Sanyo VSP-SV2000 Instruction Manual

Network video server

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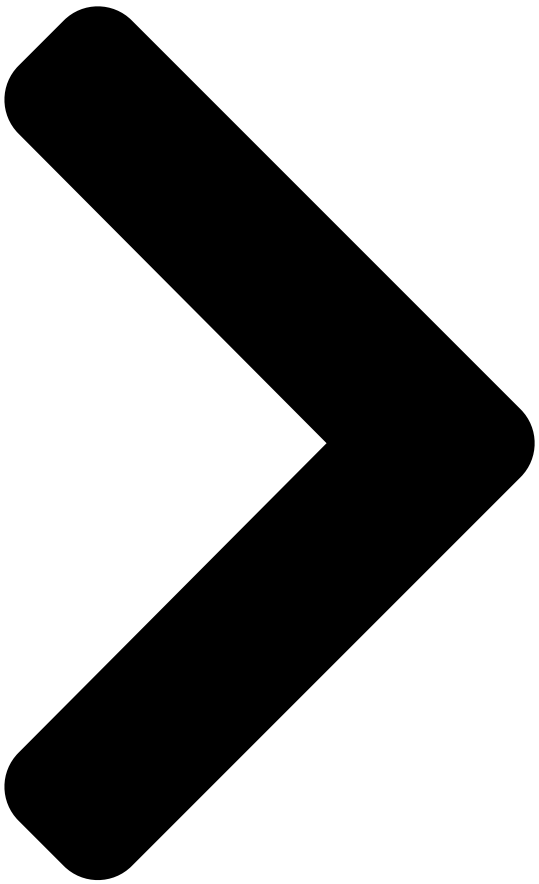

VSP-SV2000

INSTRUCTION MANUAL

Network Video Server

About this manual

Before installing and using this unit, please read this manual carefully. Be sure to keep it
handy for later reference.

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Summary of Contents for Sanyo VSP-SV2000

Page 1

VSP-SV2000 INSTRUCTION MANUAL Network Video Server About this manual Before installing and using this unit, please read this manual carefully. Be sure to keep it handy for later reference.

Page 2: Table Of Contents

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Page 3: Information To User

(2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Sanyo may void the user's authority to operate this video server. – 2 – English...

Page 4: Precautions

If water or a liquid gets inside the video server, disconnect the power cord immediately, and consult your dealer (or a Sanyo Authorized Service Centre). Be careful to protect the video Setup CD-ROM ....1 pc.

Page 5: Features

Features Operating environment Web Server Function This video server is equipped with a web server The video server requires the following function. The video server can be accessed conditions to operate. using a computer's web browser in order to view •...

Page 6: Name And Function Of Each Part

Name and Function of Each Part 6 7 8 9 MODEM TERMI ALARM ALARM RS-232C B A B RS485 ETHERNET ALL RESET 12VDC VIDEO 1 VIDEO 2 VIDEO 3 VIDEO 4 Power cord holder Communication/terminal select switches Secure the power cord to the holder using a (1) TERMI plastic tie or similar as shown in the When using RS-485, set this switch to...

Page 7

Name and Function of Each Part POWER VIDEO IN/OUT terminals PC card eject button • Video input terminals (VIDEO IN 1 – 4) Connect these terminals to the output terminals of the monitoring cameras. • Video output terminals (VIDEO OUT 1 – 4) Connect these terminals to a monitor for pass-through output of the images to the monitor.

Page 8: Connections

Connections Turn off the power for all equipment before making any connections. Basic Connections Connect the video server to a computer. Connect a cable between the ETHERNET connectors of the video server and the computer. Use a crossed wire-type Ethernet cable. Connect the accessory AC adapter to the video server.

Page 9: Connecting To A Lan

Connections Connecting to a LAN Connecting to a Wireless LAN Use an Ethernet cable to connect the This video server can be connected to wired ETHERNET connector of the video server to the LANs using an Ethernet cable, and it can be LAN's Ethernet switching hub.

