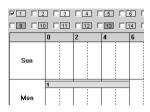
Displays the setting details of the schedule track dragged on the calendar.

## ■ Setting Up a Normal Schedule

To Make Settings...

 With the Normal Schedule displayed, select an optional schedule number.

The schedule track for the number you have selected is displayed in the weekly calendar. At this stage, the correct start and end time and services are not set up in the schedule track.





You can change the color of the schedule track by right-clicking a schedule number and selecting "Color Setting".

2. Double-click the schedule track.

The Normal Schedule Settings dialog box appears. Enter settings for the schedule.



3. Enter the name of the schedule.

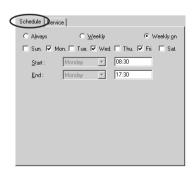
You can enter a maximum of 15 characters for the schedule name.

4. Display the Schedule tab and enter settings for the day of the week and start and end times.

**Always**: The schedule is effective at all times from Sunday to Saturday.

**Weekly**: You can set the day and the time the schedule starts and ends (e.g. from 1:00pm on Monday to 7:00am on Tuesday).

**Weekly on**: You can set the same start time and end time for two or more days of the week (e.g. from 8:30am to 5:30pm on Monday, Wednesday and Friday).



Please note that there is a limit of 24 hours from the start time to the end time.



- On Weekly setting, if you specify the same time and the same day in start and end time, end time will be the same time in the following week, and the schedule is applied to all time periods.
- On Weekly setting, if you specify the same start and end time, the end time will be on the following day at the same time.
- If you enter "24:00" as the start or end time, the time will be registered as "23:59". To set "24:00", enter "00:00" on the following day.

## Display the Service tab and enter settings for the services you want to use.

Select the checkboxes for the services you want to use and select a setting number. Next click "Detail" to open the Service Setting Tool to set the content of the setting.

There are 5 types of services. See the reference page for how to set up services and more information about each service.

Timer:  $(\rightarrow P.4-39)$ 

Motion Detection: ( $\rightarrow$  P.4-41) Night Mode: ( $\rightarrow$  P.4-52)

External Device Input:  $(\rightarrow P.4-54)$ External Device Output:  $(\rightarrow P.4-56)$ 

Once the settings for each schedule are completed, save the settings and close the Schedule Setting Tool.

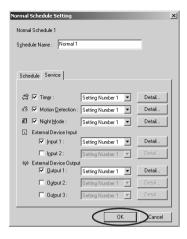


- You can register different settings for each setting number. The number of setting numbers you can register depends on the service.
- The Service Setting screen can also be displayed by clicking a button on the toolbar for each service.
- A setting number entered from the Service Setting tab in the Schedule Setting screen cannot be changed in each Service Setting screen.



6. When you have completed setting the subschedule tracks, click "OK" button.

If you want to set two or more schedule tracks, select another number in the schedule selection checkbox. and make settings in the same way.





- You can register different settings for each setting number. The number of setting numbers that can be registered differs depending upon the service.
- An icon for the service you have set up appears in the schedule track in the calendar. However, where the schedule track is short, it may be that not all of icons are displayed.

The icons displayed for each service are as follows:





"Motion Detection"



"Night Mode"





"External Device Input" (External Device Output"

- The days and start and end times set in the Schedule tab are shown by the position and length of a schedule track. You can change the position and length of the schedule track by directly dragging it with the mouse. However, the schedule track cannot display a period of time shorter than 10 minutes and therefore periods of time shorter than 10 minutes are also displayed as periods of 10 minutes.
- You cannot set 2 schedules which have the same service with the same start and end time. If you try to do so, a warning message is displayed.
- 7. After setting all the schedule tracks, be sure to click "Save Settings" button to save the settings.

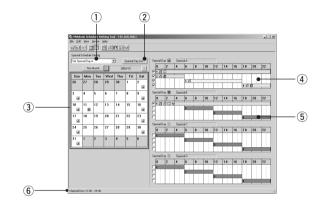


If you have set a Normal Schedule and a Special Schedule (→ P.4-33) with the same start and end time, the Special Schedule will have priority over the Normal Schedule.

# **Special Schedule**

With Special Schedule, you can set up a schedule on one specific day of the week. For example, on a public holiday when there is nobody in the office, set up a service to automatically monitor the office.

## ■ Special Schedule Display Screen



#### 1) Set Special Day selection box

Select the special day you want to register from special days A-D or select "Erase Special Day".

#### (2) "Special Day List" button

Click to display the Special Day List dialog box. The dates of all registered Special Days are displayed as a list. You can also add, delete and edit the date, as well as delete all dates.

#### 3 Monthly Calendar

The Special Days registered on each date are displayed.

#### (4) Special Day Schedule

The content of the settings for each Special Day is displayed. You can set the Special Day Schedule with a maximum of the 4 special days from A-D.

#### (5) Sub-schedule track

The Sub-schedule track is the schedule as a graph on the Special Day Schedule. Double-click to set up services and start and end times. You can set a maximum of 4 Sub-schedule tracks for each Special Day Schedule.

#### 6 Sub-schedule track setting details display

Displays the setting details of the sub-schedule track dragged on the Special Day Schedule.

## ■ Setting Up a Special Schedule

To Make Settings...

1. With the Special Schedule displayed, select from the Special Day selection box the Special Day you want to register in the Schedule.

Click the date on which you want to register a Schedule and the Special Day you have selected is registered.

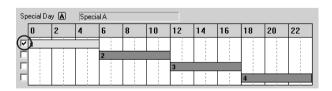






- You can only set one type of Special Day per day.
- You can set one Special Day a maximum of 32 times.
- You can also set up a Schedule by right-clicking on a date on the calendar.
- You can add, delete, edit and delete all from the Special Day List dialog box by clicking the Special Day List button.
- Select the optional sub-schedule track from the Special Day Schedule to be used.

In each Special Day Schedule, 4 Sub-schedule tracks have been provided. Select a Sub-schedule track to activate.



#### 3. Double-click the sub-schedule track.

The Special Schedule Settings dialog box appears. Enter settings for the schedule.

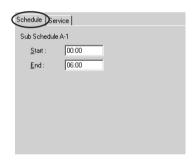


#### 4. Enter the name of the Special Day Schedule.

You can enter a maximum of 15 characters for the Special Day Schedule.

The schedule name you enter here is the name for the Special Day schedule (A-D), which is different from the Sub-schedule name. You cannot set a name for a Sub-schedule.

5. Display the Schedule tab and enter settings for start and end times of the schedule.





- Enter a schedule between 0:00 and 24:00. However, be sure to enter an end time which is later than the start time.
- You cannot enter 24:00 as a start time.

## 6. Display the Service tab and enter settings for the services.

For more information about the services you can set, please see page 4-31.

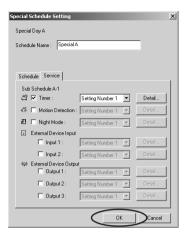


- The Service Setting screen can also be displayed by clicking a button on the toolbar for each service.
- A setting number entered from the Service Setting tab in the Schedule Setting screen cannot be changed in each Service Setting screen.

Continued on the following page. >

7. When you have completed setting the subschedule tracks, click "OK" button.

If you want to set two or more special days, select another special day from the Special Day selection box, and make settings in the same way.





An icon for the service you have set up appears in the schedule track in the calendar. However, where the schedule track is short, it may be that not all of icons are displayed.

The icons displayed for each service are as follows:











External Device Input" (External Device Output"

- The days and start and end times set in the Schedule tab are shown by the position. and length of a schedule track. You can change the position and length of a subschedule track by directly dragging it with the mouse. However, the schedule track cannot display a period of time shorter than 15 minutes and therefore periods of time shorter than 15 minutes are also displayed as periods of 15 minutes.
- You cannot set 2 schedules which have the same service with the same start and end time. If you try to do so, a warning message will be displayed.
- You can copy and paste information about a Special Day to another Special Day. For example, to copy information from Special Day A to Special Day B, right-click in Special A Schedule and select "Copy from Special Day A". In Special Day B Schedule, right-click in the same way and select "Paste to Special Day B".





8. Once all the schedules have been set, click the "Save Settings" button in the Schedule Setting screen to save the schedules.



- ullet If you have set up a Normal Schedule ( $\rightarrow$  P.4-29) and a Special Schedule with the same start and end time, the Special Schedule will have priority over the Normal Schedule.
- If you want to execute a Special day schedule on the same month and day each year, right-click the Special Day registered on the date in the monthly calendar, and select "Every Year". When you have done so, the Special Day on the calendar is displayed in red.
- You cannot set "Every Year" on 29 February of a leap year.

This completes the settings for the special schedule.

# **Resetting Schedule Settings**

Resets schedules you have set.

1. In the Normal or Special Schedule Setting screen, select "Initialize normal (special) schedules" from Edit in the menu bar.



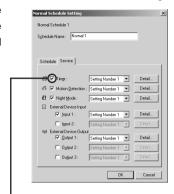
If you want to reset normal and special schedules at the same time, select "Initialize all schedules and service settings" from Edit in the menu bar.

# **Setting Up Service**

Set up the services to be performed in the schedules.

To open the settings screen for each service, in the "Service" tab in the Schedule Setting screen, select the service you want to set up, select a setting number and click "Detail".

"Service tab" in the Schedule Setting screen



Select the service you want to make settings for, select a setting number and click the "Detail" button

There are 5 types of services you can set up.

- Timer: Performs audio playback and records the still image into the VB-C50i/VB-C50iR at specified time. (→ P.4-39).
- Motion Detection: Where there is a variation in a part of a picture by the movement of an object, the device performs picture recording and automatic tracking (→ P.4-41).
- Night Mode: Takes shots in dark conditions (→ P.4-52).
- **External Input**: Sets camera operation for external device input ( $\rightarrow$  P.4-54).
- External Output: Sets the output time to external devices and the repetition interval etc.
   (→ P.4-56).

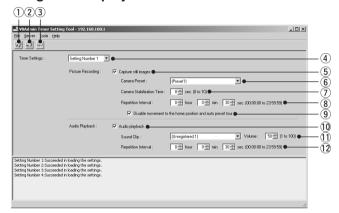


- Once the services have been set, click the "Save Settings" button on the Schedule Settings screen to save the settings, and close the settings screen.
- You can also start up each of the service setting screens from the toolbar (→ P.4-28). In such case, select a setting number in each service setting screen.

# **Timer Setting Tool**

The section below describes the "Picture Recording" function that takes still images at specified times and records them in the VB-C50i/VB-C50iR. It also describes the "Audio Playing" function that plays back audio.

# ■ Timer Setting Tool Display Screen



1) "Load Settings" button

Loads the timer settings currently set in the VB-C50i/VB-C50iR.

2 "Save Settings" button

Saves the timer settings edited using this Tool.

After setting the timer function, be sure to click the "Save Settings" button to save the settings.

(3) "Stop Communication" button

Click this button during communication with the VB-C50i/VB-C50iR to cut the connection.

- 4 Timer Setting box
  - Select the setting number you want to use.
- (5) Capture still images

Check to capture images at the set repetitive intervals and record to the VB-C50i/VB-C50iR.

6 Camera Preset

Select an angle when recording picture. Select from "Does not specify" or from preset names already set.

(7) Camera Stabilization Time

Starts capturing images after waiting for the specified time for the camera to stabilize after moving. The maximum time is 10 seconds.

8 Repetition Interval

Sets the interval between repeated image recording. Repetition Interval can be set to a maximum of 23 hours, 59 minutes and 59 seconds. If you set Repetition Interval to 0, a still image is only recorded once at the start of the scheduled time.

9 Disable movement to the home position and auto preset tour

Check to disable movement to home position and Preset Tour during picture recording. You can only enter a tick if a preset is specified in "Camera Preset" and "Repetition Interval" is set to more than 30 seconds.

10 Audio playback

Check for playback of audio at the set repetition interval. Set up the "Sound Clip", "Volume" and "Repetition Interval" below.

(1) Sound Clip and Volume

Set the audio for playback. Select from the registered playback audio names. Set the volume at which the audio is to be played back, between 1 and 100.

12 Repetition Interval

Set the interval between playback of audio. You can set an interval to a maximum of 23 hours, 59 minutes and 59 seconds. If you set Repetition Interval to 0, the audio will play back only once at the start of the scheduled time.

# ■ Setting Up Picture Recording

To Make Settings...

1. With the Schedule Setting Tool, open the Timer Setting Tool.

In the Service tab of the Schedule Setting screen for a Normal or Special Schedule, check "Timer", select a setting number and click the "Detail" button ( $\rightarrow$  P.4-38).

- Check "Capture still images" and set "Camera Preset", "Camera Stabilization Time", "Repetition Interval" and "Disable movement to the home position and auto preset tour".
- Click the "Save Settings" button to save the settings and close the Timer Setting screen.

# ■ Setting Up Audio Playback

To Make Settings...

1. With the Schedule Setting Tool, open the Timer Setting Tool.

In the Service tab of the Normal or Special Schedule Setting screen, check "Timer", select a setting number and click the "Detail" button ( $\rightarrow$  P.4-38).

- Check "Audio playback" and set "Sound Clip", "Volume" and "Repetition Interval".
- Click the "Save Settings" button to save the settings and close the Timer Setting screen.



- Sample sound files are contained on the CD-ROM.
- For registering and deleting audio files, see "Audio Playback Settings dialog box" (→ P. 4-60).

# **Motion Detection Setting Tool**

The section below describes the motion detection function which records pictures, sends data to external devices and records data in the log when there is a variation in all or part of the picture resulting from objects moving around and the automatic tracking function where the camera tracks a moving object.



#### **Notes on Using This Function**

The Motion Detection and automatic tracking Functions are not suited to applications where high levels of reliability are demanded. Therefore, we recommend that you not use these functions 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 and automatic tracking Functions.

# ■ Motion Detection Setting Tool Display Screen (Live Mode)



- 1) "Load Settings" button
  - Loads the motion detection settings currently set in the VB-C50i/VB-C50iR.
- 2 "Save Settings" button

Saves the current motion detection settings edited using this tool to the VB-C50i/VB-C50iR. After setting the motion detection function, be sure to click the "Save Settings" button to save the settings to the VB-C50i/VB-C50iR.

- 3 "Stop Communication" button Click this button during communication with the VB-C50i/VB-C50iR to cut the connection.
- 4 Mode tab (Live, Video)
  - Live mode

For picture display, camera control and recording of the picture displayed.

Video mode

For adjusting motion detection sensitivity (→ P.4-51) during play back of the picture recorded in Live Mode.

#### (5) Camera Selection box

For selecting a camera.

#### (6) Viewer

For picture display and camera control in the same way as a normal viewer.

#### (7) Motion detection area frame

Displays with a dotted frame the area within which motion is to be detected. The frame can be reshaped and moved by dragging the mouse.

#### ® "Rec. Start" button

Starts recording of the picture.

#### 9 Setting number selection box

Select the number of the setting you want to use.

#### (1) Settings tabs (Camera, Area, Recording, Output, Audio / Tracking)

#### Camera tab

For setting the frame rate and camera positions ( $\rightarrow$  P.4-44).

#### Area tab

For selecting the area within which motion is to be detected and the sensitivity, area ratio and duration for each area ( $\rightarrow$  P.4-45).

#### Recording tab

For setting picture recording time when the device detects motion (ON event) or when the device no longer detects motion (OFF event), and recording intervals ( $\rightarrow$  P.4-47).

#### Output tab

For setting output of data to an external device ( $\rightarrow$  P.4-48).

#### Audio/Tracking tab

Sets audio playback and automatic tracking.

#### 1) Display motion detection status of the server

Check to display the results of motion detection by the server. You can check whether or not the settings are activated in the device ( $\rightarrow$  P.4-49).

# ■ Flow of Motion Detection Settings

A summary of the procedures for motion detection is given below. Please refer to each reference page for information about detailed setting content.

#### 1. Open the Motion Detection Tool.

The Motion Detection Tool Setting screen appears ( $\rightarrow$ P.4-41 "Motion Detection Setting Tool Display Screen").

Enter settings for motion detection in the Settings tabs on the right of the screen. There are 5 Settings tabs -"Camera", "Area", "Recording", "Output" and "Audio/ Tracking".

2. Set the camera frame rate and the camera position for detection (See the "Camera" tab  $\rightarrow$  P.4-44).



- 3. Set the detection area (See the "Area" tab  $\rightarrow$  P.4-45).
- 4. Set the sensitivity of the motion detection at what degree of variation in the image activates the motion detection (See the "Area" tab  $\rightarrow$  P.4-45).
- 5. Set actions to be performed when motion detection is activated ("Recording" tab  $\rightarrow$  P.4-47).
- 6. If necessary, set audio playback, automatic tracking and output to an external device ("Output" tab  $\rightarrow$  P.4-48 "Audio/Tracking" tab  $\rightarrow$  P.4-48).
- 7. Save the settings.



You can set the level of motion detection in the "Area" tab, while checking the viewer image on the left side of the screen. See "Motion detecting status and screen display"  $(\rightarrow P.4-50)$  about screen display in this case. You can also adjust the level of motion detection during play back in Video Mode of images recorded in Live Mode ( $\rightarrow$  P.4-51).

# ■ Setting Up Motion Detection

#### To Make Settings...

1. Open the Motion Detection Setting Tool with the Schedule Setting Tool.

In the Service tab in a Normal or Special Schedule Setting screen, check Motion Detection, select a setting number and click "Detail" ( $\rightarrow$  P.4-38).

2. Set the camera frame rate and the camera position for detection (Camera tab).

Set the camera frame rate and camera position.

For camera position, either set your own area for detection in the Live Mode Viewer or select a Preset in the Camera tab.

1) "Enable frame rate setting"

Check to set the frame rate for camera shooting. Enter a value within a range of 0.5-30.0 fps (NTSC)/25.0 fps (PAL).

- \* Please refer to P.1-10 to confirm whether your VB-C50i/ VB-C50iR is PAL model or NTSC model.
- 2 "Enable preset selection"

Check to select a camera position from a preset.





The frame rate specified in the "Maximum Frame Rate" ( $\rightarrow$  P.3-18) must be higher than the one specified using this tool.



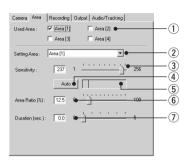
- When the network traffic is high, the specified frame rate may not be achieved.
- When a slow frame rate is set, motion detection is applied to images sampled from the captured video. In this way, motion can be detected even in slowly moving objects.
- The frame rate specified above only applies to the motion detection.

#### 3. Create a motion detection area (Area tab)

Create an area in the viewer within which motion detection is to be performed (motion detection area). You can create a maximum of 4 motion detection areas, and reshape and move each area frame by dragging the mouse. Change the shape by dragging the black boxes on the 4 corners and sides of the frame, and move the frame by dragging the inside of it with the mouse. Also, you can set a separate level of motion detection in each area. See step 4 for how to set up the level of motion detection.

#### ① Used Area

Check the number of the motion detection area to be used and the detection area frame is displayed in the Viewer. You can create a maximum of 4 motion detection areas.



# 4. Setting the level of motion detection for the motion detection area (Area tab)

These settings determine how great the variation must be (sensitivity), how large the changed area must be as a proportion of the whole detection area (area ratio), and how long the variation must continue (duration) before it is recognized as motion and the specified action is performed.

You can also set the level of motion detection for the device by checking in Video Mode the image recorded with Live Mode ( $\rightarrow$  P.4-51).

#### ② Setting Area

If you have created two or more motion detection areas, you can set separate levels of motion detection in each area frame. In Setting Area, select a setting number.

#### (3) Sensitivity

Select the sensitivity of the motion detection in a range of 1-256. Either enter the setting or set sensitivity by dragging the slide bar. The larger the numeric value, the higher the degree of sensitivity will be.

#### 4 "Auto" button

The "Auto" button sets sensitivity automatically. For several seconds after clicking the "Auto" button, the VB-C50i/VB-C50iR assumes that there is no motion in the image in the motion detection area and, based on this information, sets the camera at optimum sensitivity. Set when there is no motion.

#### 5 Detection indicator

Displays the area ratio of motion detected by the device in real time in the form of a graph ( $\rightarrow$  P.4-50).

#### 6 Area Ratio

When the proportion of the area in which the device has detected motion (displayed in a red or yellow rectangle) has exceeded the specified value for the area of the selected detection area frame (blue frame), the device detects motion and performs the specified picture recording etc. (However, even if the area ratio value is exceeded, the device does not detect motion unless the number of seconds specified in Duration has passed). Set within a range of 0-100%, by either entering a numeric value or by dragging the slide bar.

#### (7) Duration

When the situation where the motion has exceeded the area ratio continuous for more than the duration time, the device detects motion and performs picture recording etc. Set within a range of 0-5 seconds, by either entering a numeric value or by dragging the slide bar.



