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You can read the recommendations in the user guide, the technical guide or the installation guide for SANYO MPX-CD163. You'll find the answers to all your questions on the SANYO MPX-CD163 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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SANYO

INSTRUCTION MANUAL
MANUEL D'INSTRUCTIONS
MANUAL DE INSTRUCCIONES

MPX-CD163
MPX-CD93

Multiplexer	English	GB
Multiplexeur	Français	F
Multiplexor	Español	E



(MPX-CD163)



(MPX-CD93)

- About this manual**
- Before installing and using this unit, please read this manual carefully. Be sure to keep it handy for later reference.
 - This manual gives basic connections and operating instructions for 2 models.

- À propos de ce manuel**
- Avant d'installer et d'utiliser cet appareil, veuillez lire ce manuel attentivement. Assurez-vous de le garder à portée de la main pour référence ultérieure.
 - Ce manuel couvre les instructions de branchement et d'utilisation de base pour deux modèles.

- Acerca de este manual**
- Antes de instalar y usar este aparato, lea detenidamente este manual. Asegúrese de guardarlo a mano para futuras referencias.
 - Este manual le indica las conexiones básicas y las instrucciones de funcionamiento de dos modelos.



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80 English 3 MAIN FEATURES This multiplexer can display images thasing a 16-screen display or 9-screen display (6-screen display or 13-screen display). When the PLUS button is pressed, the lower-right quarter of the screen is displayed as a single screen area, and the indicator flashes. If you press the camera select button for the image required, that image appears in the quarter screen. The following operations can be carried out when this quarter screen is being displayed. · If the MULTI button is pressed, the screen changes to a 6-screen display or 13-screen display. The image in the quarter screen remains unchanged. (For the MPX-CD93 model, only the 6-screen display is available.) · If the SEQUENCE button is pressed, the SEQUENCE indicator flashes and the quarter screen automatically changes. The automatic screen switching speed can be set using the menu screen. (See page 43.

) 4 Spot monitor button (SPOT MON.) This button is used to set spot monitoring. (See page 29.) 5 Multiple display button and indicator (MULTI) This button lets you switch the display to a 16-screen display or 9-screen display while monitoring is being carried out using the single-screen or 4-screen display. When the MULTI button is pressed, the 9-screen display or 16-screen display appears, and the split-screen display then changes each time the button is pressed again. The indicator illuminates, but turns off when any other screen switching operations are carried out. · The split-screen display positions can be rearranged using the menu screen. (See page 41.) · For the MPX-CD93 model, a 9-screen display will appear. The 16-screen display is not available.

8 Live image button and indicator (LIVE) Press this button to view camera images. The indicator will illuminate and the camera images will appear on the monitor. English 5 PART NAMES (MPX-CD93) 9 Video playback button and indicator (VCR) Press this button to play back recorded images. The indicator will illuminate and the video playback images will appear on the monitor. L Setting buttons (+,) · These buttons are used to change the setting values in the

If a coaxial cable camera (such as a dome-type camera) is connected, these buttons can be used to carry out zoom operation.

menu screens (setting screens). F Automatic camera switching button and indicator (SEQUENCE) This button is used to automatically change the camera image appearing in the single-screen, 4-screen or quarter screen (plus screen) display. When the SEQUENCE button is pressed, the indicator flashes and the screen changes automatically. The camera indicator also changes to match the images on the screen. Still image button and indicator (STILL) If this button is pressed while monitoring is being carried out using the single-screen display, the indicator will flash and the image will be paused.

If the button is pressed once more, the image returns to normal. Furthermore, if these buttons are pressed after a camera select button, manual focus adjustment is possible. They can also be used to adjust the playback speed when recorded images from a digital video recorder are being played back. M Cursor buttons · These buttons can be used to select items while a menu screen · If a camera that can be controlled via a coaxial cable (such as a dome-type camera) is connected, these buttons can be used to carry out pan and tilt operations. They can also be used to carry out playback, stop, pause and reverse operations when recorded images from a digital video recorder are being played back. (setting screen) is displayed. G H Electronic zoom button and indicator (ZOOM) If monitoring is being carried out using the single-screen display, the image can be enlarged by 2x. When this button is pressed, the indicator will flash and the 2x zoom screen will be displayed. N Menu reset/Clock adjust button (MENU RESET) If this button is pressed while a menu screen (setting screen) is displayed, the settings in the currently-displayed menu screen are reset to their default values. If this button is pressed while monitoring camera images, the clock is adjusted and the minutes and seconds are reset to 00.

I J Menu button and indicator (MENU) This button is used to display the menu screen. Next screen button and indicator (NEXT) sub-menu setting screen is displayed. · If this button is pressed while a menu screen is displayed, a · If a camera that can be controlled via a coaxial cable (such as a dome-type camera) is connected, this button can be used for one-touch focus adjustment. Playback of recorded images from multiple digital video recorders is carried out by selecting the images at the digital video recorders. K Cancel/display button and indicator (BACK) · If this button is pressed while a sub-menu screen is displayed, · If this button is pressed while monitoring camera images, the on-screen displays (such as titles) can be turned on and off.



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the screen returns to the previous level menu screen. 6 English PART NAMES Rear (MPX-CD93) (MPX-CD163) IN 1 2 3 4 CAMERA 5 6 7 8 9 IN 1 2 3 4 5 6 7 8 CAMERA 9 10 11 12 13 14 15 16 ALARM IN AC IN C 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 OUT VCR IN OUT MAIN MONITOR IN VCR OUT MAIN MONITOR 1 SPOT MONITOR 3 2 4 OUT VCR IN OUT MAIN MONITOR IN VCR OUT MAIN MONITOR 1 SPOT MONITOR 2 3 4 IN DIGITAL OUT RS485 A B SENSOR ALARM OUT RS232C RS485 TERMINATE ON ALL RESET OFF RS485 C A B ALARM OUT C C REMOTE SW IN R1 R2 C C S-VIDEO S-VIDEO DO NOT CONNECT TO PHONE LINE CONTROL 1 Camera video input connectors (CAMERA IN 1 16) Connect to the output connectors of the monitoring cameras. The MPX-CD93 model has nine input connectors. M Control connector (CONTROL) Pin C A B C AL C R1 R2 C SW C Ground RS-485 connector* RS-485 connector* Ground Alarm output (DC 5V) Ground Remote control input 1 Remote control input 2 Ground Switch input (DC 5V) Ground Signal 2 Camera video output connectors (CAMERA OUT 1 16) These are pass-through connectors that output camera images to an external monitor. The MPX-CD93 model has nine output connectors.