Page 10: Ppp (Dial-Up) Connections

Connections PPP (Dial-up) Connections If connecting the video server using PPP, you will need to install the Network Archiving software (sold separately). In addition, the data that is transmitted via PPP connections consists of alarm images and alarm information. In addition to the connection method shown below, you can also connect the video server to an ISDN terminal adapter and use the Network...

Page 11: Network Video Server Settings

Network Video Server Settings In order to use the network video server, you must make the

following settings in the order given. When making network connection settings, the network settings must always be made first. Installation of Plug-in Software (p. 11) Use the accessory setup CD-ROM to set up the computer.

Page 12: Installation Of Plug-In Software

Network Video Server Settings 1 Installation of Plug-in Software Install the plug-in software (on the setup CD-ROM) onto the computer that is to be used. Installing the plug-in software makes it possible to view live images from network video server using the computer's web browser.

Page 13 Network Video Server Settings Type in your username and organization Click the [Finish] button. name, and then click the [Next] button. This completes the installation of the plug-in software. Click the [Install] button. Installation of the software will start and the window display will change to show the (Uninstalling the plug-in software) installation progress.

Page 14: Browser Settings

Network Video Server Settings Browser Settings Cookie Settings Check that the Security settings for Microsoft The video server uses cookies. Internet Explorer are set as described below. If using Internet Explorer Version 6.0 as the web Select Internet Options from the Tools menu, browser, select Internet Options from the Tools click the Security tab and then click the Custom menu, click the Privacy tab and then move the...

Page 15: Computer And Video Server Connections

Network Video Server Settings 2 Computer and Video Server Connections Once the plug-in software has been installed, use the computer's web browser to access the video server. Note: The network video server handles large volumes of image data that has been compressed into JPEG2000 format.

Page 16: Accessing Without Setting A Password

Network Video Server Settings Accessing Without Setting a Turn the video server off and then back Password on again. Normally you need to type in a password at the The live images will be displayed directly in password entry screen in order to display the the 4-screen split screen.

Page 17: Network Connection Settings

The main menu window will be displayed. network disconnect button. Available languages: English, French, German, Spanish "SANYO NETWORK VIDEO SERVER, THE UNIT IS DISCONNECTED!" will be displayed, and the video server will be disconnected from the network. Restart the browser when you reconnect to the network.

Page 18: Anetwork Set Settings

Network Video Server Settings A NETWORK SET Settings These settings are used in order to connect the video server to the network. Note: Check with the network system administrator for details on settings related to the network itself, such as IP address settings. Default settings displayed Reset if necessary Click the [NETWORK] button in the main...

Page 19 Network Video Server Settings Changing a password MAC ADDRESS display This shows the Mac address for the video server. Example: To change the password for the Administrator level (ID3) to "1234" Note: • Passwords can consist of between 4 and 8 Up to a maximum of 16 individual users can access numerals.

Page 20: Bwireless Lan Set Settings

Network Video Server Settings B WIRELESS LAN SET Settings These settings are used in order to connect the video server to an access point for a wireless LAN. Insert a wireless LAN card (sold Change the following settings if required. separately) into the PC CARD slot.

Page 21 Network Video Server Settings WEP ENCIPHERMENT Ask the network administrator for the settings below, and type them in the This is a security function that encrypts the appropriate boxes. data being transmitted so that it cannot be • intercepted by an unauthorized third party. IP ADDRESS •...

Page 22: Cppp Set Settings

Network Video Server Settings C PPP SET Settings These settings are used in order to connect

the video server to the Internet via a modem. Note: When using modem connections, you cannot access the video server using a computer’s web browser.

Page 23 Network Video Server Settings AUTHENTICATION AUTO IP ADDRESS display This sets the verification protocol to be used This shows the IP address for the video server. when connecting to the access point. Set this to Note: This is only displayed while the video the protocol specified by the Internet Service server is connected.

Page 24: Menu Screen And Main Menu

Menu Screen and Main Menu • The menu screen is first displayed when the network video server and computer settings have been completed and the language selection is being made. The initial menu screen shows live images. • The main menu can be used to select items that require settings, to select the image quality for live images, and to disconnect the video server from the network.