- If Sensitivity is set at a low level, the device does not recognize the motion even during great variations in the image inside the motion detection area frame. Also, if the area ratio and duration of the motion in the part of the image where motion occurred in the area frame do not reach the set values, the device does not perform detection and the specified actions such as picture recording are not performed.
- You can select a setting area by clicking the motion detection area frame in the Viewer you want to specify. The selected motion detection area frame is displayed as a blue frame.
- If you set the setting area to "Not specified", the results of detection in all the motion detection areas you have created are displayed in each area frame. Also, even if you click an area which does not fall within any of the motion detection area frames in the Viewer, the setting area is set as "Not specified".

4 sec. (0 to 10)

8 - sec. (0 to 10)

1.0 sec. (0.1 to 1.0)

1.0 sec. (0.1 to 1.0)

**(4)** 

Camera Area Recording Output Audio/Tracking

Recording at ON event

Recording at OFF event 
Pre-event Recording Time:

Recording interval before event:

Post-event Recording Time:

Recording interval after event:

E-mail notification on recording ●
 Recording between ON event and OFF event ●

Recording interval between events : 10 = sec. (1 to 10)

# 5. Enter picture recording settings when the device detects motion (Recording tab).

Enter the settings for picture recording time and recording interval when the device detects motion (ON event) or when the device no longer detects motion (OFF event).

#### 1) "Recording at ON event"

Check for picture recording when the device detects motion (ON event).

#### 2 "Recording at OFF event"

Check for picture recording when the device no longer detects motion (OFF event).

#### Pre-event Recording Time (sec.)

For setting the required number of seconds within a range of 1-10 seconds for recording pictures before an ON or OFF event.

#### Recording interval before event (sec.)

For setting the interval of time for picture recording before an ON and OFF event within a range of 0.1-1.0 seconds.

#### Post-event Recording Time (sec.)

For setting the required number of seconds within a range of 1-10 seconds for recording pictures for a fixed time after an ON or OFF event.

#### Recording Interval after event (sec.)

For setting the interval of time for picture recording after an ON and OFF event within a range of 0.1-1.0 seconds.

#### 3 "E-mail notification on recording"

Check to send an e-mail containing the recorded image in conjunction with ON/OFF events.

#### 4 "Recording between ON event and OFF event"

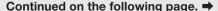
Check to insert an interval between picture recordings when the device detects motion (between ON events).

#### Recording interval between events (sec.)

For setting the length of the interval, in a range from 1-10 seconds, between picture recordings when the device detects motion (between ON events).



- See "Relationship between ON and OFF events and picture recording" (→ P.4-58) for the ON and OFF event and picture recording relationship of each item.
- See "Setting Up Name Server Address and Mail etc." (→ P.3-25) for addressing of mail messages and communication methods and "E-mail Notification Settings Dialog Box" (→ P.4-59) for setting content of e-mails.



# Enter the settings for output to an external device when the device detects motion (Output tab).

\* The settings in these steps are optional.

Set output to an external device when the device has detected motion (ON event) or when the device has finished detecting motion (OFF event).

① Output to External Devices 1-3
Check for Output to External Devices 1-3.

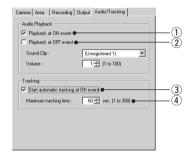
2 Output duration after OFF event (sec.)

When there is output to an external device, and it is necessary to continue with output ON after input is OFF, sets the time, within a range of 0-20 seconds.

# Set audio playback and automatic tracking when the device detects motion (Audio/ Tracking tab).

\* The settings in these steps are optional.

Set audio playback and automatic tracking when the device detects motion (ON event) or when the device has finished detecting motion (OFF event). Audio playback is a function which, during an ON event or OFF event, transmits audio from a speaker connected to the camera. Automatic tracking is a function where the camera tracks a moving object and records pictures when the device detects motion.



Camera Area Recording Output Audio/Tracking

Output duration after OFF event : 0 = sec. (0 to 20)

0 → sec. (0 to 20) €

0 + sec. (0 to 20)

✓ Output to External Device 1

☐ Butput to External Device 2

☐ Butput to External Device 3

Output duration after OFF event :

1) Audio playback at ON event

Check for audio playback when the device detects motion (ON event).

2 Audio playback at OFF event

Check for audio playback when the device has finished detecting motion (OFF event).

#### Sound Clip

Select the audio file to be played back.

#### Volume

Set the volume at which the audio is to be played back, between 1 and 100.

3 Start automatic tracking at ON event

Check for automatic tracking when the device has started motion detection (ON event).

4 Maximum tracking time (sec.)

Set the time for which automatic tracking is to continue, between 1 and 300 seconds.



- For registering and deleting audio files, see "Audio Playback Settings dialog box" (→ P. 4-60).
- If two or more objects are moving at the same time, the device will track the object with larger movement.
- If continuous tracking time is exceeded, the device returns to normal motion detection mode.

8. Check motion detection status in the server.

To confirm the operating level of motion detection with the settings you have made, check "Display Motion Detection Status of the Server". Motion detection status is displayed as the icon below

You cannot save the settings with "Display Motion Detection Status of the Server" checked. Remove the check to save the settings.



[Detection disabled]



[Detected]



[Not detected]



- Because the video distribution frame rate may be slowed when the data is sent via a proxy server, connection without using a proxy server is recommended while setting the motion detection.
- The motion detection settings should be adjusted and set in conditions that are as close as possible to those for actual operation.
- For detailed information on specifying the settings, see Page 6-6.

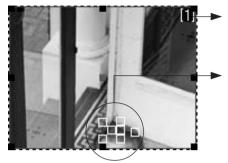


- The "Motion detected (peak block)", the motion detection status of the server and actual status of motion detection in this tool may not match completely.
- When "Display motion detection status of the server" option is selected, external device and log output, and picture recording are not performed.
- Because the Motion Detection Function detects motion by comparing consecutive image frames, small movements are less likely to be detected when the video quality ( $\rightarrow$  P.3-7) is poor.
- When the VB-C50i/VB-C50iR Motion Detection Function is enabled, the processing load on the VB-C50i/VB-C50iR is high. Consequently, the video distribution frame rate may be slower than when the function is disabled.
- 9. Click the "Save Settings" button in the Schedule Setting screen to save the settings, and close the Motion Detection Setting screen.

This completes the settings for motion detection.



# Motion detection status and screen display

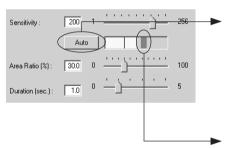


The area in which the VB-C50i/VB-C50iR is performing motion detection appears in a blue frame in the Viewer.

The selected sensitivity at which the VB-C50i/VB-C50iR is performing motion detection appears as a yellow or red rectangle in the motion detection frame.

**Yellow rectangle**: Where the device has detected motion, but because Area Ratio and Duration have not reached their setting value, the device does not detect motion.

**Red rectangle:** Where the device has detected motion, and Area Ratio and Duration has reached its setting value, the device detects motion.

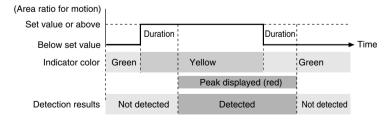


Where there is a variation in the image, the value set in Area Ratio is displayed as a vertical line in the indicator. The indicator displays in the following 2 colors.

**Green**: The area of the motion detected by the device has not reached Area Ratio.

**Yellow**: The area of the motion detected by the device has reached Area Ratio.

When "Sensitivity", "Area Ratio" and "Duration" are satisfied, and the VB-C50i/VB-C50iR detects motion and performs specified actions such as picture recording, a red peak block appears. You can set the degree of motion for which the peak block is displayed while monitoring the actual image.



When the situation where the motion has exceeded the area ratio continues for longer than the time set in "Duration", the VB-C50i/VB-C50iR detects motion and a peak block appears.

When there is motion detection and the peak block has appeared, only Duration will maintain motion detection status, even if less than the specified Area Ratio.



# Setting the motion detection level while checking recorded images

To set the level of motion detection at motion detection is activated, it is useful to make adjustments to settings while checking actual actions in the Viewer. Because with the device you can set the level of motion detection by checking in Video Mode the pictures recorded in Live Mode (→ P.4-41) in the Mode tab, you do no need to repeat the actual actions in front of the camera.

You cannot perform this operation if the OS of your PC is Windows 2000/Windows 2000 (SP1 to SP3).

1. Select Video Recording Options from Tools in the menu bar and the Video Recording Options setting dialog box is displayed.

#### Video Recording Options setting dialog box



- ① Maximum Recording Time (sec.)
  - Sets maximum recording time, for 60-300 seconds.
- 2 Self-timer (sec.)

Sets the time until recording starts after clicking "Rec. Start", from 0-30 seconds.

2. Align the camera position and click the "Rec. Start" button in Live Mode.

Recording of the picture in the Viewer starts. Record pictures necessary for adjusting the level of motion detection such as performing actions in front of the camera.

To stop recording, click the "Stop Recording" button.

- Adjust the motion detection level in the Area tab while checking the video in Video Mode.
- 1) List of recorded video

Displays a list of recorded video.

② "Delete" button

Deletes the selected video from the list.

③ Control buttons

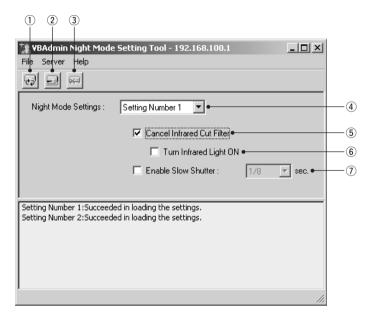
From the left, performs Move to Start, Rewind, Play, Fast Forward and Move to End. Check Loop Playback to repeat play back of the video.



# **Night Mode Setting Tool**

Below is a description of the Night Mode function with which you can take pictures in dark conditions.

# ■ Night Mode Setting Display Screen



#### 1) "Load Settings" button

Loads the Night Mode settings currently set in the VB-C50i/VB-C50iR.

#### 2 "Save Settings" button

Saves the Night Mode settings edited using this Tool.

After setting the Night Mode function, be sure to click the "Save Settings" button to save the settings.

#### 3 "Stop Communication" button

This button can be clicked during communication with the VB-C50i/VB-C50iR to cut the connection.

#### 4 Setting number selection box

Select the number of the setting you want to use.

#### (5) Cancel Infrared Cut Filter

Check to remove the camera's Infrared Cut Filter to enable shooting with black-and white images using infrared light.

#### **6 Turn Infrared Light ON**

Check to take photographs using the infrared light. You will see clearer images in darkness.

#### (7) Enable Slow Shutter

Check to select a shutter speed for the camera.

# ■ Setting Up Night Mode

#### To Make Settings...

1. With the Schedule Setting Tool, open the Night Mode Setting Tool.

In the Service tab of the Schedule Setting screen for a Normal or Special Schedule, check Night Mode, select a setting number and click the "Detail" button (→ P.4-38), or click the "Night mode setting tool" button on the toolbar.

If you have opened the Night Mode Tool from the toolbar, select a setting number from the setting number selection box in the Night Mode Setting screen.

2. Check Cancel Infrared Cut Filter.

For selecting ON and OFF of the infrared light and setting slow shutter.

3. Click the "Save Settings" button to save the settings and close the Night Mode Setting screen.



- If you have selected "Enable Slow Shutter", exposure will be manual, and aperture and gain will be at maximum.
  - Change the shutter speed and adjust brightness according to your operating environment and photographic subject.
- If you specify a shutter speed of 1/30 seconds or slower for NTSC, or 1/25 seconds or slower for PAL, auto focus will not operate.
- $\bullet$  When the Wide Converter has been set for use in "Camera and Video" ( $\rightarrow$  P. 3-7), the infrared light cannot be used.

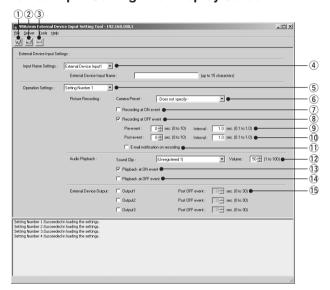


- In Night Mode, focusing with Auto Focus may be difficult or may appear to be out of focus.
- ullet "Auto (for domes)" and "Fixed at infinity" configured with Focus Mode ( $\to$  P.3-8) is not available if you check the "Cancel Infrared Cut Filter".

# **External Device Input Setting Tool**

Below is a description of the External Device Input function which performs video recording when a signal from an external device connected to the Multi-Terminal Module ( $\rightarrow$  P.1-11) such as a sensor is input into the device.

# ■ External Device Input Setting Tool Display Screen



#### 1 "Load Settings" button

Loads the External Device Input settings currently set in the VB-C50i/VB-C50iR.

#### 2 "Save Settings" button

Saves the External Device Input settings edited using this Tool.

After setting the External Device Input function, be sure to click the "Save Settings" button to save the settings.

#### 3 "Stop Communication" button

This button can be clicked during communication with the VB-C50i/VB-C50iR to cut the connection.

#### (4) Input Name Settings

Select an External Device Input 1 or 2 and enter an External Device Input Name.

#### (5) Setting number selection box

Select the number of the setting you want to use.

#### **6** Camera Preset

Select the camera position for picture recording. Select from "Not specified" or "registered preset names".

#### 7 Recording at ON event

Check to perform picture recording when there is ON input from the external device.

#### 8 Recording at OFF event

When selected, performs picture recording when input from the external device is OFF.

#### 9 Pre-event (sec.) and Interval

Enter the required number of seconds, within a range of 0-10 seconds for picture recording before an ON and OFF event. Also enter an interval for performing picture recording, within a range of 0.1-1.0 seconds.

#### 10 Post-event (sec.) and Interval

Enter the required number of seconds, within a range of 0-10 seconds for picture recording following an ON and OFF event. Also enter an interval for performing picture recording, within a range of 0.1-1.0 seconds.

#### 11) E-mail notification on recording

Check to send an e-mail of the recorded picture.

#### 12 Sound Clip and Volume

Set the audio for playback. Select from the registered sound clip names. Set the volume at which the audio is to be played back, between 1 and 100.

#### 13 Playback at ON event

Check for audio playback when there is ON input from an external device.

#### 14 Playback at OFF event

Check for audio playback when input from an external device is OFF.

#### (5) External Device Output 1-3 and Post OFF event (sec.)

Check to perform output to an external device at OFF event. Enter a time for performing output in the range of 0-30 seconds.

# ■ Setting Up External Device Input

#### To Make Settings...

1. With the Schedule Setting Tool, open the External Device Input Setting Tool.

In the Service tab of the Schedule Setting screen for a Normal or Special Schedule, check Input 1 or Input 2 in External Device Input, select a setting number and click the "Detail" button  $(\rightarrow P.4-38)$ , or click the "External input device setting tool" button on the toolbar.

If you have opened the External Device Input Tool from the toolbar, select an External Device Input Name and setting number in the External Device Input Setting screen.

#### 2. Perform picture recording operations.

Check either Recording at ON event or Recording at OFF event, and select a Camera Preset. Also, enter the required number of seconds and the interval for picture recording before or after an ON or OFF event.

If you check "E-mail notification on recording" you can send an e-mail of the recorded picture.



See "Setting up name server address and mail etc." (→ P.3-25) for the addresses of mail messages and communication methods and "E-Mail Notification Settings dialog box" ( $\rightarrow$  P.4-59) for setting content of mail messages.

#### 3. Specify the audio playback operation settings.

Check "Playing at ON Event" or "Playing at OFF Event" and select the playback sound name and volume.



For registering and deleting audio files, see "Audio Playback Settings dialog box"  $(\rightarrow P.4-60)$ .

4. Click the "Save Settings" button to save the settings and close the External Device Input Setting screen.

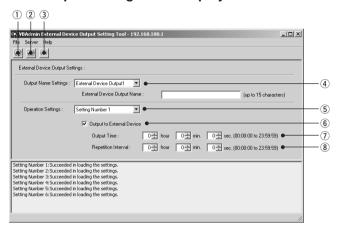


See "Relationship between ON and OFF events and picture recording" (→ P.4-58) for the ON and OFF events and picture recording relationship of each item.

# **External Device Output Setting Tool**

The section below describes the output settings to an external device connected to the Multi-Terminal Module ( $\rightarrow$  P.1-11).

# **■** External Device Output Settings Tool Display Screen



#### ① "Load Settings" button

Loads the External Device Output settings currently set in the VB-C50i/VB-C50iR.

#### 2 "Save Settings" button

Saves the External Device Output settings edited using this Tool.

After setting the External Device Output function, be sure to click the "Save Settings" button to save the settings.

#### 3 "Stop Communication" button

This button can be clicked during communication with the VB-C50i/VB-C50iR to cut the connection.

#### 4 Output Name Settings

Select an External Device Output 1-3 and enter an External Device Output Name.

#### **5** Operation settings

Select the number of the setting you want to use.

#### 6 Output to External Device

Perform output to the selected external device.

#### 7 Output Time

Set the length of time for output to the selected external device, to a maximum of 23 hours, 59 minutes and 59 seconds.

#### **8** Repetition Interval

Set the interval at which output is to be executed, to a maximum of 23 hours, 59 minutes and 59 seconds. If you set the Repetition Interval to 0, output only occurs once at the start of the scheduled time.

# ■ Setting Up External Device Output

To Make Settings...

1. With the Schedule Setting Tool, open the External Device Output Setting Tool.

In the Service tab of the Schedule Setting screen for a Normal or Special Schedule, check Output1-3 in External Device Output, select a setting number and click the "Detail" button  $(\rightarrow P.4-38)$ , or click the "External device output setting tool" button on the toolbar.

If you have opened the External Device Output Tool from the toolbar, select an External Device Output Name and setting number in the External Device Output Setting screen.

- 2. Check Output to External Device and set Output Time and Repetition Interval.
- 3. Click the "Save Settings" button to save the settings and close the External **Device Output Setting screen.**



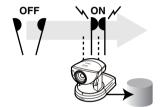
If you set Output Time at more than Repetition Interval, output continues without interruption.



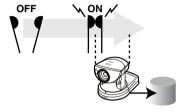
# Relationship between ON and OFF events and picture recording



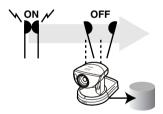
Below are methods (A-D) for picture recording with motion detection and external device input based on the timing of ON and OFF events.



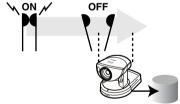
A: Pre-event recording for an ON event (for 0-10 seconds at intervals of 0.1-1.0 seconds)



B: Post-event recording for an ON event (for 0-10 seconds at intervals of 0.1-1.0 seconds)



C: Pre-event recording for an OFF event (for 0-10 seconds at intervals of 0.1-1.0 seconds)



D: Post-event recording for an OFF event (for 0-10 seconds at intervals of 0.1-1.0 seconds)

- For A and C, recording is controlled to the pre-event recording time, and for B and D, it is controlled to the post-event recording time.
- If you select "Recording between ON event and OFF event" in the motion detection settings, you can also record pictures during ON events (between B and C) (→ P.4-47).



# E-mail Notification Settings dialog box

When pictures have been recorded, you can send the recorded picture and data in an e-mail. Settings for sending mail messages are performed in the E-mail Notification Settings dialog box.

Select E-mail Notifications Settings from Tools in the menu bar in the Motion Detection Setting screen or External Device Input Setting screen and the dialog box appears.





- 1) Type of Notification
  - Select a notification setting from "Text only" or "Text and recorded picture".
- 2 Subject (up to 31 characters) Enter the subject of the e-mail.
- 3 Text (up to 255 characters)

Enter the text of the e-mail (text) in the text. The list of parameters below using the percentage symbol (%) can be included in the text of a "Text and recorded pictures" message.

Parameter	Description	Values
%n	Reason for shot (number)	1 (external device input 1), 2 (external device input 2), 129 (Motion detection)
%N	Reason for shot (text)	"External Device Input Name" ("External Device Input 1/2" if omitted), Motion detection
%X	Image width	No. of horizontal pixels
%Y	Image height	No. of vertical pixels
%Q	Video quality	1-99
%C	Camera number	1-2
%D	Camera name	"Camera Name" setting
%P	Pan position	-179.99 to 180.00
%T	Tilt position	-179.99 to 180.00
%Z	Zoom position	0.1 ~ 300
%V	Camera server	"Device Name" setting (or VB-C50i)
%у	Year of shot	2000-2038
%m	Month of shot	1-12
%d	Date of shot	1-31
%w	Day of shot	0-6 (correspond to Sun. to Sat.)
%H	Hour of shot	00-23
%M	Minute of shot	00-59
%S	Second of shot	00-59
%z	Time zone of shot	-1200 to +1200
%a	Weekday of shot	Sun, Mon, Tue, Wed, Thu, Fri, Sat
%b	Name of month of shot	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec
%t	Tab	
%q	1 11 1	
%%	'%'	-

<sup>\*</sup> For undefined characters, the '%' is deleted.

<sup>\*</sup> With the exception of %t, %q and %%, you cannot use the same parameter multiple times on the same line. (The parameter including '%' is ignored from the second instance onwards.)