3 4 5 6 7 8 9 F G H I VCR S-Video input connector (S-VIDEO VCR IN) VCR S-Video output connector (S-VIDEO VCR OUT) Main monitor S-Video output connector (MAIN MONITOR S-VIDEO OUT) VCR input connector (VCR IN) VCR output connector (VCR OUT) Main monitor output connector (MAIN MONITOR) Spot monitor output connectors (SPOT MONITOR 1 4) Digital input connector (DIGITAL IN) Digital output connector (DIGITAL OUT) RS-485 control connectors (RS485 A/B) RS-232C connector (RS232C) This connector can be connected to the RS232C connector of a computer using a D-Sub 9-pin cable (sold separately) so that control of the multiplexer can be carried out by the computer. * Used for twisted-pair cable connection. N Alarm input connectors (ALARM IN 1 16) If external alarm switches that are connected to these connectors are turned on or off, an alarm is output from the AL pin of the control connector. The MPX-CD93 model has nine alarm input connectors. O Power cord holder Secure the power cord to the holder using the accessory cord tie as shown in the illustration.

J Sensor alarm output connector (SENSOR ALARM OUT) Outputs alarm signals when a camera that is connected to one of the CAMERA IN connectors receives a sensor alarm. The MPX-CD93 model has nine alarm input connectors. All reset button (ALL RESET) RS-485 termination switch (RS485 TERMINATE) P Power socket (AC IN-) Securely insert the accessory power cord into the power socket, and insert the power cord plug into a wall outlet. When the power cord is inserted into the wall outlet, the POWER indicator and other indicators will illuminate. K L English 7 CONNECTIONS Basic connections (MPX-CD163 model) Nine cameras can be connected to the MPX-CD93 model.

Turn off the power for all components before connecting them. Be sure to carefully read the Instruction Manual for all equipment being connected to the multiplexer. If the connections are incorrect, smoke or operating malfunctions may result. VIDEO IN connector RS-485 connector 1 5 9 13 2 6 10 14 3 7 11 15 4 8 12 16 System controller (sold separately) TV monitor (sold separately) ALARM IN connector Ground (C) Time lapse VCR (sold separately) Ground (C) Switch output connector Connecting high image quality (S-VHS) video equipment S-VIDEO IN connector S-VIDEO OUT connector S-VIDEO IN connector 1 5 9 13 2 6 10 14 3 7 11 15 4 8 12 16 Time lapse VCR (sold separately) 8 English CONNECTIONS Digital connections A Digitally connecting four multiplexers Up to four of these units can be connected for monitoring. By connecting several units, up to 64 cameras can be viewed with one main monitor. Also, by connecting a recorder to each multiplexer, playback of recorded images can be viewed on the main monitor. * For the MPX-CD93 model, the total number of cameras that can be viewed with one monitor is 36, nine to each unit. Use straight-type CAT-5 RS485 cables (sold separately) to connect the DIGITAL IN connectors to the digital output connectors of other devices. Use cables with a length of 3 m or less. 1 16 Main multiplexer Main monitor 1 5 9 13 2 6 10 14 3 7 11 15 4 8 12 16 TV monitor (sold separately) or Digital video recorder (sold separately) Time lapse VCR (sold separately) 17 32 DIGITAL IN Cable (straight-type CAT-5, 3 m or less) DIGITAL OUT Sub 1 or Digital video recorder (sold separately) Time lapse VCR (sold separately) DIGITAL IN 33 48 DIGITAL OUT Sub 2 or Digital video recorder (sold separately) Time lapse VCR (sold separately) DIGITAL IN 49 64 DIGITAL OUT Sub 3 or Digital video recorder (sold separately) Time lapse VCR (sold separately) Note: (Main unit and sub-units) · Main unit and sub-units must be specified.

Distinguishing a main unit and sub-units enables the main unit to display the camera images of a sub-unit on the monitor. (See page 50.) · Since no video signal is output from the main monitor output connector on the rear panel of a sub-unit, if a monitor is connected the screen will be black. · If these connections have been made, a digital video recorder cannot be connected digitally. English 9 CONNECTIONS B Digitally connecting the multiplexer and a digital video recorder This unit and a digital video recorder can be connected digitally to provide high-resolution playback of recorded images. Use straight-type CAT-5 RS485 cables (sold separately) to connect the DIGITAL IN connectors to the digital output connectors of other devices. Use cables with a length of 3 m or less. 1 16 Main monitor 1 5 9 13 2 6 10 14 3 7 11 15 4 8 12 16 Main multiplexer TV monitor (sold separately) DIGITAL IN Time lapse VCR (sold separately) DIGITAL OUT Cable (straight-type CAT-5, 3 m or less) DIGITAL IN DIGITAL OUT ALARM IN connector Ground (C) Digital video recorder (sold separately) 10 English CONNECTIONS System control connections Use the RS485 connector or the CONTROL connector to connect a system controller to the multiplexer. After connecting the system controller, you will need to carry out the settings that are given in the CONTROL SET menu. (See page 72.)

) A When using the RS485 (RJ-11) connector Connect modular cables (sold separately) to the RS485 control connectors at the rear of the multiplexer. · If using a straight-type cable Connect connector A to connector A and connector B to connector B. · If using a cross-type cable Connect connector A to connector B and connector B to connector A.



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Straight type 1 2 6 3 4 5 6 Spare Spare To other connector A To other connector A Straight-type cable Cross-type cable Cross type 1 2 6 3 4 5 6 Spare Spare
1 Spare Spare 1 2 1 3 4 5 6 6 1 Spare Spare 1 2 1 3 4 5 6 6 B When using the CONTROL connector (A/B) Connect a twisted-pair cable (sold separately) to the
A, B and C (ground) terminals of the CONTROL connector at the rear of the multiplexer. Connect signal A to signal A and signal B to signal B.

Push the cable in. Twisted-pair cable Ground To signal B To signal A Computer control When connecting the multiplexer to a computer (sold separately), use
a D-Sub 9-pin cable (sold separately) to connect the RS-232C connector to the computer. After connecting, you will need to carry out the settings that are
given in the CONTROL SET menu. (See page 72.) Computer A B English 11 CONNECTIONS External alarm sensor setup In order to make an external
alarm sensor operate, an external switch must be connected to an ALARM IN connector.