Page 25: Menu Screen

Menu Screen and Main Menu • SANYO: Appears when no video input [RS-232C] button (p. 43) signal source is connected. In addition, it This button is used to display and change appears when the DISPLAY setting for the communication speed when the video the camera title is set to “OFF”.

Page 26: Viewing Video Server Images

Viewing Video Server Images You can view the images from a video server by starting up the computer’s web browser and using it to access the video server’s network address. Opening and Closing the Initial Screen Start the web browser on the computer. Type the IP address (http://...) into the location bar of the web browser, and then press the [Enter] key.

Page 27 Viewing Video server Images Select the language and then click the [SET] button. The main menu screen will be displayed. When you have finished, click the network disconnect button. – 26 – English...

Page 28: Multi View Settings

MULTI VIEW Settings (View only) Click the [MULTI VIEW] button in the main menu. The 4-screen live image screen will be displayed. The live image screen lets you make settings such as alarm data detection and recording status, and also for the image quality, compression ratio, image size and enlargement ratio for the images that are being transmitted.

Page 29 (View only) MULTI VIEW Settings RESOLUTION setting Live image transmission settings Select the required setting from the respective drop-down list boxes, and then click the [SET] button. This lets you set the image resolution to one of FRAME RATE setting five settings.

Page 30: Saving Images Into A Computer

(View only) MULTI VIEW Settings Saving Images into a Computer IMAGE MODE setting The video server images that are being monitored can be saved as still images in the computer’s storage area in JPEG2000 format. This lets you set whether live images are Right-click on the image that is to be displayed in color or black and white.

Page 31: Single View Settings

SINGLE VIEW Settings Click the [SINGLE VIEW] button in the main menu. This changes the display from a 4-screen display to a single-screen display. At this time, the channel that was last accessed will be displayed. However, if the video server is being started for the first time, the images from the video signals being input will be displayed starting from the smallest number (1 to 4).

Page 32: View Frame Operations

VIEW FRAME Operations Click the [VIEW FRAME] button in the main menu. The menu select buttons will disappear and only the image in the live image screen will be displayed. [BACK] button Click to return to the previous screen. Network disconnect button Click to disconnect from the network.

Page 33: Camera Title Setting

CAMERA TITLE setting Click the [CAMERA TITLE] button in the main menu. You can create camera titles for each camera and have them appear in the camera title display of the “MULTI VIEW” screen. Move the cursor to the current camera title (example: CH_1), and delete this camera title.

Page 34: Alarm Settings

Alarm Settings The video server is equipped with two types of alarm function for each of the four video input channels: an external alarm sensor and a motion sensor. When an outside intruder is detected, these alarm functions can be used to record the images immediately before the alarm occurred (pre-alarm recording) and the alarm images themselves (post-alarm recording) into the video server’s internal memory or onto a memory card.

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Alarm Settings (Connecting an alarm sensor) ALARM BUFFERING setting • BUFFERING AREA setting Connect an infrared sensor or similar to This sets the ratio between the amount of the ALARM IN terminal at the rear of the space for the memory areas used for video server.

Page 36: External Alarm Sensor Setting

Alarm Settings External Alarm Sensor Setting Note: When you click the [SET] button, a pop-up Click the [ALARM] button in the main window will appear asking you to confirm that menu. you want to initialize the alarm data. The ALARM CONDITIONS SET screen will be displayed.

Page 37: Motion Detector Set Settings

Alarm Settings Set the following alarm recording settings Once you have finished changing the as required. settings, click the [SET] button. When an alarm signal is input, the alarm If an outside intruder activates the infrared data is stored in the video server’s memory. sensor, the ALARM indicator illuminates red •...

Page 38: Alarm Data Recording Capacity

Alarm Settings Alarm Data Recording Capacity Check and set the sensitivity. The alarm recording area of the internal memory is Click the [ALARM CHECK] button. approximately 16 MB in size. If all four channels have been set to allow alarm recording, the recording The button will appear green for capacity will be 4 MB for each channel.