# **Audio Playback Setting dialog box**

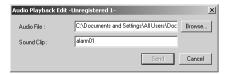
To play back audio, you have to register the audio file you want to play back. Settings for registering or deleting audio files are performed in the Audio Playback Setting dialog box. Select "Audio Playback Settings" from Tools in the menu bar in the Timer Settings screen, Motion Detection Setting screen or External Device Input Setting screen and the dialog box appears.

1. From the "Sound Clip List" in the Audio Playback Settings box, select the "Unregistered" item and click the "Edit" button.





2. The Audio Playback Edit dialog box appears. Click the "Browse" button



and select the playback audio you want to set.

- 3. Enter a name for the playback audio and click the "Send" button.
  - Click the "Close" button in the Audio Playback Settings dialog box to close the dialog box.
- You can set the audio file playback time up to 120 seconds, and you can only playback ".wav" and ".au" (μ-law, PCM 8bit. Sampling frequency 8000Hz, mono) files.
- To delete registered audio, select the playback audio you want to delete from the "Sound Clip List" and click the "Delete" button.

# Log Viewer

The Log Viewer is a tool for downloading log files, and viewing and managing the operating status of the device. The Log Viewer provides monitoring of illegal access and a way of dealing with errors etc



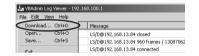


The Log Viewer is only for viewing logs. You cannot delete logs or download logs in file formats such as CSV with the Log Viewer.

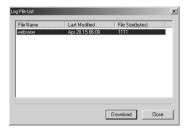
### ■ Downloading Log Files

#### How to download

1. When Log Viewer is started up from the VBAdmin Startup Panel, it automatically retrieves the most recent log file and displays it. To retrieve a list of log files, choose Download from the File menu.



When the list is retrieved, a list of log files appears in the dialog box. Select the log file you want to view by clicking on it, then click the Download button and the selected file will be downloaded.





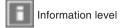
Click "Cancel" in the dialog box during downloading to stop the download.

# Viewing the Log

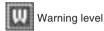
The following content is displayed in the log.

Code

The log displays error codes. For error codes, refer to Log Messages ( $\rightarrow$  P.7-4). Error codes are displayed with one of 4 types of icons according to level.









Date & Time

The date and time when the log was generated is displayed.

■ Message

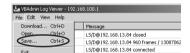
Log messages are displayed.

# ■ Saving a Log to a File/Opening a Saved File

You can save a displayed log to a file as well as view a previously saved log file.

To Save...

1. Choose "Save" from the "File" menu bar.



To View

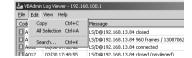
1. Choose "Open" from the "File" menu bar and select the log file you want to view.

# ■ Copying and searching a log

You can copy or search a displayed log.

То Сору...

 Select the log you want to copy by clicking on it, then choose "Copy" from the "Edit" menu bar.



To Search...

 Choose "Search" from the "Edit" menu bar, enter the character string you want to search and click the "Search" button.

# ■ Using Selection Criteria to Display Logs

Logs can be filtered according to error type, code, or date and time so that only the required information is displayed.

#### To Set Selection Criteria...

1. Choose "Filter" from the "View" menubar.



 The Filter dialog box appears.
 Set the following selection criteria and click "OK" to display only the logs that match those criteria.

If filtering is not required, click "Cancel".



#### [Error Type]

To filter by error type, check "Specify Type" or "Specify Code". Otherwise check "Not Specified".

- Specify Type
  - -Specifying the levels of the logs
    - From Error, Warning, and Information, select the error levels to be displayed.
  - Specifying the modules that output the logs
     From Application, HTTP Server, System, and Driver, select the output source modules to be displayed.
- Specify Code

Specify the error code of the logs. The error codes of the logs are compared to the characters that are entered and only logs with matching error codes will be displayed. For example, if "A0" is entered, logs whose error codes start with "A0" will be displayed.

#### [Date & Time]

Specify Start Date & Time

Logs generated after the specified date and time can be displayed by selecting this item and entering a date and time.

Specify End Date & Time

Logs generated before the specified date and time can be displayed by selecting this item and entering a date and time.



- There is no log message related to the driver in the VB-C50i/VB-C50iR.
- lacktriangle "Application" and "System" correspond to the log messages list ( $\rightarrow$  P.7-4).
- Application: Log messages related to applications (→ P.7-4).
   These log messages refer to applications such as WebView, picture recording and audio.
- System: Log messages related to the system ( $\rightarrow$  P.7-11).

# **Admin Viewer**

Admin Viewer is a viewer which has functions for managing the VB-C50i/VB-C50iR. It has special privilege functions that the Viewer for PC and Viewer for Java do not have, such as exclusive access to camera control functions, and external device and motion detection operation. This viewer is used when setting view restrictions and presets.

# [Special privileges of Admin Viewer]

- Connections are also possible outside service times (→ P.3-16).
- Connection time is unlimited.
- Exclusive camera control privileges. Invalidates control privileges held by and requests obtained from other viewers.
- Ignores view restrictions.
- Operates external devices and motion detection.
- External device input and motion detection notification (→ P.4-65).
- Camera control by clicking or using dialog boxes (→ P.4-67).
- You can set the camera-specific features and audio sending.



Click this button to obtain camera control privileges.

· Select camera presets

VR.(750) (320 v 240) 20 00fm



#### About the special privileges of administrators

Since Admin Viewer has more special privileges than the Viewer for PC and Viewer for Java, please keep in mind the following points when using Admin Viewer:

- Since connection time is unlimited, please exit the viewer after viewing.
- When camera control privileges have been obtained, Admin Viewer forcibly continues
  to obtain these privileges. After viewing, be sure to exit the viewer or click the Control
  button again to release these privileges.
- When making settings, keep in mind that the images outside the view restrictions are displayed also in Viewer for PC and Viewer for Java that are connected simultaneously with Admin Viewer.
- When making settings, keep in mind that images outside the view restrictions are displayed also in the Viewer for PC and Viewer for Java that are connected simultaneously with Admin Viewer.
- When sending audio, please read carefully "Usage Notice of Audio" (→ P.iii).



Since most operations and settings of Admin Viewer are common with the Viewer for PC, basic camera control and the like are omitted here. This chapter describes only the functions and operations that are unique to Admin Viewer.

The manual for the viewer is provided on the supplied CD-ROM (Viewer-E.pdf).



# Starting Up Admin Viewer

To Start Up...

1. Click the "Admin Viewer" on the VBAdmin Startup Panel or double-click the "Admin Viewer" icon on the desktop.

When the Admin Livescope window appears, click the File then the Connect. The "Camera server address setting" dialog box appears. Enter the following items:

- ◆ Host Name (The IP address set on the VB-C50i/VB-C50iR, → P.3-6)
- User Name (root) ullet Password ( $\rightarrow$  P.3-5)

Then click the "OK" button. The video will then be displayed.

# **Operating External Devices and Motion Detection**

# Setting Notification of Changes in External Device Input and Motion **Detection Status**

A message box can be displayed in the event of a change in external device input and motion detection status.

To Make Settings...

- 1. Choose Setup Properties from the View menu.
- 2. When the Setup properties dialog box appears, click the "Display option" tab.

Check to be sure the "Display notification message for external device input and motion detection" check box is selected, then click "OK".

A message appears in the event a change occurs in the external device input status or when motion is detected.









If the Admin Viewer window is minimized or in full-screen mode, the notification message for external device input appears after the normal display is restored. Also, this message is not displayed when the External Device Input & Motion Detect dialog box is displayed.

# ■ Displaying and Saving the External Device Input and Motion Detection Status

The external device input and motion detection status can be displayed and, when required, saved as a log.

#### To Set External Device Input...

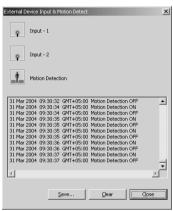
- Choose External Device Input from the Privilege menu.
- The External Device Input & Motion Detect dialog box appears and the external device input and motion detection status is displayed.

To save this content as a log, click "Save", then specify a file name and where it should be saved.

To clear the content in the display, click "Clear".

To close the dialog box, click "Close".





# ■ Operating External Device Output

The ON/OFF status of external device output can be changed.

#### To Set External Device Input...

- Click the "Start Control" button to get camera control privileges, then choose External Device Output from the Privilege menu.
- The External Device Output dialog box appears.

The external device output status can be changed using the ON/OFF buttons for each terminal.

To close the dialog box, click "Close".







Depending on the settings content, some operations are not available from Admin Viewer.

# **Enabling/Disabling View Restrictions**

View restrictions can be enabled or disabled when controlling the camera.

To Enable or Disable View Restrictions...

1. Choose either "ON" or "OFF" from View Restriction in the Privilege menu.



# **Operating a Camera**

The Admin Viewer provides camera control methods not available in the Viewer for PC or Viewer for Java.

#### Advanced Camera Control

In the dialog box, you can set the focus and speed, and control the pan, tilt and zoom by pressing the respective button to start and releasing the button to stop.

#### To Make Settings...

- 1. Click the "Advanced camera control" button on the toolbars.
- 2. The Advanced Camera Control box appears.
- 1) Pan & Tilt/Home buttons

Pan and Tilt movements occur in the direction of the arrows on the buttons. Operation occurs when the button is held down and stops when it is released. The center button is the Home button which, when clicked, returns the camera to its home position.

\* Not available with the VB-C50Fi.

② "AF/MF" button

Displays a dialog box for switching between Auto Focus and Manual Focus.

Auto: Auto focus.

Auto (for domes): For the camera used in combination with a camera dome so that auto focus does not focus on the camera dome wall surface.

Fixed at infinity: Enables focusing on infinity.

\* "Auto (for domes)" and "Fixed at infinity" is not available if you configure the Night Mode settings ( $\rightarrow$  P.4-69).

Manual: Hold Down the Far or Near buttons to adjust the focus.

③ "Speed" button

Displays a dialog box for camera operation speed.

Pan/tilt speed: Select a pan and tilt speed from Fast, Normal or Slow.

**Zoom speed:** Select a zoom speed from Fast or Slow.

Focus speed: Only available with the NU-700, select a focus speed from Fast or Slow.

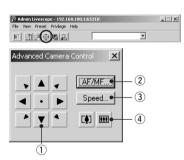
\* With the VB-C50Fi, you can only change the zoom speed.

4 "Zoom" button

Lets you zoom in or zoom out. Zoom occurs when the button is held down and stops when it is released.



When you set the "Focus Mode" to the "Fixed at Infinity", the VB-C50i/VB-C50iR zooms in and zooms back to adjust the focus automatically.



# ■ Clicking the Screen to Control the Camera

You can control the pan, tilt and zoom operations by clicking and holding the mouse in the viewer to start and releasing the mouse to stop.

To Make Settings...

Choose Setup Properties from the View menu.



2. When the Setup Properties dialog box appears, click the Camera Control tab.

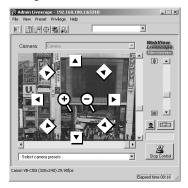
Check to be sure the "Use the arrow buttons to control the camera when connected to a VB-C50i/VB-C50iR or newer model" check box is selected, then click "OK".

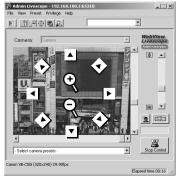


3. If the message "Try new property settings. OK?" appears, click "OK", and click the "Start Control" button to obtain camera control privileges.

Set the mouse cursor over the viewer. There are 8 arrows for making changes with the mouse cursor. There are also 2 central buttons, a plus icon on the left and a minus icon on the right, for making changes with the mouse cursor. In each case, click and hold to enable pan, tilt and zoom operations.

\* When using the VK-64, we recommend that you check "Use VK-64 compatible control".





When "Use VK-64 compatible control" is checked.

# **Camera-Specific Functions**

You can set up camera-specific features such as settings for exposure, digital zoom and night mode.

#### How to operate and set up

- Click the "Camera-specific features" button on the toolbar.
- The Camera-specific features dialog box appears.
- 1) Exposure

Select from Auto Exposure and Manual Exposure.

#### 2 Auto Exposure

The 4 buttons to the right become active when you select Auto Exposure. From the left the 4 buttons are No Backlight Compensation, Low Backlight Compensation, Medium Backlight Compensation and High Backlight Compensation, and the higher the compensation, the brighter the image becomes. Click a button to activate the backlight compensation you need.

#### 3 "Manual Exposure"

You can set Fixed Aperture, Fixed Shutter Speed and Fixed Gain.

#### **Fixed Aperture**

The further to the left you move the slide bar, the more closed the aperture and the darker the image. Conversely, the further to the right you move the slide bar, the more open the aperture and the brighter the image.

#### Fixed Shutter Speed

Fixes shutter speed. If you specify a fast shutter speed (1/125, 1/250 etc.), the darker the image becomes. Conversely, if you specify a slow shutter speed (1/8, 1/10 etc.) the brighter the image becomes.

#### **Fixed Gain**

The further to the left you move the slide bar, the lower the gain (sensitivity for brightness) and the darker the image. Conversely, the further to the right you move the slide bar, the higher the gain and the brighter the image.

#### 4 Digital zoom

You can enlarge the image using the digital zoom. When you use zoom, other images sent to the Viewer are enlarged also.

- \* Digital zoom is not available if you configure the "Manual Exposure" or Night Mode.
- (5) "Night vision"

Set up night mode with Night Vision.

#### Night Mode

Check to cancel the Infrared Cut Filter, enabling you to see infrared images. In such case, the images are in black and white.

\* "Auto (for domes)" and "Fixed at infinity" (→ P.4-67) is not available if you configure the Night Mode settings.

#### "Infrared Light" button

Click to turn on the infrared light built into the device and pictures taken in the dark become brighter. Click again to turn off the light.

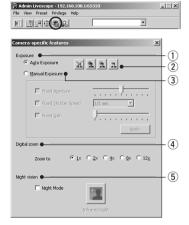
Not available when the Wide Converter has been set for use in "Camera and Video" ( $\rightarrow$  P.3-7).

\* Not displayed on the VB-C50Fi.

#### 6 Miscellaneous functions

If you have the NU-700 camera you can operate the ND filter and wiper. For more information, see the NU-700 user manual.

\* Only appears when using the NU-700.



# Sending audio

You can send audio with the VB-C50i/VB-C50iR through the speakers installed on the optional Multi-Terminal Module on the camera. Below are settings for sending audio by the administrator.

# **Sending Audio**

Perform settings for an administrator to send audio to the device.

# How to operate and set up

- Click the "Microphone setting" button on the toolbar.
- 2. The Microphone setting dialog box appears.
- 1 Microphone button

Click to turn on the administrator's microphone and enable transmission of audio. Click again to turn the microphone off and stop transmission.



"Play audio also when using the microphone"

You cannot use this feature because the VB-C50i/VB-C50iR does not support audio input.

- (2) Volume slide bar
  - Adjust the volume of the input in the microphone.
- 3 "Use silence detection to reduce network traffic" Select to temporarily stop transmission of audio data when the audio is turned to mute. In this way, you can reduce traffic on the network you are using.

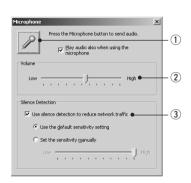
Use the default sensitivity setting: Operates at default sensitivity.

Set the sensitivity manually: Sets the sensitivity for detection by moving the slide bar. The further to the left you move the slide bar, the lower the degree of detection sensitivity and there will be silence detection if the sound is not softer. The further to the right you move the slide bar, the higher the degree of detection sensitivity and there will be silence detection if the sound is not louder.



Please make microphone settings in Windows for audio transmission.







- The "Microphone setting" button will not appear in the following cases.
- If Audio Reception has not been set up in the audio server settings (→ P.3-19).
- If "Send and receive audio data" in the "Starting protocol" tab in the Setup properties dialog box is not checked.
- When connected to a camera server which does not support audio.
- When you minimize the Viewer, audio transmission temporarily stops even if the "Microphone" button is on.
- If you activate another application with the "Microphone" button on, the task bar icon flashes.

# **Shade Correction**

If the background of an image is bright, making the subject difficult to see, you can adjust the contrast of the darker areas to make it easier to see. Unlike backlight compensation, the shade correction feature allows image processing without adversely affecting the existing lighter regions.

#### How to operate and set up

- Click the "Shade Correction" button on the toolbar.
- 2. The Shade Correction dialog box appears.
- Shade Correction
   Check for shade correction.
- ② Shade Correction slide bar Adjust the level of shade correction.





Shade Correction feature can be used on live video.



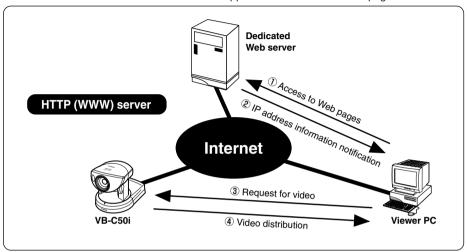
# Creating Web Pages for Video Distribution

This chapter describes how to use the VB-C50i/VB-C50iR to webcast information.

Picture data can be distributed in various ways, including displaying video or still pictures and displaying multiple images on a Web page.

# **Web Pages for Video Distribution**

To distribute picture data by VB-C50i/VB-C50iR, you create a dedicated Web page. The viewers that can be used with the VB-C50i/VB-C50iR are "Viewer for Java (with or without camera control function)" and "Viewer for PC", and detailed parameters can be specified for each of these. You need to determine which of these viewers is supported and create the Web page for the viewer.



If you select a link requesting video in step ①, a file that includes the IP address information for the VB-C50i/VB-C50iR is sent from the Web server in step ②. If you are using the Viewer for Java, the applet is downloaded to the viewer PC from the VB-C50i/VB-C50iR in response to the request in step ③ and the video is distributed.

#### ■ Example of a Web page for video distribution (VB-C50i/VB-C50iR's built-in page)



The above page is built into the VB-C50i/VB-C50iR and can be accessed from the URL below. http://192.168.100.1\*/

\* The underlined portion is a sample IP address. Enter the actual IP address set for the VB-C50i/ VB-C50iR (→ P.3-6).



The VB-C50i/VB-C50iR includes a built-in Web server. If the content of the Web pages used for distributing videos is stored onto the flash memory in the VB-C50i/ VB-C50iR, the VB-C50i/VB-C50iR can be used by itself for distributing Web pages and videos over the Web. Please refer to page 5-8 for procedures on how to save Web page data.



You can use the Language setting function for the Browser to create a multi-lingual Web site. For example, if you set the French-language top page as index-fr.html and the English-language top page as index.html and supply users with a URL address terminates in slash, such as http://192.168.100.1/sample/, the server will transmit a file that corresponds with the language setting for the Browser. For further information on the Language setting function for the Browser, refer to the Browser Help.

\* The underlined portion is a sample IP address. Enter the actual IP address set for the VB-C50i/VB-C50iR ( $\rightarrow$  P.3-6).

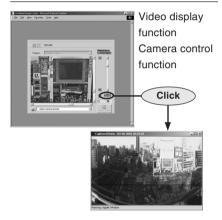
# **Viewer Overview**

There are 2 types of viewers: the Viewer for Java and the Viewer for PC. For a detailed explanation of the Viewers, please refer to "Viewer Software Overview" ( $\rightarrow$  P.2-12) or to the Viewer Software User's Manual (Viewer-E.pdf) on the CD-ROM.

## Viewer for Java

The Viewer for Java provides 2 types of viewers: LiveApplet containing video display and camera control functions, and Glimpse containing a video display function. Because both viewers use the WebView-HTTP transfer protocol, data can pass through firewalls with no need for special settings.

## **LiveApplet**



# Glimpse



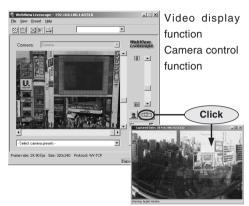
Video display function

\* 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

## Viewer for PC

The Viewer for PC provides video display and camera control functions. In addition to WebView-HTTP, the VB-C50i/VB-C50iR also supports Canon's WebView-TCP transfer protocol.



Panorama picture

\* You need to install the Viewer for PC from the "VBToolsInstall.exe" file on the supplied CD-ROM ( $\rightarrow$  P.2-11).



- Viewer Software User's Manual is provided on the CD-ROM supplied with the VB-C50i/VB-C50iR (Viewer-E.pdf).
- Use VB Administration Tools to create a panorama picture ( $\rightarrow$  P.4-7).

# **Viewing Sample Pages**

Ready-made video distribution sample pages are provided with the VB-C50i/VB-C50iR. Follow the procedure below to view these pages. Refer to these pages when creating your own Web pages.

## Viewing the Pages

1. Launch your Web browser and enter the following URL:

## http://192.168.100.1/sample/

- \* The underlined portion is a sample IP address. Enter the actual IP address set for the VB-C50i/VB-C50iR  $(\rightarrow$  P.3-6).
- 2. The following pages appear. Click the sample pages you wish to view.



## ■ Examples of sample pages

## JavaApplet sample 1



This is a LiveApplet sample page which distributes live videos and allows users to control the camera.