When an intruder activates the external switch (such as by opening a door), an alarm signal is received and an alarm can be made to sound. The MPX-CD93
model uses the connectors marked *. Connect an external switch to an ALARM IN connector Using as a monitor board during a motion sensor alarm When
the motion sensor built into the multiplexer responds to an alarm, it outputs an alarm signal to the SENSOR ALARM OUT connector. If a switching circuit
such as a warning lamp is connected to this connector, the warning lamp will illuminate when there is a response from the motion sensor. If the warning lamp
is fixed somewhere in the layout diagram for an area such as a factory, the location of the camera can be ascertained in an instant during an emergency. The
connector is always open. The pin corresponding to the number of the camera that generates a sensor response switches to Low. * * * * * 1K Rated
values for each connector (at 25°C) · Max. current 25mA · Max. voltage 25V · Max.

power 40mW SENSOR ALARM OUT connector Connecting a remote control circuit If a remote control circuit is constructed as shown in the illustration and
connected to the remote control input (R1 and R2) terminals of the CONTROL connector, the multiplexer can be operated by remote control. (Contact LOW
input) The MPX-CD93 model can control up to nine cameras. R1 220 R2 220 SW 1: Camera1 220 SW 17: Menu selection 220 SW 2: Camera2 300 SW 18:
Video playback 300 SW 3: Camera3 360 SW 19: Live image 360 SW 4: Camera4 470 SW 20: Multi display 470 SW 5: Camera5 680 SW 21: Plus display 680
SW 6: Camera6 820 SW 22: Auto camera switching 820 SW 7: Camera7 1.2k SW 23: Electronic zoom 1.2k SW 8: Camera8 1.8k SW 24: Still image 1.8k SW 9
: Camera9 SW 25: Spot monitor 2.2k SW: Switch 2.2k SW 10 : Camera10 3.3k SW 26: 4-screen display 3.

3k Note: The remote control cable should be no more than 5 m long. SW 11 : Camera11 4.7k SW 27: Next 4.7k SW 12 : Camera12 7.5k SW 28: Previous 7.
5k SW 13 : Camera13 13k SW 29: + 13k SW 14 : Camera14 27k SW 30: 27k SW 15 : Camera15 68k SW 31: 68k 3 2 SW 16 : Camera16 SW 32: 12 English
MONITORING FUNCTIONS Following is a summary of the operations that can be carried out while monitoring camera images. Refer to the corresponding
page numbers for more detailed explanations. Viewing camera images (See page 15.) x Viewing a single-screen image (See page 15.) ZOOM Viewing
recorded images (See page 23.

) The following operations can be carried out while monitoring camera images and when playing back images that have been recorded. 4 Zoom Single-screen
STILL Still image x Viewing multiple-screen images (See page 18.) PLUS MULTI 9-screen display MULTI 6-screen display QUAD 4-screen display PLUS
16-screen display 13-screen display For the MPX-CD93 model, a 9-screen display will appear. x Viewing automatically switching images (See page 20.)
SEQUENCE Automatic switching of single-screen display Automatic switching of 4-screen display English 13 MONITORING FUNCTIONS Alarm function
Suspicious people can be detected while monitoring by using the alarm setting function. (See page 60.) External alarm sensor External alarm (See page 12.)
CAMERA 1 Motion sensor alarm (See page 67.) A A CAMERA 4 A A Signal loss detection alarm (See page 68.) VIDEO VIDEO LOSS LOSS VIDEO LOSS
Recording function A video recording device can be used to record camera images and alarm images taken during monitoring.

Program recording (See page 56.) Active recording (See page 64.) Monitor Monitor Monitor VCR Records camera images VCR Recording priority is given to
alarm images. Timer function By using the timer function, a single day can be divided into four different time and each camera can be operated separately
during each time zone. Morning Afternoon Night Timer 1 Timer 2 Timer 3 Timer 4 6:00 11:00 Images from cameras 1, 3, 5 and 6 are switched automatically
11:00 13:00 Images from cameras 8, 9, 10 and 16 are switched automatically 13:00 18:00 Images from cameras 7, 11, 12 and 13 are switched automatically
18:00 6:00 Images from cameras 4, 6, 9, 12 and 16 are switched automatically Automatic switching display and recording of different camera images can be
specified for each time zone. Furthermore, if sensor alarms are set, intruders can be detected during those time zones. · Timer setting (See page 36.) · Using
the timer function for automatic switching display (See page 45.) · Using the timer function to record images (See page 58.) · Using the timer function to
detect motion alarms (See page 67.

) · Using the timer function to cover the camera image with a gray pattern (See page 48.) 14 English VIEWING CAMERA IMAGES Viewing a single-screen
image Press the LIVE button. LIVE The camera image appears as a split-screen. Setting the camera image to single-screen display Press a camera select
button (example: 2). 2 The camera 2 image appears as a single-screen.

Pausing images 1 STILL Press the STILL button. The image will be paused. 2 STILL To cancel the still image, press the STILL button once more. Pausing will
be canceled and normal images will appear. Note: If you press the ZOOM button while the image is paused, the still image will be enlarged.

To return to the original still image, press the ZOOM button once more. STILL ZOOM STILL English 15 VIEWING CAMERA IMAGES Enlarging images
Press the ZOOM button. ZOOM 1 The images will be enlarged. Note: If you set a zoom frame, the area of the image inside the zoom frame will be enlarged.



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(See page 17.) If you press the camera select button while zooming, the image will be easier to see due to the movement of the subject. The following changes will occur if you press the camera select button repeatedly. Large subjects become clearer and moving subjects appear a little rough. An image with large movement (normal viewing) The image of a moving subject becomes clearer and subjects with little movement appear a little rough. Image with little movement · An image with little movement (almost a still image) Enlarged image is a little rough 2 Subject becomes clearer · Image with large movement 4 Enlarged image is a little rough Subject becomes clearer ZOOM To return an enlarged image to normal image display, press the ZOOM button once more.

The zoom will be canceled and normal images will appear. 2 16 English VIEWING CAMERA IMAGES Example: To zoom in on the camera 2 image and move the zoom frame You can select the zoom position by means of the zoom frame which appears on the screen. The position of the zoom frame is initially set to the middle of the screen. Press camera select button 2. 2 The camera 2 image will appear in a single-screen display. 1 Press the ZOOM button. ZOOM The images will be enlarged. 2 2 Press and hold camera select button 2 for about 3 seconds or more. The zoom will be canceled and the normal image will appear, and the zoom frame (G) will appear on the screen. Note: If the zoom frame remains on the screen for about 10 seconds without being adjusted, the screen will return to zoom display.