Page 39: Expansion Memory Cards

Alarm Settings Expansion memory cards Playing Back Alarm Data • The memory cards that can be used are The data that is stored in the video server’s CompactFlash memory cards with a capacity of 16 internal memory or on an expansion memory MB or greater.

Page 40: Buffer Data View Screen

Alarm Settings BUFFER DATA VIEW screen Click the [FRAME RATE] drop-down list 1 2 3 box and select the playback speed. [TOP] button Note: The alarm data can be saved as still images on This is used to return to the start of the alarm a computer.

Page 41: Playing Back Expansion Memory Card Images

Alarm Settings Playing Back Expansion Memory Deleting Alarm Images Card Images Click the ALARM DATA indicator while it is red or green. Click the [MULTI VIEW] button in the main menu. The ALARM DATA LIST screen will be displayed. The live image screen will be displayed. Select the check boxes (G) for unneeded Click the ALARM DATA indicator while it alarms in the [ALARM DATA] column.

Page 42: Pre-Alarm And Post-Alarm Recording

Alarm Settings Pre-alarm and Post-alarm Recording The video server can record images from the Figure 1 point immediately preceding an alarm (pre-alarm recording) and images that occur after the alarm is received (post-alarm recording). The alarm data for a single pre- and post-alarm event from each channel that has been set to allow alarm recording can be recorded in the video server’s internal memory.

Page 43: Clock Set Settings

CLOCK SET Settings This lets you set the video server’s internal clock. You can also make settings for summer time. Click the [CLOCK] button in the main menu. The CLOCK SET screen will be displayed. Select the values from the drop-down list boxes, and then click the [SET] button.

Page 44: Rs-232C Settings (Rs-232C Set)

RS-232C Settings (RS-232C SET) This sets the communication speed for the RS-232C connector of the video server when the video server is connected to a computer for maintenance and servicing. Click the [RS-232C] button in the main menu. The RS-232C SET screen will be displayed. Select the communication speed from the drop-down list box, and then click the [SET] button.

Page 45: Ssp Settings (Rs-485)

SSP Settings (RS-485) Connect the RS-485 connector of the video server and a device with an SSP communication function. The various input channels (CAM, MPX, VCR, DVR) can then be operated by remote control via the network. Click the [SSP] button in the main menu. Select the “ADDRESS”...

Page 46: Control Panel Displays For Equipment With Ssp

SSP Settings (RS-485) Control Panel Displays for Equipment with SSP (CAM) (MPX) (VCR) (DVR) INDIVIDUAL MULTI VIEW button Select this when operating the connected Click this button to close the SSP operating devices individually. screen. The display will return to the 4-screen split screen.

Page 47: Connection Examples For Equipment With Ssp (Dome Camera)

SSP Settings (RS-485) Connection Examples for Equipment with SSP (Dome Camera) Computer Turn off the power supply for all equipment, and then use twisted pair cables to connect the devices that are equipped with an RS-485 control connector to the video server. Monitor TV MODEM TERMI...

Page 48: Language Selection

LANGUAGE Selection Click the [LANGUAGE] button to change the language. The language selection screen will then be displayed. Once a language is selected, the language setting is stored in memory, so the language selection screen is not displayed the next times you access the video server. STATUS Checking This displays information about the video server status.

Page 49: Troubleshooting

Troubleshooting If the video server cannot be Start the web browser and point it to connected “http://192.168.0.2/”. If the language selection window does not appear when you type the video server’s IP address into the location bar of the web browser, check the following items.

Page 50: Specifications

Specifications Alarm input : 4 (NO/NC) Alarm output : 1 (AND/OR output function for motion detector and external input) Resolution : 720 x 480, 720 x 240, 640 x 480, 320 x 240, 160 x 120 pixel Compression method : JPEG2000 Compression ratio : 5 settings (from 5 KB) Image transfer speed...

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OBLIGATIONS In order to obtain warranty service, the product must be delivered to and picked up from an Authorized Sanyo Service Center at the user’s expense, unless specifically stated otherwise in this warranty. The names and addresses of Authorized Sanyo Service Centers may be obtained by calling the toll-free number listed below.

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