## JavaApplet sample 2



This is a sample page which combines LiveApplet and Glimpse.

## Still picture request page using JavaScript



This is a sample page which displays a live still picture.

# Using the Viewer for Java to Distribute Videos

This section describes how to use the Viewers for Java to provide videos. Application examples are also given.

# Using the Viewer for Java to Create a Web Page

When you use the Viewer for Java, the viewer applet to be used must be incorporated into the Web page you provide. However, this is not especially difficult. The page can be created using the HTML normally used to include an applet.

## LiveApplet

```
<applet codebase="http://192.168.100.1/-wvdoc-01-/LiveApplet/"
  code="LiveApplet.class" archive="LiveApplet.zip"
  width=450 height=380>
                    value="http://192.168.100.1/">
<param name=url</pre>
<param name=cabbase value="LiveApplet.cab">
</applet>
```

## Glimpse

```
<applet codebase="http://192.168.100.1/-wvdoc-01-/Glimpse/"
  code="Glimpse.class" archive="Glimpse.zip"
  width=160 height=120>
<param name=url</pre>
                   value="http://192.168.100.1/">
<param name=cabbase value="Glimpse.cab">
</applet>
```

Enter the attributes of the applet between the <applet> and </applet> tags.

Enter the Applet parameters using the <param> tag.

\* The underlined portion is a sample IP address. Enter the actual IP address set for the VB-C50i/VB-C50iR  $(\rightarrow P.3-6)$ .

# **Saving Web Page Data**

The VB-C50i/VB-C50iR is equipped with a Flash memory where Web page data can be saved. Data is saved by transferring the data files using FTP. The data is placed as a file under /usr/html/local.

Device	File system (accessed by an ftp client)	URL (accessed from a Web browser)
On-board flash memory	ftp://IP address/usr/html/local	http://IP address/local/

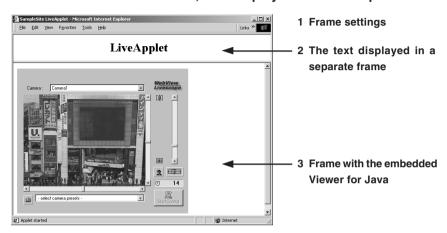


The output performance may be lowered when there is not enough free space on the on-board file system. Please be sure to place the minimum required amount of data on the on-board file system ( $\rightarrow$  P.3-28).

# **Example of Using the Viewer for Java to Create a Web Page**

This section describes an example in which the Viewer for Java is used to create a Web page. Use this example to create your own original Web page.

## ■ Embed the Viewer for Java, and Display a Text in a Separate Frame





#### Writing IP Addresses

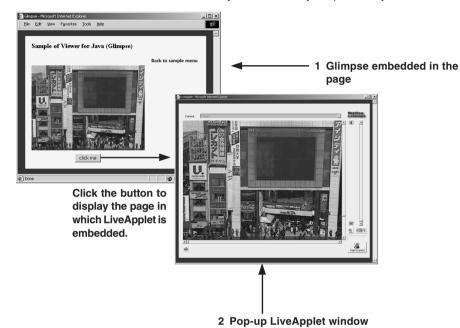
Using the Web server functions built into the VB-C50i/VB-C50iR, IP addresses can be expressed as <\_I\_P\_A\_D\_D\_R\_> (all upper-case characters, including the angle brackets) or as < W\_E\_B\_S\_E\_R\_V\_E\_R\_> (html-compatible only, all in upper-case characters, including the angle brackets) in the 3 file types (html, wvh and wvp) used by the Web server in the VB-C50i/VB-C50iR.

Since <\_I\_P\_A\_D\_D\_R\_> or <\_W\_E\_B\_S\_E\_R\_V\_E\_R\_> is replaced with the actual address when the VB-C50i/VB-C50iR is accessed, the Web page does not need to be changed even when the VB-C50i/VB-C50iR's IP address is changed. NAT can also be supported by specifying a global address for the Web page  $(\to P.5-26)$ .

```
sample.htm
<html>
<head>
<title>SampleSite LiveApplet</title>
</head>
<frameset rows="70.*">
<frame src="header.htm">
<frame src="lvappl.htm">
</frameset>
 </html>
header.htm
<html>
<head>
<title>LiveApplet comment</title>
</head>
<body>
<center><h1>LiveApplet</h1></center>
</body>
</html>
Ivappl.htm
<html>
<head>
<title>LiveApplet</title>
</head>
<body>
<applet codebase="http://< W E B S E R V E R >/-wvdoc-01-/LiveApplet/"
   code="LiveApplet.class" archive="LiveApplet.zip"
   width=450 height=380>
<param name=cabbase value="LiveApplet.cab">
<param name=url value="http://<_W_E_B_S_E_R_V_E_R_>/">
</applet>
</body>
</html>
```

## ■ Using Glimpse and LiveApplet Together

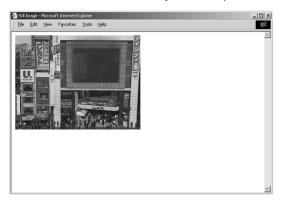
This section describes how to create a Web page that allows clients to use Glimpse to download quickly and view live video at a low frame rate, and then use LiveApplet to view video at a high frame rate and control the camera when they find videos they are particularly interested in.



```
glimps.htm
   <html>
   <head>
   <script language="JavaScript">
   <!--
   function clicked(btn) {
      url = btn.name
      window.open(url,"LiveApplet","width=490,height=400")
   // -->
   </script>
   <title>Glimpse</title>
   </head>
   <body>
   <form name="form">
   <center>
   <applet codebase="http://< W E B S E R V E R >/-wvdoc-01-/Glimpse/"
      code="Glimpse.class" archive="Glimpse.zip"
      width=160 height=120>
   <param name=cabbase value="Glimpse.cab">
   <param name=url value="http://<_W_E_B_S_E_R_V_E_R_>/">
   </applet>
   </center>
   <center>
   <input type="Button" name="popup.htm" value="click me"
   onClick="clicked(this)">
   </center>
   </form>
   </body>
   </html>
2 popup.htm
   <html>
   <head>
   <title>LiveApplet</title>
   </head>
   <body>
   <center>
   <applet codebase="http://< W E B S E R V E R >/-wvdoc-01-/LiveApplet/"
      code="LiveApplet.class" archive="LiveApplet.zip"
      width=450 height=380>
   <param name=cabbase value="LiveApplet.cab">
   <param name=url</pre>
                          value="http://<_W_E_B_S_E_R_V_E_R_>/">
   </applet>
   </center>
   </body>
   </html>
```

## ■ Providing "LiveApplet" without Camera Control

This section describes how to create a Web page that only displays live video and has no camera control GUI for situations where you want to prohibit camera control.



```
<applet ..... width=320 height=240>
<param name=controller style value="none">.....
```

specifies the camera control user interface.

"normal": The usual style.

"preset only": Preset operation only is displayed.

"none": Not displayed.

## ■ Modifying the Startup and Disconnection Screens

You can modify the image files (JPEG or GIF image files) shown in the startup and disconnection screens.

## Nothing Specified

## Startup screen



#### Disconnection screen



## ■ Certain Images Specified

## Startup screen



## Disconnection screen



If no particular image is specified, the "connecting to hostname" (when the hostname parameter is specified) or "now connecting" animation is displayed at startup and the "disconnected hostname" (when the hostname parameter is specified) or "disconnected" is displayed at disconnection. You can modify the screens to show any image by providing images for the startup and disconnection screens and setting the parameters. The image size is automatically adjusted to the size specified in the video\_width parameter. The display time for the specified screen at startup can also be specified.



- ① specifies the file name for the startup image screen.
- ② specifies the display time for the startup image screen (in milliseconds).
- 3 specifies the file name for the disconnection image screen.

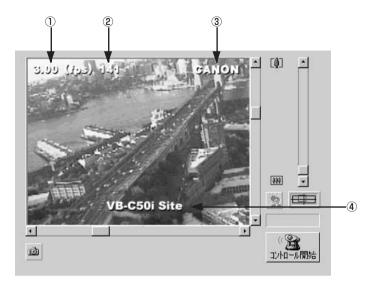


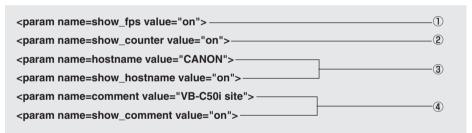
You must use the absolute path name (name that begins with "/") to specify the path for the image file displayed ( $\rightarrow$  P.5-8).



- At startup, the default character string that is displayed while a connection to the VB-C50i/VB-C50iR is being established is "now connecting", but there is also a parameter called "connect\_msg" for changing this character string. For additional parameters for changing display character strings, see page 5-17.
- If the user's service time has been set (→ P.3-16), screen images are not displayed outside the specified time.

## ■ Displaying the Host Name, Frame Count and Other Information on the Video Screen





① specifies whether the frame rate is displayed on the screen.

"on": Displayed.

"off": Not displayed.

2 specifies whether the frame count is displayed on the screen.

"on": Displayed.

"off": Not displayed.

3 specifies the host name (any text string) to be displayed on the screen and whether the host name is displayed.

"on": Displayed.

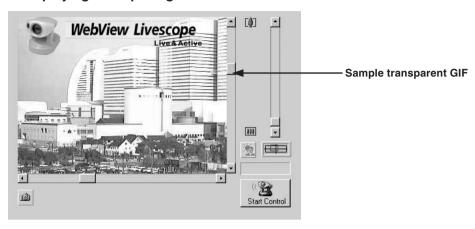
"off": Not displayed.

4 specifies a comment to be displayed on the screen and whether the comment is displayed.

"on": Displayed.

"off": Not displayed.

## ■ Displaying Bitmap Images on the Video Screen



## <param name=superimpose value="/local/logos/newlogo.gif,0,0">

## ■ Specifying the Background Color

## ■ Pasting a Picture to the Background

- specify the displayed picture file.
- 2 specify to display it at x,y (underlined portion).

<sup>\*</sup> The underlined portion "x,y" specifies the display position. When x,y = 0,0, the image is displayed in the top left corner. If "x,y" is omitted, the image is displayed in the center of the frame.

## **Viewer for Java Parameters**

You can specify applet parameters to provide an applet tailored to modify the behavior or appearance of applets. Refer to the table below to ensure that you thoroughly understand the parameters.

## ■ LiveApplet

Parameter Name	Omissible	Description
auto_connect	Yes	Specifies whether or not connection to the camera server should be established at the same time that the applet starts up. Select "on" or "off". When "on" is selected, connection is established when the applet starts up and moving pictures are displayed. With "off", the connection is not established when the applet starts up and the character string that was specified with the "no_connect_msg" parameter is displayed. The "connect()" method is called up to establish connections.
bg_color	Yes	Use this parameter to set the background color. The parameter specification format is "#RRGGBB" (values between 0 and 255 for each component color expressed as a hexadecimal).  Eg. White: "#FFFFFF", Grey: "#AAAAAA", Green: "#00FF00"  If this parameter is omitted, the default background color is used.
bg_image	Yes	The picture displayed in the background of LiveApplet can be specified. A JPEG or GIF file can be specified. The WebView Livescope logo is not displayed if specified. If not specified, the default picture is used. (Refer to image_offset about the display position.)
capture_size	Yes	Specifies the size of the image when LiveApplet is started. There are 4 sizes: $80\times60$ , $160\times120$ , $320\times240$ and $640\times480$ for NTSC, and $96\times72$ , $192\times144$ , $384\times288$ and $768\times576$ for PAL. The default is the specified size in the Video Transmission of the Camera and Video Setting Page ( $\rightarrow$ P.3-7). capture_size is unrelated to the size of the image displayed on the monitor of your PC. To change the size of the image on the monitor, specify video_width.
click_action	Yes	Specifies behavior when a moving picture display area is clicked. "pt" specifies pan and tilt; "none" specifies no reaction. The default is "pt".
close_image	Yes	You can use this parameter to specify the screen displayed in the video display window at the time of disconnection. Specify the name of a JPEG or GIF file. If this parameter is omitted, the default disconnection screen is displayed.
comment	Yes	This parameter specifies the comment text string displayed as an overlay on the applet. If this parameter is omitted, no comment is displayed.
connect_msg	Yes	Specifies the character string that is displayed while connection to the camera server is being established. The default is "now connecting".
controller_style	Yes	Specifies the GUI style for controlling the camera. "normal" specifies the usual GUI style; "preset_only" specifies preset operation only; "none" specifies that the entire GUI will not be displayed. With "preset_only", only the Start Control button, the Camera Control Status window, the Preset Selection Box, and the Snapshot button are displayed.
disconnect_msg	Yes	Specifies the character string that is displayed when the connection to the camera server is cut. The default is "disconnected".
error_msg	Yes	Specifies the character string that is displayed when connection to the camera server has failed. The default is "can't connect".
font_size	Yes	Specifies the display size for connect_msg, disconnect_msg, error_msg, no_connect_msg, and too_many_msg. The default makes size dependent on the display area.

Parameter Name	Omissible	Description
gui-type	Yes	Specifies whether the panorama window should be pop-up displayed or embedded in the page. Specify "embed" for making it an embedded display. When specifying "embed", the Width and Height of the applet tags must be specified a little larger (Eg. width=500; height=660).
hostname	Yes	This parameter specifies the host name displayed in the applet. This value is used as the host name in messages displayed during connection, etc. If this parameter is omitted, no host name is displayed.
image_offset	Yes	Specifies the display position of the picture file specified at bg_image. With the upper left coordinates of the picture at "0,0" and the right direction given as x and the down direction as y, image_offset is specified as "x,y". The default is "335,0".
no_connect_msg	Yes	Specifies the character string to be displayed following applet startup when auto_connect is "off". The default is "no connection".
open_image	Yes	You can use this parameter to specify the screen that appears in the video display window until the first video image appears. Specify the name of a JPEG or GIF file. If this parameter is omitted, the default startup screen is displayed.
open_image_time	Yes	When a startup screen is specified in the "open_image" parameter, this parameter specifies the display time. The time is specified in milliseconds (1/1000 sec.), and the default value is 0. The image is displayed until the first video frame appears. Values from 0 to 30000 (30 seconds) can be specified.
overlay_font_color	Yes	Specifies the color of the character string specified for "comment" and "hostname". The color is specified at "#RRGGBB". The default is yellow.
show_capture	Yes	This function specifies whether the Snapshot button is displayed. Specify "on" or "off". The default value is "on". The button is always displayed unless "off" is explicitly specified.
show_comment	Yes	This function displays the comment as an overlay on the video image. Specify "on" or "off". The default value is "off".
show_counter	Yes	This function displays the frame count as an overlay on the video image. Specify "on" or "off". The default value is "off".
show_fps	Yes	This function displays the frame rate as an overlay on the video image. Specify "on" or "off". The default value is "off".
show_hostname	Yes	This function displays the host name as an overlay on the video image. Specify "on" or "off". The default value is "off". Note that this parameter is only valid if the "hostname" parameter is specified.
show_logo	Yes	Specifies whether or not the WebView Livescope logo should appear in the upper right of the screen. It appears if show_logo is "on" and does not appear if it is "off".
show_panobutton	Yes	Specify whether or not to display the panorama window pop-up button.
show_toolbar	Yes	Function for displaying the buttons to change the image size when LiveApplet is running. Specify "on" or "off". The default value is "off".
superimpose	Yes	This function displays a bitmap image as an overlay on the video image. Specify the image using the "bitmap-filename,x,y" format. Use the GIF format for bitmap images (transparent GIFs supported). The "x,y" parameters specify the coordinates of the bitmap image position on the video frame. If "x,y" is omitted, the image is displayed in the center of the video frame.
too_many_msg	Yes	Specifies the character string that is displayed when connection to the camera server fails because the limit on the number of connections was exceeded. The default is "too many clients".
url	No	Specify the URL of the HTTP server for applet access. Specify the IP address and port number that match those specified in the codebase attribute.
video_width	Yes	This parameter specifies the video image display size (in pixels). Specify the width. The display sizes are 80 to 640, and any value can be set as the width. The height is calculated as $3/4$ of the specified width. Eg. video_width="240" (height = $240 \times 3/4 = 180$ .)

# ■ Glimpse

Parameter Name	Omissible	Description
auto_connect	Yes	Specifies whether or not connection to the camera server should be established simultaneously with applet startup. Specify either "on" or "off". When "on", a connection is established simultaneously with applet startup; when "off", no connection is established when the applet starts up and the character string specified for no_connect_msg is displayed. The connect() method is called up in order to make connections.
capture_size	Yes	Specifies the size of the image when Glimpse is started. There are 4 sizes: 80 $\times$ 60, 160 $\times$ 120, 320 $\times$ 240 and 640 $\times$ 480 for NTSC, and 96 $\times$ 72, 192 $\times$ 144, 384 $\times$ 288 and 768 $\times$ 576 for PAL. The default is the specified size in the Video Transmission of the Camera and Video Setting Page ( $\rightarrow$ P.3-7). capture_size is unrelated to the size of the image displayed on the monitor of your PC. To change the size of the image on the monitor, specify with width and height of the applet tag.
comment	Yes	This parameter specifies the comment text string displayed as an overlay on the applet. If this parameter is omitted, no comment is displayed.
connect_msg	Yes	Specifies the character string to be displayed while a connection to the camera server is being established. The default is "now connecting".
disconnect_msg	Yes	Specifies the character string to be displayed when a connection to the camera server is disconnected. The default is "disconnected".
error_msg	Yes	Specifies the character string to be displayed when an attempt to connect to the camera server has failed. The default is "can't connect".
font_size	Yes	Specifies the font size for connect_msg, disconnect_msg, error_msg, and no_connect_msg, when these messages are displayed. The default is to depend on the display area.
hostname	Yes	This parameter specifies the host name displayed in the applet. This value is used as the host name in messages displayed during connection, etc. If this parameter is omitted, no host name is displayed.
no_connect_msg	Yes	Specifies the character string to be displayed after the applet starts up, if "off" is specified for auto_connect. The default is "no connection".
show_counter	Yes	This function displays the frame count as an overlay on the video image. Specify "on" or "off". The default value is "off".
show_hostname	Yes	This function displays the host name as an overlay on the video image. Specify "on" or "off". The default value is "off". Note that this parameter is only valid if the "hostname" parameter is specified.
sleep	Yes	This parameter specifies the interval (in milliseconds) at which the screen is updated. If this parameter is omitted, the screen is updated at 5-second intervals. Because the Glimpse applet is designed to be used for displaying multiple sites as a list, this parameter is provided as a means of reducing the processing load. Intervals between 0 and 300,000 ms (5 minutes) can be set. If 0 is specified, the interval is not adjusted.
url	No	Specify the URL of the HTTP server for applet access. Specify the IP address and port number that match those specified in the codebase attribute.

## ■ Applet Tag Descriptions

Attribute Name	Omissible	Description
archive	Yes	Specify LiveApplet.zip or Glimpse.zip.
code	No	This parameter specifies the applet file name. Enter "LiveApplet.class" or "Glimpse.class". If this parameter is not specified correctly, the applet (LiveApplet or Glimpse) is not downloaded.
codebase	No	This parameter specifies the directory that contains the applet.  http://HTTP server IP address: port number/directory/  If this parameter is not specified correctly, the applet (LiveApplet or Glimpse) is not downloaded.  Directories are fixed for each applet.  Directory (LiveApplet)=-wvdoc-01-/LiveApplet  Directory (Glimpse)=-wvdoc-01-/Glimpse
height	No	This parameter specifies the size of the area acquired for the applet (in pixels). For LiveApplet, if the value specified is smaller than the LiveApplet drawing area, the applet may not be displayed correctly. If the camera control function GUI is to be added (controller_style=normal), add about 140 to the value. Eg. For an image size of $320 \times 240$ , height=380. For Glimpse, because the areas used for the applet and for the video display are the same size, specify the same value as the image height. Eg. For an image size of $320 \times 240$ , hright=320.
width	No	This parameter specifies the size of the area acquired for the applet (in pixels). For LiveApplet, if the value specified is smaller than the LiveApplet drawing area, the applet may not be displayed correctly. If the camera control function GUI is to be added (controller_style=normal), add about 130 to the value. Eg. For an image size of 320 × 240, width=450. For Glimpse, because the areas used for the applet and for the video display are the same size, specify the same value as the image width. Eg. For an image size of 320 × 240, width=320.



When specifying an address included in the codebase attribute of the applet tag and a URL parameter of the LiveApplet, specify one that can be accessed from the client's PC. This is particular necessary when using NAT ( $\rightarrow$  P.5-26).

# Using the Viewer for PC to Distribute Videos

This section describes how to use the Viewer for PC to provide videos. Application examples are also given.

If a client is using the Viewer for PC to receive videos, the video sender must set up the Web server and create the necessary wvh files.



- The settings below are not required if the VB-C50i/VB-C50iR's built-in Web server is used.
- See page 5-8 for saving Web page data.