To make the zoom frame reappear, press and hold camera select button 2 again for 3 seconds or more. 3 Press the cursor button to move the zoom frame to the position you wish to enlarge. 4 Press camera select button 2 once more. 2 5 The image in the repositioned zoom frame will be enlarged. Note: If you press the STILL button while the images are being zoomed, an enlarged still image will be displayed.

ZOOM To return an enlarged image to normal image display, press the ZOOM button once more. The zoom will be canceled and normal images will appear. 6 English 17 VIEWING CAMERA IMAGES Viewing multiple-screen images Images from the cameras that are connected to the multiplexer can be displayed in several split-screen formats. Furthermore, the images from each camera can be displayed in any position within the split screen. (See page 41.)

) Press the LIVE button. LIVE Viewing images as 9-screen or 16-screen displays Press the MULTI button. MULTI The display switches between 9-screen and 16-screen displays each time the MULTI button is pressed. To return to a single-screen display, press a camera select button. For the MPX-CD93 model, only the 9-screen display is available with no switching. Viewing images as a 4-screen display 1 QUAD Press the QUAD button. Images appear as a 4-screen display. 2 QUAD Press the QUAD button once more. Camera images are switched in 4-screen display units (1 4, 5 8, 9 12, 13 16) each time the button is pressed. To return to a single-screen display, press a camera select button.

For the MPX-CD93 model, a 4-screen display of images from cameras 1 4, 5 8, or 9 3 will appear each time the button is pressed. 18 English VIEWING CAMERA IMAGES Plus screen viewing The plus screen allows you to display the image from each camera as a quarter-screen picture in the lower right corner of the split-screen display, and images being recorded or played back can be monitored. Example: To display images from camera 2 in the plus screen Set the recording device to playback mode. 1 PLUS Press the PLUS button. The display changes to show a 13-screen display with a plus screen as a quarter-screen picture in the lower-right corner. For the MPX-CD93 model, a 6-screen display appears. 1 PLUS Press the PLUS button. The plus screen is displayed. 2 VCR Press the VCR button. This sets the plus screen to video playback mode.

Plus screen 2 MULTI Press the MULTI button. The display switches between 13-screen and 6-screen each time the MULTI button is pressed. 3 2 Press camera select button 2. The plus screen changes to show the images being recorded by camera 2. 3 12 Press a camera select button (example: 12). The images from the selected camera will be displayed in the plus screen. To cancel the plus screen, press the PLUS button once more. For the MPX-CD93 model, press a camera select button numbered 9 or less. English 19 VIEWING CAMERA IMAGES Viewing automatically switching images The camera images are switched automatically in the order that has been set using the SEQUENCE settings. (See page 43.)

) Press the LIVE button. LIVE Automatically switching of the single-screen images Press the camera select buttons (example: 1, 5, 7) to select the camera numbers for automatic switching. The camera select buttons for the cameras that were selected are stored in memory. The indicator lamp will light up when the next button is pressed. 1 1 Press the SEQUENCE button. SEQUENCE Camera images will be switched automatically in the order 1, 5 and 7. 2 To cancel automatic switching, press the SEQUENCE button. SEQUENCE Automatic switching will be canceled and normal images will appear. 3 20 English VIEWING CAMERA IMAGES Automatically switching of the 4-screen images Press the QUAD button. QUAD Images appear as a 4-screen display.

1 Press the SEQUENCE button. SEQUENCE 2 Camera images will be switched automatically in 4-screen display units (1 4, 5 8, 9 12, 13 16). For the MPX-CD93 model, images from cameras 1 4, 5 8, or 9 3 will be switched automatically. SEQUENCE Press the SEQUENCE button once more to return to the 4-screen display. Automatic switching will be canceled and 4-screen display will be restored. 3 Automatically switching of the plus screen image Press the PLUS button. PLUS The plus screen is displayed. 1 Press the SEQUENCE button. SEQUENCE The camera images in the plus screen will be switched automatically. 2 SEQUENCE Press the SEQUENCE button once more to return to the plus screen.

Automatic switching will be canceled and the plus screen will appear. To cancel the plus screen, press the PLUS button once more. 3 English 21 VIEWING CAMERA IMAGES Displaying and automatically switching recorded images in the plus screen Set the recording device to playback mode. Press the PLUS button. PLUS The plus screen is displayed.

1 Press the VCR button. VCR This sets the plus screen to video playback mode. 2 Press the SEQUENCE button. SEQUENCE The playback images in the plus screen will be switched automatically. 3 SEQUENCE Press the SEQUENCE button once more to return to the plus screen.



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Automatic switching will be canceled and the plus screen will appear. To cancel the plus screen, press the PLUS button once more. 4 22 English VIEWING RECORDED IMAGES Playing back recorded images in a single-screen display Press the VCR button to playback from the connected recorder. VCR Note:

Start playback on the recorder. If the playback image was not recorded through this unit, it will not be displayed correctly. "NO ID" will appear on the screen. Playing back in a single-screen Press a camera select button (example: 2). 2 The recorded images will be played back in a single-screen. 1 Pausing recorded images Press the STILL button. STILL The image will be paused.

1 STILL To return a still image to normal image display, press the STILL button once more. Pausing will be canceled and normal images will appear. Note: If you press the ZOOM button while an image is paused, the still image will be enlarged. To return to the original still image, press the ZOOM button once more. 2 Enlarging recorded images Press the ZOOM button. ZOOM 1 The images will be enlarged. Note: If you set a zoom frame, the area of the image inside the zoom frame will be enlarged. (See page 24.) ZOOM To return an enlarged image to normal image display, press the ZOOM button once more. The zoom will be canceled and normal images will appear.

2 English 23 VIEWING RECORDED IMAGES Example: To zoom in on a specific part of the camera 2 image You can use the zoom frame that appears on the screen to select the position you wish to enlarge. The zoom frame is set initially at the center of the screen. Press camera select button 2. 2 The camera 2 image will appear in a single-screen display. 1 Press the ZOOM button.

ZOOM The images will be enlarged. 2 2 Press and hold camera select button 2 for about 3 seconds or more. The zoom will be canceled and the normal image will appear, and the zoom frame (G) will appear on the screen. Note: If the zoom frame remains on the screen for about 10 seconds without being adjusted, the screen will return to zoom display. To make the zoom frame reappear, press and hold camera select button 2 again for 3 seconds or more.