# **Setting Up the Web Server**

Set up the Web server to be used for providing Web pages. Add the MIME type to the Web server software and specify the extension. Refer to the manual for your Web server software for details.

MIME type video/x-webview-h

Extension wvh

#### For Apache

In the settings for added the MIME type in Apache, edit the "mime.types" file in the "conf"

• Use the following syntax to add the required MIME type to the PC:

type/subtype extension

The settings for Viewer are as follows:

video/x-webview-h wvh



If the MIME setting is not specified correctly for the Web server, you may not be able to launch the Viewer for PC. Be sure to specify the setting correctly.

# **Creating wvh Files**

This section describes how to create the wvh file required for launching the Viewer for PC application.

1. Use a text editor or similar program to create a new text file and type the following type of code in the file:

(Example) 192.168.100.1 65310

192.168.100.1 65311

wvhttp: 192.168.100.1 80

- \* The underlined portion is a sample IP address. Enter the actual IP address that was set on the VB-C50i/VB-C50iR ( $\rightarrow$  P.3-6).
- •The first line gives the IP address (or host name) of the VB-C50i/VB-C50iR and the TCP port number used for the video transmission. The default setting is 65310 (→ P.3-18). The default setting will be used if no particular value is specified.
- The second line gives the IP address (or host name) of the VB-C50i/VB-C50iR and the TCP port number used for the camera control. The default setting is 65311 (→ P.3-18). The default setting will be used if no particular value is specified.
- ●The third line gives the setting for the Viewer for PC to use HTTP protocol. After "wvhttp:", type in the IP address of the VB-C50i/VB-C50iR and "80" as the HTTP port number. As a result of this, you will be able to view video from the VB-C50i/VB-C50iR through firewalls.



Instead of an IP address, you can also type in  $<_IP_A_D_R> (\rightarrow P.5-9)$ .

Example: <\_I\_P\_A\_D\_D\_R\_> 65310

<\_I\_P\_A\_D\_D\_R\_> 65311 wvhttp:< I P A D D R > 80

After you save the text file and quit the text editor program, create a wvh file by changing the file name and extension.

Be sure to add the ".wvh" extension, as in "WebView.wvh".



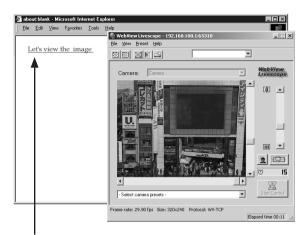
Viewer for PC supports WebView Livescope protocol and HTTP protocol.

- WebView Livescope protocol:
   Cannot be viewed through firewalls. This protocol is primarily for clients who are connected directly to the Internet.
- HTTP protocol:

In general, this protocol is used with Web browsers. By using this protocol, clients inside firewalls can view video by penetrating fire walls. The Viewer for Java also uses this protocol.

# Example of a Web page Using the Viewer for PC

This section describes a sample Web page in which the Viewer for PC is used.



1 Click the link to launch the Viewer.

Include the tags that link to the wvh file in the text or images in the Web page.

<A HREF="WebView.wvh">Let's view the image</A>



To use the sample page template in the VB-C50i/VB-C50iR to supply videos, specify <A HREF=http://IPaddress/top/default.wvh>.

# **Distributing Videos Using a Browser Only**

You can also use the WebView-HTTP protocol to provide videos from the VB-C50i/VB-C50iR directly to a Web browser. Some example of this are described in this section.

# Displaying the Live Video at Access as a Still Picture

When a client accesses the Web page that provides videos, the video shot at that point can be supplied as a still picture.



<IMG SRC=http://<u>192.168.100.1</u>/-wvhttp-01-/GetStillImage> (or)

<IMG SRC=http://192.168.100.1/-wvhttp-01-/GetOneShot>

# Displaying a Specified Number Of Live Video Frames As a Video at Access

The Server Push format provided as an extended function by Netscape Communications Corp. can be used to distribute multiple-frame images. However, these images can only be displayed on Netscape Navigator. In the coding example below, 100 frames of live video are distributed when the client accesses the server.



## <IMG SRC=http://192.168.100.1/-wvhttp-01-/GetOneShot?frame\_count=100>

\* The underlined portion is a sample IP address. Enter the actual IP address set for the VB-C50i/VB-C50iR (→ P.3-6).



Setting frame\_count=no\_limit removes the limits on the number of image frames.

<sup>\*</sup> The underlined portion is a sample IP address. Enter the actual IP address set for the VB-C50i/VB-C50iR (→ P.3-6).

# Displaying Live Video from a Specified Angle as Still Pictures

By specifying the camera angle as a parameter in the HTML code beforehand, you can display the picture from a specified camera angle. The example below displays a still picture shot with the camera panned right by 40° and tilted down 10°.

## <IMG SRC=http://192.168.100.1/-wvhttp-01-/GetStillImage?p=40&t=-10>

\* The underlined portion is a sample IP address. Enter the actual IP address set for the VB-C50i/VB-C50iR (→ P.3-6).

## ■ GetStillImage Parameters

Parameter	Description
<b>p</b> or <b>pan</b>	Specifies the camera pan angle. "p" is a 1° unit, and "pan" is a 0.01° unit.  For example if the camera pans right 20°, then p is 20 and pan is 2000. If this parameter is omitted, the camera pan angle is not controlled.
t or tilt	Specifies the camera tilt angle. "t" is a 1° unit, and "tilt" is a 0.01° unit. If this parameter is omitted, the camera tilt angle is not controlled.
z or zoom	Specifies camera zoom. "z" is ten times the zoom ratio of the widest angle, and "zoom" is the view angle in 0.01° units (horizontal direction). If this parameter is omitted, camera zoom is not controlled.
b or back_light	Specifies camera backlight compensation. When this parameter is set to on, the picture captured will be bright and when this parameter is set to off, the picture captured will be dark. If this parameter is omitted, camera backlight compensation is not controlled.
delay	Waiting time until camera focus is stabilized (in milliseconds).  Specified in the range 0 to 10000.
option	Specifies how errors are dealt with. When "skip_on_error" is specified, the process will be continued. When "quit_on_error" is specified, the process will be aborted. The following errors can occur: failure to acquire camera control right, loss of camera control, camera selection errors and camera control errors. To omit, the default value is "quit_on_error".
seq	Allows any number (sequence number) to be specified to avoid displaying old still pictures (numeric value).
v or image_size	Specifies picture display size. This can be set to $160 \times 120$ , $320 \times 240$ , and $640 \times 480$ for NTSC, and $192 \times 144$ , $384 \times 288$ , and $768 \times 576$ for PAL. The formats for specifying "v" and "image_size" are different: "v" specifies the horizontal dimension only and uses the format "v=640", for instance, while "image_size" specifies both horizontal and vertical dimensions and uses the format "image_size=320 $\times$ 240", for instance.

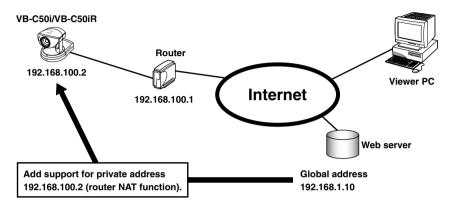


If old still pictures are displayed, you can prevent this recurring by specifying a sequence number in the seq parameter.

# **Example of Video Distribution Using One Global Address**

One fixed global address is required if the VB-C50i/VB-C50iR is being used to distribute live videos on the Internet. An Internet service provider (ISP) that offers a single-address fixed global address service can be used. In this case, a router with NAT function is required.

Example: In this example, we use the global address 192.168.1.10 assigned by the ISP. We also set the local address 192.168.100.2 in the VB-C50i/VB-C50iR (and 192.168.100.1 for the router).



A sample page of the VB-C50i/VB-C50iR is automatically generated based on the IP address that was actually assigned (192.168.100.2 in this case). In this case, this page cannot be viewed in the Viewer for Java or the Viewer for PC when "http://192.168.100.2/sample/" is accessed through the Internet.

Set "Global Address for Web Pages" ( $\rightarrow$  P.3-17) to 192.168.1.10. If you are not using the VB-C50i/VB-C50iR's Web server, describe the Web pages for distributing videos as follows:

Set the Viewer for Java description ( $\rightarrow$  P.5-7) as follows:

```
<applet codebase="http:// 192.168.1.10/-wvdoc-01-/LiveApplet/"
code="LiveApplet.class" archive="LiveApplet.zip"
width=450 height=380>
<param name=url value="http:// 192.168.1.10/">
<param name=cabbase value="LiveApplet.cab">
</applet>
```

Set the wvh file description of the Viewer for PC ( $\rightarrow$  P.5-22) as follows:

192.168.1.10 65310 192.168.1.10 65311 wvhttp:192.168.1.10 80

\* The underlined portion is a sample IP address. Enter the actual IP address set for the VB-C50i/VB-C50iR (→ P.3-6).



Contact respective manufacturers for details on setting the router.

# Distributing Still Images to a Mobile Phone

You can view still images and control the camera using the Web service of a mobile phone. You can easily create still image distribution pages for mobile phones with HTML which uses the command still.jpg. Sample pages for still image distribution for mobile phones have been provided for the VB-C50i/VB-C50iR. See below for how to view them.

## 1. Start up your browser and enter the following URL.

## http://192.168.100.1:80/mobile/index.html

\* The underlined portion is a sample IP address:HTTP port number. Enter the actual IP address and HTTP port number that were set on the VB-C50i/VB-C50iR (→ P.3-6, 3-17).

## 2. The sample page appears.

The sample page has been created in such a way that you can control the camera. Adjust the camera direction, zoom and brightness. You can perform the operation corresponding to each key by pressing the dial keys on your mobile phone.



- (5)Reload
- (2)Up (8)Down
- (4)Left (6)Right
- (1)Wide (3)Tele
- (0)Brightness
- (#)External Cam



- Depending on the model of the mobile phone, there may be cases where the images do not appear or where it is not possible to control the camera.
- Some mobile phones have limited functionality. For more details, see the WebView Product web page:

http://www.canon.com/webview



- You can control the camera only when other users do not have control privileges.
- The sample screen above is for when the VB-C50i/VB-C50iR is being used. If you are using an external camera, the camera control link does not appear.

# **Camera Control by Position Specification**

If you use the sample pages contained on the CD-ROM, you will be able to control the camera with the same absolute position specifications as Presets.

To use the sample pages on the CD-ROM, send the files to the VB-C50i/VB-C50iR as described below.

- 1. In Explorer etc., access vbfiles/mobiles/VB-C50i (or VB-C50iR) on the CD-ROM.
- 2. Copy the "mobile" folder which is displayed and send it to the VB-C50i/VB-C50iR, referring to the section "Saving Web Page Data" ( $\rightarrow$  P. 5-8).



- The sample pages on the CD-ROM for the VB-C50i and VB-C50iR are different.
- To see the sample page sent in the above procedure, please access from the following URL:

http://192.168.100.1:80/local/mobile/index.html

\* The underlined portion is a sample IP address: HTTP port number. Enter the actual IP address and HTTP port number that were set on the VB-C50i/VB-C50iR (→ P.3-6, 3-17).

# **Overwriting Sample Pages**

You can change screen displays and the content of operations by overwriting the HTML file below the "mobile" folder on the CD-ROM.

```
POS1.htm

<CENTER>
<IMG

SRC="/-wvhttp-01-/still.jpg?camera_id=1& pan=-
6666&tilt=7000&zoom=6135&image_size=160x120&option=skip_on_error"

ALT="position1"><BR>
</CENTER>
```

For example, to change the control position for Position [1], overwrite the underlined value in "pos1.html". See the table below for details of the parameters of the still.jpg command.



- If you are going to overwrite the sample pages, please do so after you have copied the "mobile" folder to your PC.
- Please delete the "mobile" folder beforehand if it is already saved in the VB-C50i/ VB-C50iR.

## still.jpg parameters

Command	Description
camera_id	Specifies the camera when you switch between cameras. 1 is this camera, and 2 is an external camera. When there is no specification, you are deemed to have specified the current camera.
p or pan	Specifies the pan of the camera. p is in units of 1° and pan in units of 0.01°.
t or tilt	Specifies the tilt of the camera. t is in units of 1° and tilt in units of 0.01°.
z or zoom	Specifies the zoom magnification of the camera. z is ten times zoom magnification of maximum wide angle and zoom is in units of 0.01°.
b or back_light	Specifies camera backlight compensation. When this parameter is set to on, the picture captured will be bright and when this parameter is set to off, the picture captured will be dark. If this parameter is omitted, camera backlight compensation is not controlled.
v or image_size	Specifies image size. You can specify $160 \times 120$ , $320 \times 240$ , and $640 \times 480$ for NTSC, and $192 \times 144$ , $384 \times 288$ , and $768 \times 576$ for PAL. The format for v and image_size is different. v only specifies horizontal size, e.g. v=640. image_size specifies vertical and horizontal size, e.g. image_size=320 $\times$ 240.
option	Specifies how errors are dealt with. When "skip_on_error" is specified, the process will be continued. When "quit_on_error" is specified, the process will be aborted. The following errors can occur: failure to acquire camera control right, loss of camera control, camera selection errors and camera control errors. To omit, the default value is "quit_on_error".



Specifying with the current position which appears as "d" and the percentage for the current angle which appears as "c" (percentage) is also possible for p (pan), t (tilt) and z (zoom).

For example:

p=d+c100 is pan one screen to the right from the current position.

t=d-c50 is tilt half a screen lower than the current position.

z=c200 sets twice the current zoom magnification.



# Using the Picture Recording Function

This chapter describes a couple of specific examples of the Picture Recording function using the VB-C50i/VB-C50iR. Still images are automatically recorded by input from an external device, motion detection and schedule settings and can be distributed on a web site.

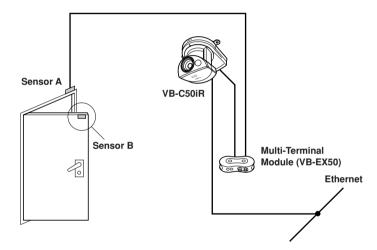
# Using the Still Picture Recording Function Linked to an External Device

By combining various sensors and switches to operate according to External Device Input settings, it is possible to construct a monitoring system that responds to external events. Still pictures are recorded in the VB-C50i/VB-C50iR's memory ( $\rightarrow$  P.3-28).

# Sample Application Combining a Door-opening Sensor

This is a monitoring system in which the VB-C50iR installed in the ceiling records pictures every second for 3 seconds before the doors opens and 7 seconds after the door opens between 5 p.m. and 6 a.m. Connect the devices below to each connector of the Multi-Terminal Module and set up. Please note that the Multi-Terminal Module is an optional product and is sold separately.

## Installation Example



When the door opens and sensor B mounted on it separates from sensor A, an ON event occurs at external device inputs IN<sup>+</sup> and IN<sup>-</sup>. In response to this event, the VB-C50iR records pictures at the entrance and stores them.



Please refer to the Multi-Terminal Module User's Manual for how to connect the Multi-Terminal Module to the VB-C50i/VB-C50iR.

## Sample Still Picture Recording Settings

## Settings specified on the "Camera and Video" page ( $\rightarrow$ P.3-7)

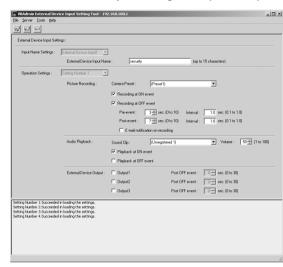
Specify the appropriate settings for the VB-C50iR being used.

## Settings specified on the "Preset" page (→ P.3-12)

Set a camera angle that shoots the open doorway as Preset 1.

## Photographic conditions specified in "External Device Input Setting Tool" (→ P.4-54)





- In the "Normal Schedule Setting" screen (→ P.4-30), select a schedule and then select "Weekly on" in the "Schedule" tab. Select all the days of the week, set the start time to "17:00" and the end time to "06:00".
- In the "Service" tab, select "Input 1" in "External Device Input", then select "Setting Number" and click the "Detail" button.
- Enter the external device input name.
- Set "Camera Preset" to "Preset1".
- Select "Recording at ON event".
- Set "Pre-event" to "3" seconds and "Interval" to "1.0" second. An image will then be recorded every second for 3 seconds before the door is opened.
- \* With pre-event recording, the image is not recorded from the moment external input turns on.
- Set "Post-event" to "7" seconds and "Interval" to "1.0" second. An image will then be recorded
  every second for 7 seconds from the moment the door is opened.
- \* With post-event recording, the image is recorded from the moment external input turns on.

# Using the Still Picture Recording Function with a Predetermined Schedule

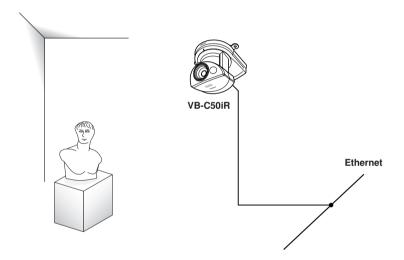
By using the "Schedule" setting, you can construct a monitoring system that records pictures according to a predetermined schedule. Recorded still pictures are stored in the VB-C50i/VB-C50iR's memory ( $\rightarrow$  P.3-28).

# **Sample Application Using Sequential Mode**

This is a monitoring system used in art galleries and similar facilities in which the exhibits are monitored. Still pictures are captured at 10-minute intervals by a VB-C50iR mounted on the ceiling.

## Installation Example

Following the schedule set in advance, the VB-C50iR records and stores pictures.



## Sample Still Picture Recording Settings

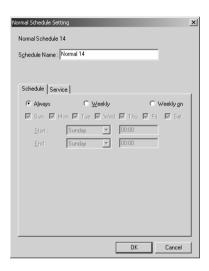
## Settings specified on the "Camera and Video" page ( $\rightarrow$ P.3-7)

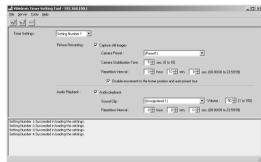
Specify the appropriate settings for the VB-C50iR being used.

## Settings specified on the "Preset" page (→ P.3-12)

Set the camera angle focusing on the object to Preset 1.

## Photographic conditions specified in "Timer Setting Tool" (→ P.4-39)





- In the "Normal Schedule Setting" screen (→ P.4-30), select a schedule and then select "Always" in the "Schedule" tab.
- In the "Service" tab, select "Timer", then select "Setting Number" and click the "Detail" button.
- Select "Capture still image".
- Set "Camera Preset" to "Preset1".
- To take a photograph after the position of the camera has stabilized, set "Camera Stabilization Time" to "5" seconds.
- Set "Repetition Interval" to "10" minutes.



- The number of still pictures that can be recorded depends on size of the pictures. Check the average file size per still picture in advance (→ P.3-7 and 3-28).
- Still pictures beyond VB-C50i/VB-C50iR's capacity can be recorded if VBCollector is used to download still pictures recorded by the VB-C50i/VB-C50iR (→ P.6-9).

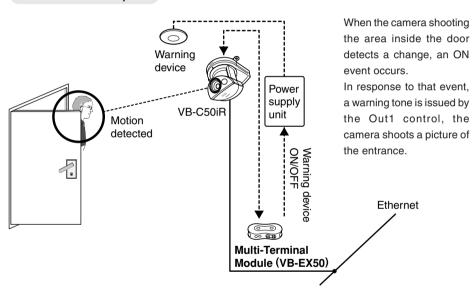
# Using the Motion Detection Function with a Predetermined Schedule

By running the motion detection function according to a schedule, you can construct a monitoring system that records pictures in accordance with a preset schedule and that operates in response to variations in the video image from the area covered by the camera. The recorded pictures are stored in the VB-C50i/VB-C50iR's memory ( $\rightarrow$  P.3-28).

# Sample application in combination with a warning device

In this monitoring system, a warning tone is emitted when someone enters through the door and the VB-C50iR camera mounted on the ceiling captures a still picture. Connect the devices below to each connector of the Multi-Terminal Module and set up.

#### Installation Example





Please refer to the Multi-Terminal Module User's Manual for how to connect the Multi-Terminal Module to the VB-C50i/VB-C50iR.

## Sample Still Picture Recording Settings

## Settings specified on the "Camera and Video" page (→ P.3-7)

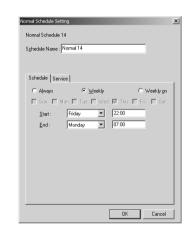
Specify the appropriate settings for the VB-C50iR being used.

## Settings specified on the "Preset" page ( $\rightarrow$ P.3-12)

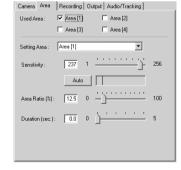
Set the camera angle for the area just inside the door as Preset 1.

## Settings specified in the "Motion Detection Setting Tool" (→ P.4-41)

- In the "Normal Schedule Setting" screen (→ P.4-30), select a schedule and then select "Weekly" in the "Schedule" tab. Set the start on "Friday" at "22:00" and the end on "Monday" at "07:00".
- In the "Service" tab, select "Motion Detection", then select "Setting Number" and click the "Detail" button.



- In the "Camera" tab ( $\rightarrow$  P.4-44), set the place of motion to "Preset 1".
- In the "Area" tab (→ P.4-45), select "Area [1]" in "Used Area".



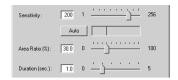
To set the level of motion detection sensitivity that will trigger an ON event, shoot a simulation of the actual event and reproduce the amount of change that is acknowledged as an incursion. In this situation, in order to capture the picture variation that is recognized as the door opening and someone entering the room, first position the motion detection frame on the center of the door.



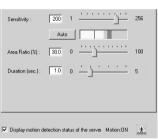
- Next, set the sensitivity, area ratio and duration. To ensure that the event is not triggered by unrelated lighting changes or small movements, set the "Duration" parameter so that picture changes lasting a second or less are ignored and then set the "Area Ratio" parameter so changes that occupy 30% or less of the total picture are also ignored.
- Reproduce the intrusion, or using the recorded image, check whether the change in the image has been captured in the yellow rectangle in the Viewer. If the change is not recognized, increase the sensitivity.
   On the other hand, if yellow or red rectangles are displayed even if there is no change in the image, reduce the sensitivity.
- Once the yellow rectangle in the viewer reliably captures the intruder, check that the peak display in the detection indicator gives a "Motion detected" result. "Motion detected" is displayed in the viewer in a red rectangle. If there is no "Motion detected", adjust the sensitivity, area ratio and duration settings.
   Check "Display motion detection status of the server" and the results of motion detection are displayed as
- In the "Recording" tab (→ P.4-47), select "Recording at ON event".

an icon ( $\rightarrow$  P.4-49).

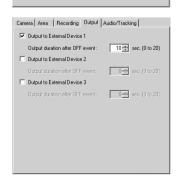
- Set "Pre-event Recording Time (sec.)" to "4", and "Recording interval before event (sec.)" to "1.0". An image will then be recorded every second for 4 seconds before motion is detected.
- Set "Post-event Recording Time (sec.)" to "8" and "Recording interval after event (sec.)" to "1.0". An image will then be recorded every second for 8 seconds from the moment motion is detected.
- Select "Recording between ON event and OFF event" and set "Recording interval between events (sec.)" to "10".
  - \*During "Motion detected", images are recorded at intervals of 10 seconds.
- In the "Output" tab (→ P.4-48), select "Output to External Device 1" and set "Output duration after OFF event (sec.)" to "10" seconds.
  - \*Set the Warning device (external device 1) to simultaneously signal with "Motion detected" and turn off 10 seconds after the OFF event.





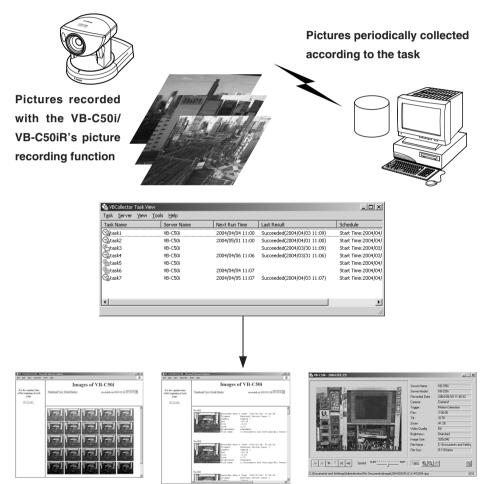






# **Using VBCollector**

VBCollector is used to view pictures recorded by the VB-C50i/VB-C50iR. With VBCollector, you can collect and display still pictures recorded by the VB-C50i/VB-C50iR based on inputs from an external device, motion detection or picture recording. VBCollector accesses the VB-C50i/VB-C50iR at specific times expressed in units such as dates, weeks, or months, and then downloads the recorded pictures. Since the recorded pictures are saved one after another in the PC on which VBCollector is installed, pictures can still be securely saved when the allowable limit on the number of pictures that the VB-C50i/VB-C50iR can record and save has been exceeded. Downloaded images can also be easily viewed in the Web browser. Information related to task execution can also be recorded in a log.



Downloaded image displays

# Installing VBCollector

If you selected Custom Installation described in "Install the Software" in Chapter 2 "Setting up" ( $\rightarrow$  P.2-11) and selected [VBCollector], VBCollector will already have been installed. If this is the case, select "Programs" from the Start menu, then "WebView Livescope" and a short cut will be created.

If VBCollector is not yet installed, see page 2-11 to install.



VBCollector cannot be installed on a PC where MV Ver. 2.0 or a later version is already installed.

# **Starting Up VBCollector**

VBCollector is started up by choosing it from Start menu.

### To Start Up VBCollector...

Choose [Program]-[WebView Livescope]-[VBCollector Task View] from the Start menu to start up VBCollector.





# Registering a Server

To use VBCollector for downloading pictures from the VB-C50i/VB-C50iR (hereafter referred to as "server"), the server must first be registered.

# ■ Adding a Server

Add a new server to which VBCollector will download pictures.

#### To Add a New Server...

 To add a server, choose "Add" from the Server menu, or click the "Add" button on the Server List dialog box that appeared when Edit from the Server menu was selected.





### Enter each item in the various fields and click the "OK" button.

#### 1) Server Name

Assign a name for recognizing the Server (optional).

#### (2) Image Directory

Enter the name of the directory where downloaded images are to be saved, or click the "Browse" button to select a directory folder. Refer to the next page for how to download images to a shared folder on the network.

#### "Delete images on the server"

When this check box is selected, pictures that VBCollector downloaded from the server will also be deleted from the server.

#### (3) Server Information

#### "Host Name" (→ P.3-6)

Specify an IP address or a host name.

#### "HTTP Port" (→ P.3-17)

Enter the HTTP port number set in the server.

#### "Administrator Account"

Enter an administrator account registered in the server (root).

#### "Administrator Password" (→ P.3-5)

Enter the administrator password registered in the server (The default setting is VB-C50i).

#### "Settings Page URL"

Enter the "Path" to the setting title page set in the server (admin).

#### (4) Proxy

#### "Use Proxy Server"

Select this if the connection is to be made via a proxy server.

#### "Host Name"

Specify the proxy server host name or IP address.

#### "Port"

Enter the proxy server port number. (The default value is 8080.)

#### (5) **PPP**

#### "Use PPP connection"

Select if connection will be established by dialing up.

#### "PPP Connection Name"

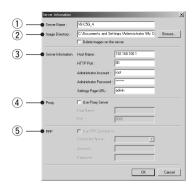
Select a phone number from the phone book entry. A dialup network will need to have been installed and the phone number will need to have been registered in the phone book.

#### "Account"

Enter the PPP account to be used for the dialup connection.

#### "Password"

Enter the PPP password to be used for the dialup connection.





- If using Windows 2000 or Windows XP, operate VBCollector with an authority greater than PowerUser.
- NTFS is recommended for such file systems containing the installation folder and the folder where images are saved.
- When using NTFS in the file system, set to permit reading and writing of the installation folder and the folder where images are saved. Functionality is limited if you do not have authority.



### Downloading images to a shared folder on the network

- You cannot specify a path name that uses a network drive in the "Image Directory" setting. Use UNC notation to specify the path name.
  - \\PC name\shared directory name[\path]
  - Eg) \\Server\Share\path
- Set the folder access privileges for the "Image Directory" folder so that read/write operations can be performed from machines with VBCollector installed.
- In case of using VBCollector in Windows 2000/XP, make the logon account setting for VBCollector task scheduler service in the following procedure (→ P.6-30)
  - 1. Choose "Options" from the "Tools" menu bar.
  - 2. Select [Specify an account for downloading] under [Details] in the option dialog.
  - 3. Enter your user name and password.
  - 4. Click the "OK" button.
    - \*Specify an account from which you can log on to the download destination machine.
    - \* Set the folder access privileges so that read and write operations can be performed from the download execution account to the folder in which VBCollector is installed (the default setting is C:\ProgramFiles\Canon\WebView\VB\VBCollector\2.1).

### **■** Editing Server Information

Content of the registered server information can be edited.

#### To Edit Server Information

1. Choose "Edit" from the "Server" menu bar, and when the Server List dialog box appears, select the server name to be edited and click the "Edit" button.

To delete a registered server, click the "Delete" button.





2. As with the procedure for adding servers, change all desired items and click the "OK" button.





Downloaded images are not deleted when a server is deleted. To delete downloaded images, first follow the procedure in "Deleting Images" (→ P.6-25) and then delete the server.

# **Registering Tasks**

### Adding a Task

Add a new task for downloading images.

#### To Add a New Task...

 To add a task, choose "New Task" from the "Task" menu bar.



# Enter each item in the various items and click the "OK" button.

#### 1) Task Name

Assign a name to the task.

#### "Enable this setting"

Select "Enable this setting" if the task is to be performed according to the schedule. If not selected, the added task will not be executed.

#### 2 Server Name

Select the server from which the VBCollector downloads recorded pictures. If there are no servers registered in the list, you can register servers by selecting a blank column and clicking the "Server Settings" button.



#### "Server Settings"

Any download server name can be registered ( $\rightarrow$  P.6-10). After registration, it can be selected from the "Server Name" column.

#### ③ Schedule

"Start Date"

Set the date which is to be the starting point of the schedule. The task will be executed after the specified start date according to the criteria specified below.

#### "Start Time"

Set the time when the task is to start up (in 24-hour format).

#### "Once"

Select if the task is to be executed only once. The task will be executed only once at the start time on the start date.

#### "Daily"

Select if the task is to be executed once every certain number of days. This number of days can be specified between 1 and 31.

#### "Weekly"

Select if the task is to be executed every certain number of weeks on a certain day of the week. Set the number of weeks between 1 and 53, and specify the day of the week.

#### "Monthly"

Select if the task is to be executed every month on a certain day of the month. Set this day between 1 and 31. Or a day of the week for a certain week of the month can also be specified.

#### (4) Details

### "Repeat task"

Select if task is to be executed in repetition in time units. Downloads occur in repetition only for the specified number of times at specified intervals starting from the start time specified in the schedule. If not selected, download occurs once at the start time specified in the schedule. Once the End Time is reached, the task is not performed. Images can be downloaded at intervals of some minutes or by specifying a number. Enter a value between 5 and 1439 as the number of minutes. Times up to the Start Time plus 23:59 can be specified as the End Time.

#### "Retry when an error occurs"

Select this item if a task is to be executed again in the event a download does not end normally after a task is executed. The task will be executed again a specified number of times at specified time intervals. During this time, if the download is completed normally, further tasks will not be repeated. Specify the number of times and the time interval at which a task is to be re-executed. For the number of times, enter a value between 1 and 10; for the interval, enter a value between 1 and 10.

#### "Disconnect after finishing download (for access via dial-up connections)

If the connection with the server is a dialup connection and when this item is selected, it will automatically be disconnected when the task ends.



- Up to 16 tasks can be executed by VBCollector simultaneously. Please be sure not to load a schedule with 17 or more tasks to be executed. VBCollector is also not able to execute multiple tasks simultaneously to the same server. Please take care to ensure that multiple tasks are not executed to the same server by taking such measures as leaving a sufficient time space between the "Start Time" of each task
- If you execute a maximum of 16 tasks simultaneously, please confirm performance of the PC on which VBCollector is installed (→ P.1-5). When Log S015 "The task was running longer than the execution interval." or D040 "File saving time took 60 sec. or more." is returned, review the settings for the schedules such as reducing the number of tasks to be performed at the same time.

# **■** Editing Tasks

The details of a registered task can be edited.

#### To Edit a Task...

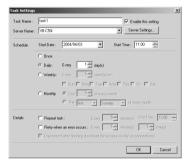
 In the Task View, select the task to be edited by clicking on its name, then choose "Edit Task" from the "Task" menu bar.

Or, double-click on the task to be edited.

To delete a registered task, choose "Delete Task" from the Task menu.

As with procedure to add a new task, change all desired items and click the "OK" button.





# **Executing and Canceling Tasks**

# ■ Executing a Task

Registered tasks are executed automatically according to pre-determined schedule when "Enable this setting" is selected at Task Settings. If you want a task to be executed immediately, select the desired task on the Task View and choose "Execute now" from the "Task" menu bar.



# ■ Canceling a Task

To disable a registered task, clear "Enable this setting" at Task Settings. To abort the execution of a task, in the Task View, click on the task to be aborted, and choose Abort in the "Task" menu bar.



### ■ Display Task Status

During the execution of any task, the download status can be checked.

#### To View Task Status...

 During the execution of a task, choose "Status" from the "Task" menu bar. Alternatively, select and right-click the task for which you want to display the status and select "Status" in the pop-up menu.



2. Check the download status and click the "Close" button to close the dialog box.

If you want to cancel downloading, click the "Abort" button.

- 1) Status
  - Shows the progress of download.
- 2 Target Server

Shows the connection status with the server.

#### "Host Name"

Shows the host name of image download server set in the server information (  $\rightarrow$  P.6-11).

#### "Image Directory"

Shows the name of the folder, set in the server information ( $\rightarrow$  P.6-11), where any downloaded image is to be saved.

#### "Delete images on the server"

When it is selected, any recorded image after download will be deleted from the server. In order to change the checking status, change the setting in the server information ( $\rightarrow$  P.6-11).

3 Close this dialog automatically when downloading is completed

After download is finished, this dialog will automatically be closed. During download, it is always selected.



# **Details Displayed on the Task View**

The execution status can be checked on the Task View.

#### Task Name

The names that were specified at Task Settings are displayed here. The status of each task is displayed as an icon at the left of the name.

Running This task is currently being

executed.

Maiting This task is currently standing by to be executed at the next scheduled

execution time.

Disabled "Enable this setting" for this task is not selected at Task Settings and

this task is currently not being executed.

Not scheduled This task is not currently scheduled for execution.

Restlings damaged Inconsistencies have occurred in this task's settings and the task will

not be executed.

#### Server Name

The server names that were specified at Task Settings are displayed here.

#### Next Run Time

The date and time when the task is to be executed next is displayed here.

#### ● Last Result

The last results achieved by the task and the task end time are displayed here.

#### Schedule

The start date, start time and execution interval for each task are displayed here.



An automatic download is displayed as with the task name "Task by Notification".

# ■ Refresh Task View Display Content

To refresh the Task View content to reflect the most recent information, choose "Refresh" from the "View" menu bar.



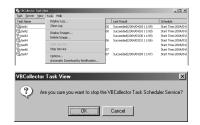
# Starting/Stopping the Service

The task scheduler service can be started and stopped.

#### To Make Settings...

Choose "Start Service" or "Stop Service" from the "Tools" menu bar. If the service has started, Stop Service is enabled in the menu; if the service is stopped, Start Service is enabled.

When the Confirmation dialog box appears, click OK.



# **Automatic Downloading by Notification**

You will not be able to record images if there is insufficient space on the server. The VB-C50i/VB-C50iR can receive a low server capacity notification sent from the server when available space on the server falls below the value set, and automatically downloads images to a specified PC, thereby increasing the available space on the server.

### 1. Choose "Automatic Download by Notification" in the "Tools" menu bar.

### 2. Perform the settings relating to notification.

#### 1 Server List

Displays a list of the servers from which the images can be downloaded. The settings relating to notification of each server registered with this tool  $(\rightarrow P.6-10)$  are shown in this list.

#### "Server Name"

Displays the names of the servers registered with this tool

#### "Notification"

Displays the setting for whether the server will send a low server warning message when available space on the server reaches the value set ( $\rightarrow$  P.6-20).

#### "Free space (MB)"

Displays the setting value for available space on the server. When available space has fallen below this setting, the server sends a low server capacity warning message.

#### "Host"

Displays the name of the host which will send the low server capacity warning message.

#### "Port"

Displays the TCP port of the host.

#### 2 Server status display area

Displays the status of the selected server. Depending on the server conditions, you may or may not be able to specify settings in the "Server Setting" button and the "Notification Settings" button.

#### "The Notification Function is available for this server"

Both the "Server Setting" and "Notification Settings" buttons are available.

# "This server does not support the Notification Function" and "Failed to connect to the server"

The "Server Setting" button is available but the "Notification Settings" button is not.

#### "This server information is invalid"

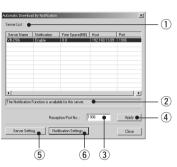
The "Server Setting" button is available but the "Notification Settings" button is not.

#### "None"

Neither the "Server Setting" button nor the "Notification Settings" button is available.

#### 3 Reception Port No.

Specifies the TCP port number which will receive the low server capacity warning message from the server. The default is 1906.



### 4 "Apply" button

Saves a change to the reception port number in the registry. If you make a change, a dialog box is displayed. Click "Yes" and the transmission port of each server is also changed.

5 "Server Setting" button

Displays a dialog box with information about the selected server for editing ( $\rightarrow$  P.6-11).

6 "Notification Settings" button

For performing notification settings for the selected server.

- 3. Click the "Notification Settings" button to set a value for available space for the server to give a low server capacity notification.
  - ① "Send notification when server space gets low" Select to send a low server capacity notification when available space on the server is insufficient.
  - "Available disk space of the server"

    Set a value for available space at which the server

set a value for available space at which the servel will send a low server capacity notification.

When available space on the server falls below the value set, a low server capacity notification is sent.

\* For Windows XP SP2 users, see "Using the VB-C50i/VB-C50iR with Windows XP SP2" (→P.1-5).





- Where "Host" is displayed as "(Other)" or where the transmission port and the reception port are different, you cannot receive a low server capacity notification.
- "-----" is displayed where server information such as the host name or the HTTP port number has not been entered correctly, or in the case of servers other than the VB-C50i(R) which support the low server capacity notification function.
- If "Host" is not "(Other)" or "Port" is not "Reception Port No." in the selected server, a message asking you to confirm whether it is okay to change the setting values will be displayed. Click the "Yes" button and a dialog box appears.
- If the server that sends the notification is in the middle of a task, there is no automatic downloading during normal tasks.
- If there is a setting value for the maximum number of downloaded images, only the specified number will be downloaded.
- Images on the server are deleted regardless of the setting for deletion of the images on the server.
- When large images are recorded each second, the server will run out of capacity before it can send a notification, and picture recording may stop working.
- When the server capacity falls below the set value, a notification will be sent from the server every 30 seconds.

# **Viewing Recorded Images**

The images that were downloaded according to the task schedule are saved in the folder specified at "Server Information". You can view images easily by outputting these recorded images to a Web browser.

# ■ Displaying Images

Downloaded images are selected by server name and date, and displayed in a Web browser.

To View Pictures

1. Choose "Display Images" from the "Tools" menu bar.



2. Select the server name to be viewed, select the date of the list to be displayed, and click the "Display Image" button.



- 3. The Filter dialog box appears. Select the display format and time and click the "OK" button.
  - 1 Display Format Set the format in which images are displayed on your web browser.
  - 2 Time Specify the shooting time of the images you want to list.



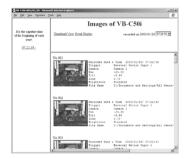
 HTML for displaying the images is generated, the Web browser starts up, and thumbnail images of the selected date are displayed in 100-image units on the page.

Click on an image to be viewed; it is displayed in the original saved dimensions.



When you click Detail Display in the above screen, detailed information on the images in the thumbnail screen is displayed.

Click on an image to be viewed; it is displayed in the original saved dimensions.





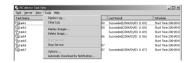
If the total amount of still pictures per day exceeds 10,000, it may take several minutes to display all the pictures.

### ■ Animate Images

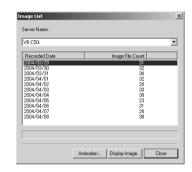
Downloaded images can be selected using the server name and date to be animated (consecutive display). The images can also be shown in detail or zoomed in/out.

#### To View Animation...

 Choose "Display Images" from the "Tools" menu bar.



Select the name of the server where you want to browse and click to select the date of any image to be animated. Then, click the "Animation" button.



- As dialog size, large or normal size is available and is automatically selected depending on the original image size.
  - ① Image display area

Shows any image of the selected recording date. If the image size is greater than the display area, the image display position can be moved with the scroll bar.

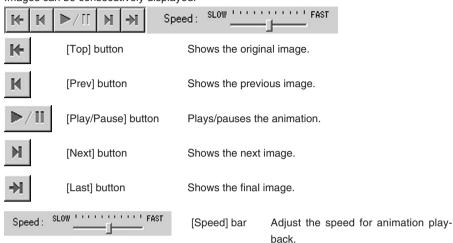
- ② Image data display area Shows details of the image.
- ③ Status bar

Shows the image file name and "Current image number/total number of images".



#### Animation

Images can be consecutively displayed.

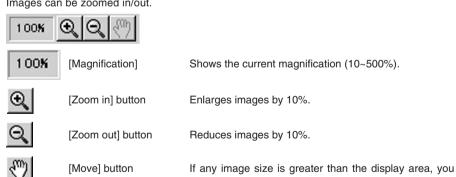




During animation, the "Top", "Prev", "Next" or "Last" button cannot be used. If you want to use any, click the "Play/Pause" button to stop the animation.