3 Press the cursor button to determine the position you wish to enlarge. 4 Press camera select button 2 one more. 2 5 The area of the image inside the zoom frame will be enlarged. Note: If you press the STILL button while the images are being zoomed, an enlarged still image will be displayed. ZOOM Press the ZOOM button once more to return the enlarged image to the normal image. The zoom will be canceled and normal images will appear. 6 24 English

VIEWING RECORDED IMAGES Playing back multiple-screen displays Recorded images can be displayed in several split-screen formats. Furthermore, the images from each camera can be displayed in any position within the split-screen. (See page 41.) Press the VCR button.

VCR Playing back images as 9-screen or 16-screen displays Press the MULTI button. MULTI The display switches between 9-screen and 16-screen each time the MULTI button is pressed. To return to a single-screen display, press a camera select button. For the MPX-CD93 model, only the 9-screen display is available with no switching. Playing back images as a 4-screen display 1 QUAD Press the QUAD button. Images appear as a 4-screen display. 2 QUAD Press the QUAD button once more. Camera images are switched in 4-screen display units (1 4, 5 8, 9 12, 13 16) each time the button is pressed. To return to a single-screen display, press a camera select button. For the MPX-CD93 model, a 4-screen display of images from cameras 1 4, 5 8, or 9 3 will appear each time the button is pressed.

English 25 VIEWING RECORDED IMAGES Playing back images as 13-screen or 6-screen displays (plus screen) Press the PLUS button. PLUS 1 The display changes to show a 13-screen or 6-screen display with a plus screen as a quarter-screen picture in the lower-right corner. Plus screen Press the MULTI button. MULTI 2 The display switches between 13-screen and 6-screen each time the MULTI button is pressed. For the MPX-CD93 model, only the 6-screen display is available with no switching.

Press a camera select button (example: 12). 12 3 The playing back images from the selected camera will be displayed in the plus screen. To cancel the plus screen, press the PLUS button once more. For the MPX-CD93 model, press camera select button 9. 26 English VIEWING RECORDED IMAGES Playing back automatically switching images Recorded images are switched automatically in the order that has been set using the SEQUENCE settings.

(See page 43.) Press the VCR button. VCR Automatic switching of the single-screen playback images Press the camera select buttons (example: 1, 5, 7). 1 1 Press the SEQUENCE button. SEQUENCE The recorded images are automatically switched in the order set. 2 SEQUENCE To cancel automatic switching, press the SEQUENCE button once more. Automatic switching will be canceled and normal images will appear. 3 English 27 VIEWING RECORDED IMAGES Automatically switching of the 4-screen playback images Press the QUAD button. QUAD Images appear as a 4-screen display. 1 Press the SEQUENCE button.

SEQUENCE 2 Camera images will be switched automatically in 4-screen display units (1 4, 5 8, 9 12, 13 16). For the MPX-CD93 model, images from cameras 1 4, 5 8, or 9 3 will be switched automatically. SEQUENCE To cancel automatic switching, press the SEQUENCE button once more. Automatic switching will be canceled and a 4-screen display will appear. 3 Automatically switching of the plus screen playback image Press the PLUS button. PLUS The plus screen is displayed. 1 Press the SEQUENCE button. SEQUENCE The playback images in the plus screen will be switched automatically. 2 SEQUENCE To cancel automatic switching, press the SEQUENCE button once more. Automatic switching will be canceled and a plus screen will appear.

To cancel the plus screen, press the PLUS button once more. 3 28 English VIEWING WITH SPOT MONITOR Four monitors can be connected to the spot monitor output connectors on the rear panel of this unit. Even while the main monitor is showing camera images as split screens or playback, the camera images can be displayed on the spot monitors as single-screen or automatic switching images. Connection and display example Main monitor (16-screen display) Spot monitor 2 (single-screen display) Spot monitor 1 (automatic switching) Spot monitor 3 (automatic switching) SPOT MONITOR Spot monitor 4 (automatic switching) Spot Monitor Button Functions When the SPOT MON. button is pressed in camera image (LIVE) or playback (VCR) mode, each spot monitor goes into selection standby condition.



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If the SPOT MON. button is pressed once more, LIVE or VCR mode is enabled. · Selection of spot monitor 1 1 2 · Selection of spot monitor 2 1 2 · Selection of spot monitor 3 1 2 · Selection of spot monitor 4 1 2 English 29 VIEWING WITH SPOT MONITOR Spot monitor settings 3 The image on spot monitor 4 is controlled with the following buttons. 1 Press the SPOT MON. button.

SPOT MON. Camera select buttons 1 to 4 flash and spot monitor selection standby condition is enabled. Note: · If a button from 1 to 4 is pressed while the indicators are flashing, the spot monitor corresponding to the number of the button pressed will be selected. · If MAIN SPOT1 on the DISPLAY SET menu are ON, the spot monitor 1 image will be the same as the main monitor screen. · To view each screen as a single-screen. · To set all cameras from 1 to 16 to automatic switching. · To set only cameras 1, 2 and 3 to automatic switching. Specify SPOT MONITOR 4 under SEQUENCE on DISPLAY SET screen. (See page 45.) (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) ▣▣▣▣▣▣▣▣ Press each camera select button.

Press the SEQUENCE button. (DISPLAY SET) TITLE DOWN ▣ MULTI SCREEN NORMAL ▣ SEQUENCE INDIV. ▣ MASK ON ▣ MAINSPOT1 OFF DIGITAL CONNECTION OFF COLOR LEVEL AUTO (*:NEXT) (SEQUENCE SET) MAIN SPOT SPOT SPOT SPOT QUAD MONITOR MONITOR-1 MONITOR-2 MONITOR-3 MONITOR-4 1S ▣ 1S ▣ 1S ▣ 1S ▣ INDIV. ▣ 1S * (SPOT MON.4 SEQ.SET) IN 01: ON 02: ON 03: ON 04: OFF 05: OFF 06: OFF 07: OFF 08: OFF IN 09: OFF 10: OFF 11: OFF 12: OFF 13: OFF 14: OFF 15: OFF 16: OFF 2 4 SPOT MON. Press a camera select button (example: 4). Spot monitor indicator 4 and the SPOT MON. indicator will flash and S4 will appear (flashing) on the screen of spot monitor 4. Note: S1 to S4 will appear flashing on the screen of each selected spot monitor.

INDIV. INTERVAL (*:NEXT) 4 Press the SPOT MON. button twice. Camera image (LIVE) or playback (VCR) mode is enabled. Spot monitor 4 30 English MENU FLOWCHART AND MENU OPERATIONS Menu flowchart (LANGUAGE) ENGLISH FRANCAIS ESPANOL NEXT (CLOCK SET) 01-01-2001 MON 00:00:00 NEXT (TIMER TIMER-A T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 SET) TIMER-B T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 A A A (DAY LIGHT SET) ON OFF WEEK MON TIME 1ST-SUN 04 02:00 LST-SUN 10 02:00 TIMER DAY LIGHT ON ON ▣ ▣ SEQUENCE PROGRAM REC MASK MOTION SENSOR NEXT (*:NEXT) (DISPLAY SET) NEXT NEXT NEXT TITLE DOWN ▣ MULTI SCREEN CHANGE ▣ SEQUENCE INDIV. ▣ MASK ON ▣ MAINSPOT1 OFF DIGITAL CONNECTION OFF COLOR LEVEL AUTO (*:NEXT) CAMERA NO.01 -----01 (POSITION SET) QUAD 01 02 : 05 06 03 04 : 07 08 -----09 10 : 13 14 11 12 : 15 16 (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) MENU (VCR SET) ▣▣▣▣▣▣▣▣ RECORDER REC.SPEED ALARM REC.SPEED SW.IN EDGE REC.

PICTURE NEXT TLS 2H 2H Ꞇ 01 ONLY * NEXT PROGRAM REC. (*:NEXT) IN 01:ON 02:ON 03:ON 04:ON 05:ON 05:ON 07:ON 08:ON (PROGRAM REC.SET) T-1 IN 09:ON 10:ON 11:ON 12:ON 13:ON 14:ON 15:ON 16:ON NEXT (SEQUENCE SET) MAIN SPOT SPOT SPOT SPOT QUAD MONITOR MONITOR-1 MONITOR-2 MONITOR-3 MONITOR-4 1 1 1 1 1 1 S S S S S S ▣▣▣▣▣▣ (ALARM SET) ALARM ACTIVE REC. MOTION SENSOR VIDEO LOSS NEXT (ALARM OPERATION SET) ALARM EXT.OR M.SENSOR NEXT ON ON ON OFF * * * NEXT DURATION RETRIGGER ALARM LIST BUZZER ALARM DISPLAY (*:NEXT) INDIV.* ON ON ON ▣ (*:NEXT) (*:NEXT) (ACTIVE REC.SET) AL.REC.EXT.

REC.MODE MODE1 (MASK SET) T-1 IN 01:OFF 02:OFF 03:OFF 04:OFF 05:OFF 06:OFF 07:OFF 08:OFF IN 09:OFF 10:OFF 11:OFF 12:OFF 13:OFF 14:OFF 15:OFF 16:OFF NEXT NEXT NEXT NEXT

-----CAMERA NO.01 T-1 LEVEL:OFF MODE:A (ALARM DISPLAY SET) ALARM DISPLAY DOUBLE ALARM FULL LAST (SPOT MONITOR SET) NEXT SPOT SPOT SPOT SPOT MONITOR-1 MONITOR-2 MONITOR-3 MONITOR-4 ON ON ON ON (ALARM DATA) CAM DATE TIME 1/ 1 ITEM (SECURITY LOCK SET) OPERATION CODE LOCK NEXT 1111 ON 1111 ON SECURITY CODE ---- SETUP CODE LOCK (CONTROL SET) DATA SPEED ALARM SEND RS232C/RS485 NEXT (CAMERA CONTROL SET) IN 01:OFF 02:OFF 03:OFF 04:OFF 05:OFF 06:OFF 07:OFF 08:OFF IN 09:OFF 10:OFF 11:OFF 12:OFF 13:OFF 14:OFF 15:OFF 16:OFF 19200 ON RS232C SANYO * NEXT CAMERA CONTROL (*:NEXT) English 31 MENU FLOWCHART AND MENU OPERATIONS Menu operations Press the MENU button. MENU (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) ▣▣▣▣▣▣▣▣ The MAIN MENU screen will be displayed. Note: The MAIN MENU screen will appear on the main monitor and on spot monitor 1. x Status of indicators when a menu screen is displayed · While the MENU indicator is flashing When the MENU button is pressed, the menu screen will be terminated. MENU · While the NEXT indicator is flashing NEXT When the NEXT button is pressed, a sub-menu screen (the next level) will appear. · While the BACK indicator is flashing BACK When the BACK button is pressed, the previous menu screen will be restored. MENU (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) ▣▣▣▣▣▣▣▣ NEXT (CLOCK SET) 01-01-2001 MON 00:00:00 TIMER DAY LIGHT ON ▣ OFF NEXT (TIMER TIMER-A T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 SET) TIMER-B T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 A A A A BACK (*:NEXT) BACK SEQUENCE PROGRAM REC MASK MOTION SENSOR MENU 32 English LANGUAGE SETTING Language setting (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) ▣▣▣▣▣▣▣▣ (LANGUAGE) ENGLISH FRANCAIS ESPANOL The multiplexer menu screens can be displayed in several languages (English, French or Spanish). The default language setting is English.

LANGUAGE screen display 1 MENU Press the MENU button. The MAIN MENU screen will be displayed. (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) ▣▣▣▣▣▣▣▣ 2 NEXT Use the cursor button to select "LANGUAGE" and then press the NEXT button.



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The LANGUAGE screen will be displayed. (LANGUAGE) ENGLISH FRANCAIS ESPANOL 3 MENU Use the cursor button to select the language, and then press the MENU button.

The selected language will be set. The camera images will be displayed. (LANGUAGE) ENGLISH FRANCAIS ESPANOL 4 Press the MENU button. English 33 CLOCK SET SETTINGS (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) ▣▣▣▣▣▣▣▣ Clock setting (CLOCK SET) 01-01-2001 MON 00:00:00 TIMER DAY LIGHT (*:NEXT) ON ON ▣▣ Timer setting Set the timer when using the timer function. (TIMER TIMER-A T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 SET) TIMER-B T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 A A A A SEQUENCE PROGRAM REC MASK MOTION SENSOR Daylight saving setting (DAY LIGHT SET) ON OFF WEEK MON TIME 1ST-SUN 04 02:00 LST-SUN 10 02:00 The CLOCK SET menu is used to set the time.

It is also used to set a timer when using the timer function, and to make daylight saving settings. 34 English CLOCK SET-1 CLOCK SET SETTINGS Clock settings (default setting: 01-01-2001 MON 00:00:00) Be sure to set the clock to the correct time. The correct time must be set in order for the timer setting and summer time setting functions to work correctly. Example: Setting the clock to October 15, 2002 at 3:20 PM 1 MENU Press the MENU button. The MAIN MENU screen will be displayed. (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) ▣▣▣▣▣▣▣▣ · Press the setting buttons to set the year (2002), then press the cursor button. (CLOCK SET) 10-15-2002 TUE 00:00:00 · Press the setting buttons to set the hours (15), then press the cursor button. (CLOCK SET) 10-15-2002 TUE 15:00:00 · Press the setting buttons to set the minutes (20), then press the cursor button. The time setting is finished. (CLOCK SET) 10-15-2002 TUE 15:20:00 2 NEXT Use the cursor button to select "CLOCK SET", and then press the NEXT button.

The CLOCK SET screen will be displayed. (CLOCK SET) 01-01-2001 MON 00:00:00 TIMER DAY LIGHT ON * OFF Note: The day of the week will be automatically set according to the date entered. To display date, time and camera number While the camera image is displayed, press the BACK button repeatedly. The following actions will occur: Date and time 10-15-2002 15 : 20 : 00 BACK 3 + Use the cursor button to select "01", and then use the setting buttons to set the date. (CLOCK SET) 01-01-2001 MON 00:00:00 TIMER DAY LIGHT ON * OFF Camera number 01 Date, time and camera number Cancel display 10-15-2002 15 : 20 : 00 01 10-15-2002 15:20:00 01 Time is displayed. 4 · Press the setting buttons to set the + month (10), then press the cursor button. (CLOCK SET) 10-01-2001 MON 00:00:00 Setting the time (minutes and seconds) to 00 during monitoring Press the MENU RESET button. The minutes and seconds will then be reset to 00. Note: These operations must only be carried out while camera images are being displayed. If you press these buttons while a menu screen is being displayed, the setting values will be reset to their defaults.

CLOCK SET-1 · Press the setting buttons to set the day (15), then press the cursor button. (CLOCK SET) 10-15-2001 MON 00:00:00 English 35 CLOCK SET-2 CLOCK SET SETTINGS TIMER settings (default setting: 00:00) The timer function uses two separate timer settings (TIMER-A and TIMER-B), and each timer setting can be made in four time zones (example: midnight, morning, daytime, evening). For example, TIMER-A time zones can be set for automatic screen switching and TIMER-B time zones can be set for gray pattern cover on camera images. For these settings, set Example 2 consecutively with Example 1. Example 1: Set TIMER-A and TIMER-B time zones as follows (TIMER-A settings) T-1 4 a.

m. (4:00) T-2 6 a.m. (6:30) T-3 12:30 p.m.
(12:30) T-4 6 p.m. (18:00) (TIMER-B settings) T-1 6 a.m. (6:00) T-2 8 a.m. (8:00) T-3 2:30 p.m. (14:30) T-4 8 p.m.

(20:00) 1 Operable functions during the period set by the timer Each of the following menu settings is required to operate these timer functions. After you have made the menu settings, be sure to make the timer settings. MENU Press the MENU button, use the cursor button to select CLOCK SET and then press the NEXT button. 2 Use the cursor button to select TIMER "OFF". (CLOCK SET) 10-15-2001 MON 15:20:00 TIMER DAY LIGHT OFF OFF · To change camera images into · automatic switching screens. Set "SEQUENCE" on DISPLAY SET screen To cover camera images with gray pattern. Set "MASK" on DISPLAY SET screen (DISPLAY SET) TITLE DOWN ▣ MULTI SCREEN NORMAL SEQUENCE INDIV.* MASK ON * MAINSPOT1 OFF DIGITAL CONNECTION OFF COLOR LEVEL AUTO (*:NEXT) 3 + NEXT · To record camera images on a video unit Set "PROGRAM REC" on VCR SET screen Press the setting buttons to select "ON", and then press the NEXT button. The TIMER SET screen will be displayed. (VCR SET) RECORDER REC.

SPEED ALARM REC.SPEED SW.IN EDGE REC.PICTURE PROGRAM REC. (*:NEXT) TLS 2H 2H ñ 01 ONLY * (CLOCK SET) 10-15-2001 MON 15:20:00 TIMER DAY LIGHT ON * OFF · To detect an alarm input in a camera image Set "MOTION SENSOR" on ALARM SET screen (ALARM SET) ALARM ACTIVE REC.

MOTION SENSOR VIDEO LOSS OFF OFF ON OFF 4 * + Use the cursor button to select TIMER-A "T-1 00:" (hours), and then use the setting buttons to set the hours to "4". (TIMER TIMER-A T-1 04:00 T-2 00:00 T-3 00:00 T-4 00:00 SET) TIMER-B T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 (*:NEXT) CLOCK SET-2 36 English CLOCK SET-3 CLOCK SET SETTINGS 5 + Use the cursor button to select TIMER-A "T-1 :00" (minutes), and then use the setting buttons to set the minutes to "00". (TIMER TIMER-A T-1 04:00 T-2 00:00 T-3 00:00 T-4 00:00 SET) TIMER-B T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 Example 2: Set the timer operation as follows To set TIMER-A time zones to automatic switching screen and monitor mask. To set TIMER-B timer zones to program recording and motion sensor. 1 6 + Use the cursor button to select TIMER-A "T-2 00:" (hours), and then use the setting buttons to set the hours to "6".

(TIMER TIMER-A T-1 04:00 T-2 06:00 T-3 00:00 T-4 00:00 SET) TIMER-B T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 + Use the cursor button to select SEQUENCE "A", and then use the setting buttons to set "A". (TIMER-A setting) SEQUENCE PROGRAM REC MASK MOTION SENSOR A A A 2 + 7 + Use the cursor button to select TIMER-A "T-2 00" (minutes), and then use the setting buttons to set the minutes to "30".



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(TIMER TIMER-A T-1 04:00 T-2 06:30 T-3 00:00 T-4 00:00 SET) TIMER-B T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 Use the cursor button to select PROGRAM REC "A", and then use the setting buttons to set "B". (TIMER-B setting) SEQUENCE PROGRAM REC MASK MOTION SENSOR A B A A 3 + Use the cursor button to select MASK "A", and then use the setting buttons to set "A". SEQUENCE PROGRAM REC MASK MOTION SENSOR A B A A Repeat steps 4 and 5 to set the hours and minutes for T-3 and T-4 also. Use the same procedure to set the hours and minutes for T-1, T-2, T-3 and T-4. (TIMER TIMER-A T-1 04:00 T-2 06:30 T-3 12:30 T-4 18:00 SET) TIMER-B T-1 06:00 T-2 08:00 T-3 14:30 T-4 20:00 8 4 + + Use the cursor button to select MOTION SENSOR "A", and then use the setting buttons to set "B". SEQUENCE PROGRAM REC MASK MOTION SENSOR A B A A Note: · Initial settings T-1 to T-4 are "00:00" In this case, the timer will operate at all times set by T-1. · The time divisions of the timer settings (T-1 to T-4) are continuous settings in one cycle from start time to end time. For instance, in the case of T-1 (4:00) and T-2 (6:30), the domain of timer T-1 is from 4 a.

m. until 6:30 a.m. · If two more timers are set to the same starting time, the timers will operate together for the same period of time. · When setting the timers, a setting cannot be entered if, for instance, T-3 as been set to earlier than T-1. If this happens, re-enter the correct settings. 5 BACK Press the BACK button. The setting will then be completed and the display will return to the CLOCK SET screen. Press the BACK button once more to return to the MAIN MENU screen. CLOCK SET-3 English 37 CLOCK SET-4 CLOCK SET SETTINGS DAY LIGHT setting (default setting: OFF) You can set the starting time and ending time for daylight.

When daylight is set, the time is automatically advanced by one hour during the summer period. 4 · Press the setting buttons to set the + WEEK (2ND), then press the cursor button. Menu: 1ST, 2ND, 3RD, 4TH or LST (first, second, third, fourth or last) To make changes to the settings Example: Setting the daylight from the second Tuesday of May at 3:00 AM, to the fourth Tuesday of September at 3:00 AM. (DAY LIGHT SET) ON OFF WEEK MON TIME 2ND-SUN 04 02:00 LST-SUN 10 02:00 · Press the setting buttons to set the WEEK (TUE), then press the cursor button. Menu: SUN, MON, TUE, WED, THU, FRI or SAT (DAY LIGHT SET) 1 MENU Press the MENU button, use the cursor button to select CLOCK SET and then press the NEXT button.

ON OFF WEEK MON TIME 2ND-TUE 04 02:00 LST-SUN 10 02:00 · Press the setting buttons to set the MON (05), then press the cursor button. Menu: 1, 2, 3, 4 ...

. 11, 12 (for January, February, March December) 2 Use the cursor button to select DAY LIGHT "OFF". (CLOCK SET) 10-15-2001 MON 15:30:00 TIMER DAY LIGHT OFF OFF (DAY LIGHT SET) ON OFF WEEK MON TIME 2ND-TUE 05 02:00 LST-SUN 10 02:00 · Press the setting buttons to set the TIME (03), then press the cursor button. (DAY LIGHT SET) ON OFF WEEK MON TIME 2ND-TUE 05 03:00 LST-SUN 10 02:00 3 + NEXT Press the setting buttons to change the setting to ON, and then press the NEXT button. The DAY LIGHT SET screen will be displayed.

(CLOCK SET) 10-15-2001 MON 15:30:00 TIMER DAY LIGHT OFF ON * 5 + Following the same procedure as above, set when the time is changed back from daylight to standard time (the OFF settings). (DAY LIGHT SET) ON OFF WEEK MON TIME 2ND-TUE 05 03:00 4TH-TUE 09 03:00 (*:NEXT) 6 Press the MENU button. The display will return to the normal screen. CLOCK SET-4 38 English DISPLAY SET SETTINGS (MAIN MENU) 1 2 3 4 5 6 7 8 LANGUAGE CLOCK SET DISPLAY SET VCR SET ALARM SET SECURITY SET CONTROL SET ALARM DATA (*:NEXT) □□□□□□□□ Title setting and display position setting (See page 40.) Enter a title. CAMERA NO.01 CAMDESK001 Set the title display position. CAMERA NO.01 -----001 CAMERA NO.01 CAMDESK001 Camera image sorting (See page 41.)

) (POSITION SET) MULTI16 01 05 09 13 02 06 10 14 03 07 11 15 04 08 12 16 (DISPLAY SET) TITLE DOWN □ MULTI SCREEN CHANGE □ SEQUENCE INDIV. □ MASK ON □ MAINSPOT1 OFF DIGITAL CONNECTION OFF COLOR LEVEL AUTO (*:NEXT) Automatic switching time setting (See page 43.)

All camera images switch after the set period of time. Select the camera to be automatically switched. The images will switch after the set period of time. (MAIN MON.SEQ T-4 IN 01:ON 02:ON 03:ON 04:ON 05:ON 06:ON 07:ON 08:ON SET) IN 09:ON 10:ON 11:ON 12:ON 13:ON 14:ON 15:ON 16:ON Use the timer function to set automatic switching display. (See page 45.) When the timer function is set, the camera images can be automatically switched during the set time zone. If set to 5 seconds, the images switch automatically after 5 seconds.

Select the cameras. The selected camera images switch automatically. To mask the monitor by using timer functions (See page 47.) When timer functions are set, camera images can be covered with a gray pattern at the set time zones. Monitor mask setting (See page 47.) IN 01:OFF 02:OFF 03:OFF 04:OFF 05:ON

06:OFF 07:OFF 08:OFF (MASK SET) T-1 IN 09:OFF 10:ON 11:OFF 12:OFF 13:OFF 14:OFF 15:ON 16:OFF Select the camera that is not to be displayed. Images from the selected camera are not displayed. Timer setting (See page 36.) (CLOCK SET) 01-01-2002 TUE 00:00:00 TIMER DAY LIGHT ON ON □ * MAIN SPOT1 setting (See page 49.) Main monitor images are displayed on spot monitor 1.

Image output at the Image output at the main monitor connector spot monitor 1 connector (*:NEXT) (TIMER TIMER-A T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 SET) TIMER-B T-1 00:00 T-2 00:00 T-3 00:00 T-4 00:00 A A A A SEQUENCE PROGRAM REC MASK MOTION SENSOR DIGITAL CONNECTION settings (See page 50.) Specify a main unit and sub-units when several of these unit are connected. (PROGRAM REC.SET) (PROGRAM REC SET) T-1 (PROGRAM REC SET) TIMER-1IN IN (PROGRAM REC SET) TIMER-1 IN IN 01:ON 09:ON TIMER-1 IN IN 01:ON 09:ON 02:ON 10:ON IN IN 01:ON 09:ON 02:ON 10:ON 03:ON 11:ON 01:ON 09:ON 02:ON 10:ON 03:ON 11:ON 04:ON 12:ON 02:ON 10:ON 03:ON 11:