#### Zoom in/out

Images can be zoomed in/out.



can move the image display position. Clicking the "Move" button to position the mouse cursor on the image changes the cursor to ... Move ... while pressing the left mouse button on the image. The image display position will be moved.

### Change dialog size

As dialog size, large or normal size is available and is automatically selected depending on the initial image size. However, you can also change it manually.



[Large size] button

[Normal size] button

When it is clicked, the dialog will be displayed in large size. It appears when normal dialog size is displayed.

When it is clicked, the dialog will be displayed in normal size. It appears when large dialog size is displayed.

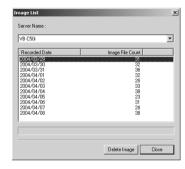
# ■ Deleting Images

Downloaded images can be deleted.

#### To Delete Images...

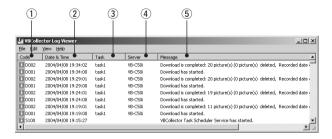
- 1. Stop the task schedule of the tool.
- Choose "Delete Image" from the "Tools" menu bar.

In the Image List dialog box, select the name of the server that VBCollector downloaded the image to be deleted, select the date to be deleted by clicking on it, then click the "Delete Image" button.



# **Viewing Logs**

VBCollector outputs logs concerning the execution of tasks. To view a log, choose "Display Log" from the "Tools" menu bar.



The following information about logs is displayed:

#### 1) Code

Identification codes are displayed here. 4 types of icons representing the level are also displayed with these codes.



Information level



Warning level



Error level



Unknown

#### 2 Date & Time

The date and time when the log was generated is displayed here.

#### ③ Task

The name of the task that output the log is displayed here.

#### 4 Server

The name of the server to which the task performs downloads is displayed here.

#### ⑤ Message

The log's message is displayed here.

### ■ Displaying Logs According to Selection Criteria

Logs can be filtered according to error type, code, or date and time etc. so that only the required information is displayed.

#### To Make Settings...

#### 1. Choose "Filter" from the "View" menu bar.



#### 2. The Filter dialog box appears.

To display only the logs that match the specified criteria, enter the criteria below and click the "OK" button. If no changes are required, click the "Cancel" button.

#### 1 Specify Task

Select if filtering by task name, then enter the task name.

#### 2 Specify Server

Select if filtering by server name, then enter the server name.

#### (3) Error Type

Specify the error type when filtering by error type.

#### "Not Specified"

Selecting this item disables priority and code settings.

#### "Specify Priority"

From Error, Warning, or Information, select the error level to be displayed.

#### "Specify Code"

Select if only logs with the corresponding identification code are to be displayed, then enter the identification code.

#### (4) Date & Time

Filters logs by output date and time.

#### "Specify Start Date & Time"

When this item is selected and a date and time is entered, logs generated after the specified start date and time are displayed.

#### "Specify End Date & Time"

When this item is selected and a date and time is entered, logs generated before the specified end date and time are displayed.

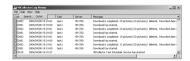


# ■ Search Logs

Logs can be searched using character strings. This function is convenient in case of searching any target log from among numbers of logs.

#### To Search Logs...

1. Choose "Search" from the "Edit" menu bar.



### Enter the character string you want to search in "Search for" and click the "Search" button.

Searching begins from the top of the logs.

If you select any log, searching will be started from the selected log. Clicking the "Cancel" button closes the search dialog.

#### "Match case"

When it is selected, capital and small letters will be distinguished and only those strings, which exactly coincide with the entered character string, will be searched.

# A line containing the relevant character string will be highlighted.

Pressing "F3" on the keyboard starts forward search. Pressing "Shift+F3" makes backward search. When searching is completed after taking a round, the message "Search complete." will be displayed to terminate searching. If the relevant string is not found, the message "The search item was not found." will be displayed to quit searching.



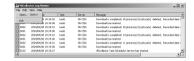


# ■ Selecting Log Files

The initial log file of VBCollector is saved as "vbrpd.log" file in the "SYSTEM" folder within the VBCollector-installed directory. When the file exceeds the size of 10 MB, it will be renamed as "vbrpd01.log", creating a new "vbrpd.log" file within the same folder to save the log. Log files can be created up to 11 (with names from "vbrpd.log" to "vbrpd10.log"): The newest log file is always named as "vbrpd.log" and the older ones are renamed increasing their numbers whenever a new one is created. VBCollector Log Viewer can selectively display any of the created log files.

#### To Select Log Files...

1. Choose "Open" from the "File" menu bar.



2. Choose the log file you want to display and click "Open".

The selected log will be displayed.

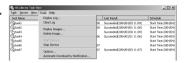


# **Setting Download Capacity**

In order to perform downloads based on a task schedule, you can set the upper limit on the number of pictures or specify the response to be made in the event the specified percentage on available space on the drive where pictures are to be saved is exceeded.

#### To Make Settings...

1. Choose "Options" from the "Tools" menu bar.



- Enter information for each item in the Options dialog box displayed and click the "OK" button.
  - 1) Disk Space on Image Directory
    - "Min. amount of free space required on image directory"

Set the ratio of minimum free space to  $1\sim50\%$  for a drive containing the folder where you want to save any image ( $\rightarrow$  P.6-11).



#### "What to do when min, is reached"

When the free space of destination drive reaches the ratio set in [Min. amount of free space required on image directory], decide how to deal with it.

- "Abort task"

Cancels download.

#### - "Delete old image [s]"

Sequentially deletes downloaded images being recorded on the server from the image of the oldest shooting date until the specified free space ratio can be recovered.

(2) Details

#### "Set max. number of pictures per download"

When it is checked, the maximum number of images to be downloaded from the server at a time can be set to 1~30,000.

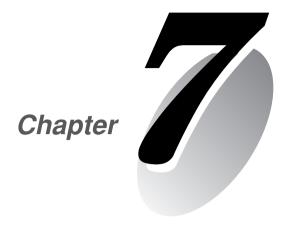
#### "Specify an account for downloading"

When it is checked, the execution account of download can be specified. Set it when you want to download any image on the shared folder on the network from the server ( $\rightarrow$  P.6-12). (Windows 2000/XP only)

Once selected, enter your user name and password.



- When the available capacity of the driver where the images are saved approaches the value specified, Log D031"Additional free space is going to be required on the disk to save images." is output. Review disk capacity such as by backing up old files and then deleting them.
- If you are making a setting to delete old images, please be careful as the images you downloaded the previous time may also be deleted.



**Appendix** 

# **Troubleshooting**

Before you contact your Canon dealer or service outlet, check the items listed below. If a log message is displayed, refer to the log message list for the log details and the appropriate response.

### The VB-C50i/VB-C50iR does not start up.

- Check that the AC cable is connected correctly.
- Switch the VB-C50i/VB-C50iR off and then on again ( $\rightarrow$  P.2-6).

### VBSetup.exe does not work.

- Check that the LAN cable used for setup is connected correctly.
- •Try turning off the power to the VB-C50i/VB-C50iR, then turning it on again (→ P.2-6). There will no longer be any effect on VBSetup.exe 20 minutes or more after power is turned on.
- Check to see if the VB-C50i/VB-C50iR and the PC running VBSetup.exe are connected to the same network segment.
- VB setup.exe may not run on Windows XP SP2. In that case, see "Using the VB-C50i/VB-C50iR with Windows XP SP2" ( $\rightarrow$  P.1-5)

#### The VB-C50i/VB-C50iR sample page does not appear.

- Check that the LAN cable is connected correctly.
- Check that the VB-C50i/VB-C50iR network settings are correct. In particular, check that the IP address, subnet mask and default gateway address settings are valid for the network you are using.
- If you have changed the IP address, the new IP address does not take effect until the VB-C50i/VB-C50iR is rebooted.
- ullet If access control for the VB-C50i/VB-C50iR is being used, check the settings ( $\to$  P.3-20).
- Check that the IP address or URL settings in the viewer software are correct.
- When using the router's NAT function, be sure the VB-C50i/VB-C50iR's IP address in the Web page is correct (→ P.5-26).

#### The video does not appear.

- Check that the viewer software is correctly installed (→ P.7-20). Please refer also to the Viewer Software User's Manual (Viewer-E.pdf) contained on the supplied CD-ROM.
- •If the video quality is poor, check the quality settings on the VB-C50i/VB-C50iR (→ P.3-7).
  Also, check settings such as the number of background colors as on the viewer PC.
- You can limit the number of viewers that can access the VB-C50i/VB-C50iR at the same time. When this limit is exceeded, a message is displayed instead of a video (→ P.3-16).
- If you cannot see the video using the Viewer for Java, check your system environment such as the browser version (→ P.1-4). 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

#### I can't control the camera.

- Check that the LAN cable for camera control is connected correctly.
- ullet Check to see if the camera angle is restricted to a preset ( $\rightarrow$  P.3-13).

#### The viewer is disconnected

- Try connecting to the viewer again.
- Check that the network or PC you are using is working properly.
- Reboot the PC and try connecting again.

### I forgot the password.

ullet All factory defaults settings can be restored by using the Reset switch ( $\to$  P.7-24). The default administration password is "VB-C50i". The VB-C50i/VB-C50iR's settings will need to be made again, since all network settings such as the IP addresses and subnet masks are also restored to the factory defaults.

### I cannot record pictures.

- The number of pictures that can be recorded depends on the setting. From time to time, please delete recorded pictures that are not needed ( $\rightarrow$  P.3-28).
- Check that the camera is on and the cable has been connected properly.



If you have a problem, consult the ReadMe also. The ReadMe file may contain important information not included in this manual. Be sure to read the file.

# Log Messages

# The VB-C50i/VB-C50iR Log Messages

The Syslog log messages are classified into the following 5 categories. Classification details are dealt with in the UNIX syslog.

Classification	Level	Fault Severity
crit	Error	Critical fault at the software level (stops task operation)
err	Error	Fault involving a malfunction (operation interrupted)
warning	Warning	Fault not involving malfunction
notice	Warning	Fault outside the system
info	Information	Information on correct operation

# **■** Camera Server-related Log Messages

### ●A001 Camera server startup failure (crit)

Message	no %1 installed
%1	sources I protocols
Explanation	Capture and initialization of protocols has failed, and the camera server has failed to start.
Response	If rebooting does not solve this problem, there is a malfunction. Contact an authorized Canon service representative.

# ●A002 Protocol initialization failure (err)

Message	%1 protocol not installed
%1	Protocol type (LS/C   LS/D   LS/H)
Explanation	Initialization of WebView has failed. The setting information may be corrupted.
Response	Correct the settings or return to factory-shipped settings.

# ●A007 View restriction setting error (warning)

Message	inconsistent view restriction for camera[1]
Explanation	The view restriction settings are corrupted. The camera control functions on the affected camera cannot be used.
Response	Restore the factory default settings or reset the view restrictions.

# ●A008 Compatibility error in the view restrictions settings (warning)

Message	unacceptable view restriction for camera[1]
Explanation	Even in the telephoto field of view, the view restriction settings cannot be satisfied in the horizontal or vertical direction. When this occurs, the zoom setting is fixed at the telephoto field of view, and camera head control is prohibited in directions that do not satisfy the permitted field of view restrictions.
Response	Set appropriate values for the view restrictions.

# ●A010 Camera control driver start and stop (info)

Message	%1 driver for camera[1] %2
%1	Camera type (Canon VB-C50i   Canon VB-C50iR)
%2	started   stopped
Explanation	The camera control device was detected and the driver started up, or a camera control device error was detected and the driver stopped.

### ●A011 Camera control device error (warning)

Message	%1[1] malfunction (%2)
%1	Camera type (Canon VB-C50i   Canon VB-C50iR)
%2	Error (read   write   timeout  )
Explanation	Camera control device I/O error.
Response	There is a malfunction if it occurs repeatedly. Contact an authorized Canon service representative.

# ●A012 WebView Livescope client start and stop (info)

Message	%1@%2 %3
%1	Client type (LS/D   LS/H)
%2	Client host IP address
%3	connected   closed
Explanation	Connection and disconnection of TCP version WebView client (LS/D) and HTTP version WebView client (LS/H) excluding still images.

# ●A014 Access prohibited due to host restriction (notice)

Message	LS@%1 access denied
%1	Client host IP address
Explanation	Access from the client was denied due to host restrictions.

# ●A015 WebView Administrator Viewer start (info)

Message	%1@%2 privilege granted
%1	Type of clients (LS/C   LS/D)
%2	Client host IP address
Explanation	The WebView Administrator Viewer has started operation.

# ●A016 Amount of transmitted video data (info)

Message	%1@%2 %3 frames / %4 bytes in %5 seconds
%1	Client type (LS/D   LS/H)
%2	Client host IP address
%3	Number of frames
%4	Number of bytes
%5	Video transmission time
Explanation	This shows the results of video transmission for a video transmission client.

# ●A022 Applet archive load failure (warning)

Message	archive/%1 not found
%1	Applet archive name (glimpse.cab   glimpse.zip   lvapplet.cab   lvapplet.zip   imagemap.gif   digits.gif)
Explanation	Applet archive file does not exist or is corrupted.
Response	Copy the missing (or damaged) file in the '/archive' applet from the CD-ROM and reboot.

# ●A023 Detection in change of point of contact (err)

Message	a %1 detected at In%2
%1	point of contact device input change (front-edge   rear-edge   pulse   notch)
%2	Point of contact input terminal number (1 to 2)
Explanation	A change was detected at point of contact device terminal In1 or In2. front-edge denotes OFF $\rightarrow$ ON, rear-edge denotes ON $\rightarrow$ OFF, pulse denotes OFF $\rightarrow$ ON $\rightarrow$ OFF, and notch denotes ON $\rightarrow$ OFF $\rightarrow$ ON. pulse and notch are brief (10-20 milliseconds) ON and OFF periods detected during OFF and ON states respectively.

# **Detection of motion (err)**

Message	motion %1
%1	Motion (detected   appeared   disappeared   stopped)
Explanation	Detection of motion started or stopped.

# ●A050 Access permission when restricting user access (info)

Message	user %1 access granted
%1	User name
Explanation	During user access restriction, access has been granted to a specified user. This message is output for both TCP version clients and HTTP version clients.

# ●A101 User specification abnormality when restricting user access (notice)

Message	user %1 not found
%1	User name
Explanation	During user access restriction, an unknown user has been specified. This message is not output for HTTP version clients (the H043 message is output).

# ●A102 Password mismatch when restricting user access (notice)

Message	user %1 password mismatch
%1	User name
Explanation	During user access restriction, the wrong password has been specified. This message is not output for HTTP version clients (the H044 message is output).

# ■ Audio Server-related Log Messages

# ●B001 Audio server startup and shut down (info)

Message	%1 wvaudio
%1	starting I shutdown
Explanation	The audio server has started/shut down.

# ●B011 Audio client connected (info)

Message	[%1] %2 connected n=%3
%1	Client type (recv)
%2	Client host IP address
%3	Total number of clients
Explanation	The audio client has connected.

# ●B012 Audio client disconnected (info)

Message	[%1] %2 closed [%3]
%1	Client type (recv)
%2	Client host IP address
%3	Disconnection type (active   passive   timeout   senderr)
Explanation	Disconnection with the audio client.

# ●B101 Received unusual request (notice)

Message	%1 unusual request[%2]
%1	Client host IP address
%2	Abnormality type (400   404  )
Explanation	Request denied by command error (400) or parameter error (404).

# ●B102 Client connection denied (notice)

Message	%1 request denied[%2]
%1	Client host IP address
%2	Denial type (41   42  )
Explanation	Client connection denied by authentication error (41), timeout (42), lack of resources (43), audio file error (44), non-corresponding codec specification (45) non-corresponding stream specification (46), user level restriction (47), host restriction (48), client number restriction (49), operating mode (4a) and file number (50).
Response	41: Check user name and password at connection or user list. 42: Check the service time. 43: Reconnect or restart. 44: Check audio file registration 45 to 47: Use corresponding client software. 48: Check the host access restriction setting. 49: Check the maximum number of clients setting. 4a: Check that the Use Audio Server setting is enabled. 50: Check the specified file number.

# ●B103 Client access forced disconnection (notice)

Message	%1 access denied[%2]
%1	Client host IP address
%2	Denial type (41   42  )
Explanation	There was a forced disconnection because access was forbidden since settings have been changed, although the access had been permitted at first (the same denial type as B102).

# ●B111 Audio file error (notice)

Message	[%1] file not found [%2]
%1	Command (play)
%2	File number
Explanation	There is no audio file registered.
Response	Check audio file registration.

# ●B201 File operation error (warning)

Message	[%1] io error
%1	Command (play)
Explanation	Failed to operate the file.
Response	Reboot if it occurs repeatedly.

# ●B202 Suspension due to resource shortage (warning)

Message	[%1] resource shortage
%1	Command (play   stop)
Explanation	Stopped the operation because of temporary scarcity of internal resources.
Response	Reboot if it occurs repeatedly.

# ●B302 Reception audio device error (err)

Message cannot use audio device for rx[%1:%2]	
%1 Error processing (open1   open2   ioctl   write)	Error processing (open1   open2   ioctl   write)
%2	Error number
Explanation	An error in the audio device has been detected. Only the audio server will restart.
Response	If not restored automatically, contact an authorized Canon service representative.

# ●B401 Audio device initialization failed (crit)

Message	audio device initialization error[%1]
%1	Error number
Explanation	Initialization of the audio device has failed. The audio server will shut down.
Response	If rebooting does not solve this problem, there is a malfunction. Contact an authorized Canon service representative.

# ●B402 Audio server initialization failure (crit)

Message	wvaudio initialization error[%1]
%1	Error number
Explanation	Initialization of the audio server has failed. The audio server will shut down.
Response	If rebooting does not solve this problem, there is a malfunction. Contact an authorized Canon service representative.

# ●B403 Settings change failure (crit)

Message	cannot set config[%1]
%1	Error number
Explanation	Renewal of the setting values has failed. The audio server will shut down.
Response	If rebooting does not solve this problem, there is a malfunction. Contact an authorized Canon service representative.

# ■ System-related Log Messages

# ●S004 System start and stop (info)

Message	%1 webview
%1	starting and stopping
Explanation	Starting and stopping of the video server (webview).

# ●S005 System settings changed (info)

Message	System settings updated
Explanation	The VB software settings were modified without a reboot.

# ●S028 POP authentication failure (warning)

Message	POP Authentication failed
%1	POP Authentication failed during mail transmission.

# ●H043 User not found (notice)

Message	HTTPD: %1: user %2 not found: %3
%1	Client host IP address
%2	User name
%3	URL
Explanation	You have specified an unknown user in user authentication.

### ●H044 Password mismatch (notice)

Message	HTTPD: %1: user %2: password mismatch: %3
%1 %2 %3	Client host IP address User name URL
Explanation	You have specified a mistaken password in user authentication.

# **The VBCollector Log Messages**

The VBCollector log messages are classified into the following 3 categories.

Level	Fault Severity
Error	Fault which affects task execution
Warning	Fault which does not affect task execution
Information	Information on correct operation

# ■ Log messages output by Task Scheduler Service

# ●S100 (info)

Message	VBCollector Task Scheduler Service has started.
---------	---

### ●S101 (info)

Message	VBCollector Task Scheduler Service has stopped.
---------	---

### ●S102 (err)

Message	Stops the VBCollector Task Scheduler Service because the year of 2038
	has arrived.

# ●S002 (err)

Message	Execution failure: Another task has already accessed the same server.
---------	---

# ●S003 (err)

Message	Execution failure: The number of tasks concurrently executable is beyond
	the limit.

# ●S004 (err)

Message	Execution failure: The task is already running.
---------	---

### ●S005 (err)

Message	Execution failure: Failed to execute the downloader.
---------	--

### ●S006 (err)

Message	Execution failure: Invalid task
---------	---------------------------------

# ●S007 (err)

Message	Execution failure: Invalid server information
---------	---

# ●S008 (err)

Message	Download is completed, but failed to get task information.
---------	--

# ●S010 (warning)

Message	Failed to start the task set at '%1'.
%1	Task name

# ●S011 (err)

Message	Execution failure: Access to the image directory was denied.
Explanation	There is no image directories or failed to logon to the remote host specified as destination of the images.

# ●S012 (err)

Message	Execution failure: Could not create an image directory or sub-directory.
Explanation	Access to the directory specified as destination of the images is not granted or failed to create directory because of insufficient disk space.

# ●S013 (err)

Message	Conversion error: '%1' has failed to convert the task information.
%1	Task name

# ●S014 (info)

Message	Notification of low server space has been received.
Explanation	Received a notification of low server space from the server.

# ●S015 (warning)

Message	The task was running longer than the execution interval.
Explanation	The specified task did not end before the start time of the next task.

# ●S016 (info)

Message	Logs generated at the previous task will be merged.
Explanation	If logs generated while task operation are not output to the main log, the remained ones will be sent to the main log when the next service starts.

# ■ Log messages while downloading

# ●D001 (info)

Message	Download has started.
---------	-----------------------

# ●D002 (info)

Message	Download is completed: No pictures %1
Explanation	There is no downloaded image.
%1	Available disk space [MBIKBlbyte]

# ●D002 (info)

Message	Download is completed: %1 picture(s) ([no picturel%2 picture(s)] deleted, Recorded date of the latest downloaded image: %3) %4
Explanation	There is one or more downloaded image(s).
%1	Number of downloaded images
%2	Number of deleted images
%3	Date of recording when the latest image is downloaded
%4	Available disk space [MBIKBlbyte]

# ●D003 (warning)

Message	Download has aborted.
---------	-----------------------

# ●D004 (err)

Message	Fatal error
---------	-------------

# ●D010 (err)

Message	Not enough memory
---------	-------------------

# ●D011 (err)

Message	Communication error

## ●D012 (err)

Message	Failed to get the server information.
---------	---------------------------------------

## ●D013 (err)

Message	Cannot create a new directory.
---------	--------------------------------

## ●D018 (err)

Message	Work file I/O error
---------	---------------------

## ●D020 (err)

Message	Cannot start because the server is recreating the list of the recorded
	pictures.

## ●D021 (err)

Message	Cannot start because the server is deleting the recorded pictures.
---------	--

## ●D022 (err)

Message	No storage device is found on the server.	
---------	---	--

## ●D023 (err)

Message	The server does not support the required function.
---------	--

## ●D024 (err)

Message	The server does not support the required function, or the port number is
	invalid.

## ●D025 (err)

Message	Could not delete images because login as an Administrator failed.
---------	---

## ●D026 (err)

Message
---------

## ●D027 (err)

Message
---------

## ●D028 (err)

Message	Failed to login.
---------	------------------

## ●D029 (err)

Message	Download was aborted due to insufficient disk space.[%1 remaining, %2 required]
%1	Disk space currently available [MBIKBlbyte]
%2	Disk space required for downloading [MBIKBIbyte]

## ●D030 (info)

Message	Old image was deleted due to insufficient disk space: %1 image(s)
%1	Number of deleted image(s)

## ●D031 (warning)

Message	Additional free space is going to be required on the disk to save images.[%1 remaining, %2 required]
%1	Disk space currently available [MBIKBIbyte]
%2	Disk space required for downloading [MBIKBIbyte]

## ● D032 (err)

Message	Download was aborted because there is no image for deletion due to insufficient disk space.[%1 remaining, %2 required]
%1	Disk space currently available [MBIKBIbyte]
%2	Disk space required for downloading [MBIKBIbyte]

## ●D033 (err)

Message	Another application is accessing the same server.
---------	---

## ●D035 (info)

Message	The number of downloaded images has reached to the limit.
Explanation	This message appears when the number of download images per session reached to the limit.

## ●D036 (info)

Message	Due to shortage of disk space, old images have been deleted.
---------	--

## ●D037 (info)

Message	The content of the image list is invalid.
---------	---

## ●D038 (warning)

Message	Downloading of old images is not available. [Images captured before %1]
%1	The oldest captured date of a downloaded image on the PC when download started.
Explanation	If there is an image left on the server which has been captured earlier than the oldest downloaded image on the PC, the image will not be downloaded.

## ●D039 (err)

Message	The image list cannot be created due to insufficient disk space.
---------	--

## ●D040 (warning)

Message	File saving time took 60 sec. or more.
Explanation	It takes too much time to save file when obtaining images. There is a possibility that CPU load of your PC is too intensive or performance of your PC is approaching to the limit, if this message appears.

## ●D041 (err)

Message	Another task or Service has requested to delete the old image.
---------	--

## ■ Log messages at dial-up connection

## ●P002 (err)

Message	Dial-up connection failed.
Explanation	Unknown connection error

## ●P003 (err)

Message	Dial-up connection error: "%1"
%1	Cause of the connection error
Explanation	Identifiable connection error

# **Specifications**

	VB-C50i/VB-C50iR		
Video signal	Conforms to NTSC/PAL		
Image Sensor	1/4-inch CCD		
Number of pixels	[NTSC] use: 340,000 (effective 630,000) [PAL] use: 400,000 (effective 740,000)		
Synchronization	Internal		
Scanning Method	2 : 1 interlaced		
Min. subject illumination	Normal mode: 1 lux (at 1/30 sec.) / Night mode: 0	lux	
Imaging modes	Normal mode, Night mode		
Focusing	Auto/Manual Wide-angle: 0.01 m (0.03 ft.) to inf.; (In night mode, Wide-angle: 0.02 m (0.07 ft.) to in		
Aperture	Auto iris servo system		
Lens	Focal length 3.5 to 91.0 mm, f/1.6 to f/4.0, 26 × p	ower zoom (shooting at infinity)	
Infrared cut filter	Power-driven insertion/removal (normal mode/nig	ht mode)	
Night mode	Infrared lighting	LEDs (4)	
	Effective lighting range	3 m (9.8 ft.)	
Lens filter diameter	37 mm, pitch=0.75 mm		
White Balance	TTL system, Auto		
Operating system	Linux		
Protocols	TCP/IP, HTTP, DHCP, FTP, WebView (from Can-	on)	
Video compression method	Motion-JPEG (video quality variable), JPEG (for s	still pictures)	
Video compression rate	NTSC: 0.1 fps to 30 fps (variable) PAL: 0.1 fps to 25 fps (variable)		
Sound compression method	μ-law PCM 8bit (sampling frequency 8000Hz mor	10)	
Output image sizes	NTSC: 160 × 120, 320 × 240, 640 × 480 PAL: 192 × 144, 384 × 288, 768 × 576		
Display image sizes	NTSC: 80 × 60, 160 × 120, 320 × 240, 640 × 480 PAL: 96 × 72, 192 × 144, 384 × 288, 768 × 576		
Server	HTTP, FTP, WebView Livescope		
Log management	syslog format		
Camera control	Pan, tilt, zoom, brightness, shutter speed, focus s	speed, view restriction, control time restriction	
Connection restrictions	Access control (password), video connection time connections (maximum of 50)	e, service period, number of concurrent	
Network	Ethernet × 1 (RJ45, 100Base-TX/10Base-T auto-	negotiation)	
Display LED	Status display of network		
Multi-connector	Video IN/OUT: NTSC/PAL composite, BNC terminal (1 each) Audio OUT: monoaural, mini-jack (1) External Device I/O: Input = 2, Output = 3 RS-232C (It will not be used) *Connector for using the Multi-Terminal Module (VB-EX50, sold separately).		
Dimensions	VB-C50i: 104.6 × 130.3 × 109.7 mm (4.11 × 5.13 × 4.32 in.) (W × D × H) VB-C50iR: 136.0 × 130.3 × 110.6 mm (5.35 × 5.13 × 4.35 in.) (W × D × H) (Excludes protruding parts. Includes the mounting plate for the VB-C50iR.)		
Weight	VB-C50i: Approx. 620 g (Approx. 1.4 lb) VB-C50iR: Approx. 700 g (Approx. 1.5 lb)		
Operating environment	Temperature 0-40°C, humidity 20-85% RH (cond	densation free)	
Power	AC adapter, power consumption 25W or less		

<sup>\*</sup>Please refer to P.1-10 to confirm whether your VB-C50i/VB-C50iR is PAL model or NTSC model.

AC Adapter		
Model	PA-V16	
Input	100-240 V AC 50/60 Hz	
Output	13V DC 1.8 A (max.)	
Polarity	Exterior (-) interior (+)	
Size	$58 \times 118 \times 25$ mm (2.28 $\times$ 4.65 $\times$ 0.98 in.) (W $\times$ D $\times$ H) (excluding attachments)	
Weight	Approx. 230 g (Approx. 0.51 lb) (excluding cable)	

<sup>\*</sup> These specifications are subject to change without notice due to product improvements, etc.

## **External Device I/O Terminals**

You can use Input/Output external devices together with the Multi-Terminal Module (VB-EX50).

#### External Device Input Terminals (IN<sup>+</sup>, IN<sup>-</sup>)

The external device input terminals consist of 2 terminals (IN+, IN-). The '-' terminal is grounded on the inside of the main unit. By connecting 2 cables to the + and '-' terminals and then electrically short-circuiting across the terminals (ON) or separating the connection (OFF), an interrupt can be generated for the internal controller. See "Schedule Setting Tool" in Chapter 4 "VB Administration Tools" ( $\rightarrow$  P.4-27) for information on the settings.

Connect any sensors and switches to terminals with electrically separate GND terminals and power supplies.

## External Device Output Terminals (OUT A, OUT B, OUT C)

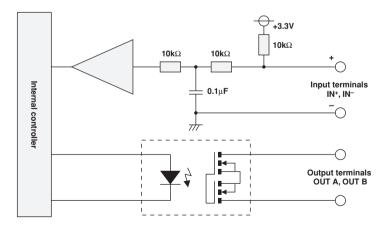
The external device output terminals consist of 3 terminals (OUT A. OUT B. OUT C). There is no distinction between "+" and "-" with OUT A, OUT B and OUT C. The Internal controller switches the 2 output terminals to disconnected or connected condition. The output terminals use photo couplers and are separate from the internal circuit in the VB-C50i/VB-C50iR.

\* External input status can be checked and external output status can be controlled using Admin Viewer  $(\to P.4-65)$ .

Loads connected to the output terminals should be within the following ratings: Rating across the output terminals: Up to 50 V DC

Continuous load current: 100 mA

#### Internal Connection Chart

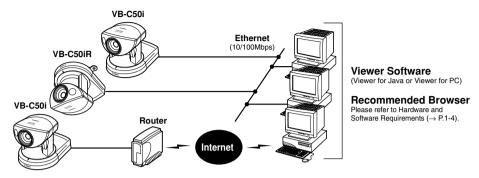




You need the Multi-Terminal Module (VB-EX50) ( $\rightarrow$  P.1-11) to set input/output external device.

## **System Configuration**

## Example of Basic System Configuration - Viewing Videos Using a Viewer



This system configuration consists of the VB-C50i/VB-C50iR with Viewer Software ( $\rightarrow$  P.1-4). The Viewer Software consists of the Viewer for PC and the Viewer for Java.

Viewer for PC must be installed in advance from the supplied CD-ROM, To use the Viewer for Java, you need to install Java VM beforehand.

#### **Viewer Software Functions**

Viewer Software	Functions
Viewer for Java	Videos from the VB-C50i/VB-C50iR can be displayed by a Web browser that can run Java applet.     To use the Viewer for Java, you need to install Java VM beforehand.     Because the Viewer for Java is automatically downloaded and does not need to be pre-installed, unlike the Viewer for PC, it is compatible with any platform that supports Java-capable environments.     Because it uses the HTTP protocol, the Viewer for Java penetrates firewalls. However, it may not run stably on some platforms or browser types.     Also, because the Viewer is downloaded when the Web page loads, start-up times and execution speeds are slower than the Viewer for PC.
Viewer for PC	<ul> <li>An application for viewing videos from the VB-C50i/VB-C50iR that is launched from a Web browser.</li> <li>The Viewer for PC must be pre-installed.</li> <li>Install Viewer for PC from the supplied CD-ROM.</li> <li>Compared with the Viewer for Java, start-up is faster because the Viewer does not need to be downloaded. This Viewer is recommended for users who use the viewer frequently.</li> <li>Because it supports the HTTP protocol, the Viewer for PC penetrates firewalls unscathed.</li> </ul>

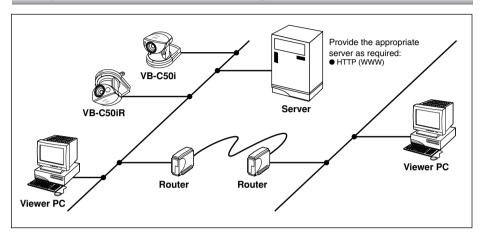


- Install the Viewer for PC from the "VBToolsInstall.exe" file on the supplied CD-ROM (→ P.2-11).
- The User's Manual for the viewer software is provided on the supplied CD-ROM (Viewer-E.pdf).
- To connect the VB-C50i/VB-C50iR to the Internet, you require a leased line connection
  to an Internet service provider or a LAN-type dial-up IP connection. If you are using a
  LAN-type dial-up connection, check that the connection supports bidirectional calling.

## Sample Network Configurations

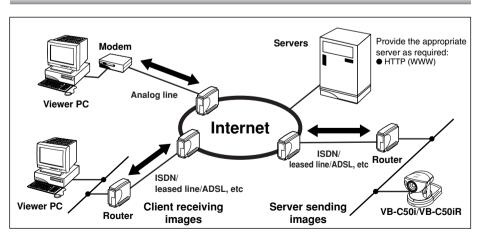
This section describes some typical installation modes for the VB-C50i/VB-C50iR. Be sure to assign an IP address to the VB-C50i/VB-C50iR that matches your environment.

## **Sample LAN Environment Configuration**



This example shows the VB-C50i/VB-C50iR connected to a LAN by Ethernet. In this configuration, videos can be seen by viewers in the same Ethernet segment as the VB-C50i/VB-C50iR and by viewers with access to that segment.

## Sample Configuration in an ISP Environment



This example shows an environment in which the VB-C50i/VB-C50iR is connected to an ISP (Internet service provider). In this configuration, videos can be seen by viewers capable of accessing the ISP. Bidirectional communication is required between the VB-C50i/VB-C50iR and the ISP, and a fixed IP address must be set for the VB-C50i/VB-C50iR ( $\rightarrow$  P.5-26).

## **Upgrading the Firmware Remotely**

Get the new firmware from the WebView Product web site (http://www.canon.com/webview), and upgrade in command prompt. The firmware file is called "Firmware\_new.bin" and is saved on your PC in "My Documents".

#### 1. Open command prompt.

C:\Documents and Settings\xxxx> is displayed on the screen.

#### 2. Specify the folder containing the firmware.

Enter: C:\Documents and Settings\xxxx>cd My Documents

#### 3. Use the ftp command and connect to the VB-C50i/VB-C50iR.

Enter: C:\Documents and Settings\xxxx\My Documents>ftp 192.168.100.1

#### 4. Enter Administrator account and password.

Enter: User (192.168.100.1: (none)): root

Password: VB-C50i

\*Enter the password you are actually using. For more details about changing passwords, please refer to "Setting up the Administrator Passwords and Ethernet etc." ( $\rightarrow$  P.3-5).

#### 5. Change to binary mode.

Enter: ftp> binary

#### 6. Send the firmware to the VB-C50i/VB-C50iR.

Enter: ftp> put Firmware\_new.bin flash

#### 7. Transmission begins.

It normally takes 1-2 minutes to complete transmission.

#### 8. Notification of completion.

"The system upgraded completed successfully" is displayed.

## 9. Log out of the VB-C50i/VB-C50iR and close command prompt.

Enter: ftp> bye

C:\Documents and Settings\xxxx\My Documents> exit



Do not turn the power off until you have confirmed that the VB-C50i/VB-C50iR has restarted. Turning the power off before completion may prevent it from starting up properly.



- The underlined portion is a sample IP address. Enter the actual IP address that was set on the VB-C50i/VB-C50iR (→ P.3-6).
- The user name you are using is displayed in "xxxx" (Windows 2000/XP only).

## **Restoring the Factory Default Settings**

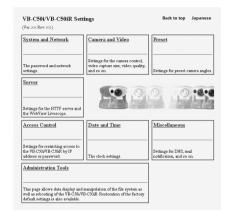
Since the VB-C50i/VB-C50iR supports a wide variety of functions, we recommend that you make a note of the settings for each function (→ P.7-25). If you want to redo the settings from the beginning because you have forgotten them or for some other reason, first restore the factory default settings.

\* Please refer to page 7-25 for more about the factory default settings.

## Restoring the Factory Default Settings from the Administration Tools Page via a Web Browser

1. Launch the Web browser and display the settings title page.

The VB-C50i/VB-C50iR's IP address, user name, and administration password are required when displaying the settings title page  $(\rightarrow P.3-3)$ .



2. On the settings title page, click "Administration Tools".

The Administration Tools page appears.



3. Click the "Restore" button for "Restore Settings".

When the "Restore" button is clicked, the confirmation message appears. To proceed with restoring the default settings, click the "OK" button.





- Do not turn the VB-C50i/VB-C50iR power off while the Restoring operation. If you turn the power off, all settings of the unit restore to the factory default settings.
- If you click the "OK" button at this point, it will not possible to abort the process to restore the default settings. Click the "Cancel" button if you do not wish to restore the default settings.

#### 4. The VB-C50i/VB-C50iR's factory default settings are restored.

Settings other than the Administrator password, or network-related settings such as the VB-C50i/VB-C50iR's IP address, subnet mask, and default gateway address are returned to factory default settings.

## **Resforing the Factory Default Settings from the Reset Switch**

If the VB-C50i/VB-C50iR's IP address or administration password are not known or have been forgotten, the VB-C50i/VB-C50iR cannot be operated over a network. In this case, press the Reset switch at the bottom of the unit

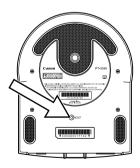
#### 1. Turn off the VB-C50i/VB-C50iR.

See page 2-6 "Turning the Power ON and OFF" for procedures on how to turn OFF and ON the VB-C50i/VB-C50iR's power switch.

# 2. While pressing the Reset switch, turn on the power and keep the Reset switch pressed from more than 5 seconds.

The Reset switch is located toward the rear on the bottom. Use a thin tipped object such as the end of a paper clip to press the Reset switch.

All settings in the VB-C50i/VB-C50iR will be returned to the factory default settings.





If the Reset switch is pressed and all factory default settings are restored, the VB-C50i/VB-C50iR's network-related settings such as IP address, subnet mask, and default gateway address are all also returned to the factory default settings, making it impossible to operate the VB-C50i/VB-C50iR from a PC connected to it. Use "VBSetup.exe" on the supplied CD-ROM to set an IP address appropriate to the environment you will be using ( $\rightarrow$  P.2-7).

# **Factory Default Settings**

Item	Setting Item Setting 1 Item setting		
	<b>g</b>	(m) (d) (y)	(m) (d) (y)
Administrator ID     Administrator password	root VB-C50i		
Settings page path	admin		
Ethernet     Address Setting Method     IP Address     Subnet Mask     Default Gateway Address     Maximum Transmission Unit     Connection Keeping     Send packet regularly     Target IP Address     Interval(min.)	Manual Setting 192.168.100.1 255.255.255.0 1500 NO		
● Video Capture  Video Capture Size  Video Transmission  Motion Detection  Picture Recording  Video Quality(Q-Factor)  Small Size  Medium Size  Large Size  Interlace Mode  Use External Video Input  ● Camera Control  Shutter Speed  Focus Mode  Home Position  Pan  Tilt  Zoom  Brightness  Return to Home Position when  nobody has a control privilege  Apply View Restriction  Upper value  Lower value  Left value  Right value  Right value  Telephoto  Wide-angle	Medium Size Small Size Medium Size 50 50 50 Weave(Interlace) NO Auto Auto Standard NO		
Wide Converter  ● Camera names Built-in Camera External Camera	Not used camera camera2		
Preset(Common Settings) Restrict Camera Control to Presets Auto Preset Tour Tour Schedule Preset Speed(PT) Speed(Z) Pause(sec.) Restrict Preset Tour Time Preset(Preset1-20) Application Preset Name Camera Parameter Pan Tilt Zoom Brightness	NO Not used  1 1 1 0 NO Picture Recording only		

Item	Setting	Item Setting 1 (m) (d) (y)	Item setting 2 (m) (d) (y)
Server(Common Settings) Maximum Number of Clients Maximum Connection Time (sec.) Restrict Service Time HTTP Server HTTP Port Global Address for Web Pages IP Address Port Name Camera Server Video Transmission Port Camera Control Port Maximum Frame Rate (fps) Maximum Transmission Rate (Mbps) Control Queue Length Camera Control Time (sec.) Camera Stabilization Time (msec.) Audio Server Audio Reception Output Volume	50 0 NO 80 IP Address 65310 65311 30 (NTSC)/25 (PAL) 0 50 20 1500 Not used 50		
Authorized User Account User List Access permitted to listed users only Still image Capture permitted to listed users only Authorized/Restricted Host Specification Host List Apply this list to HTTP Server Apply this list to Video Transmission Apply this list to Still Image Capture	NO NO NO NO NO		
Current Camera Time     New Camera Time     Synchronize with computer time     Set manually     Synchronize with NTP server     Time Zone	+9 (Japan time)		
DNS     Name Server Address     Register Host Name     Host Name     Mail     Mail Server Host     Sender's(From) Mail Address     Recipient(To) Mail Address     POP before SMTP     User Name     Password	NO NO		
POP Server  External Device Names  LED	Blinks during transmission		

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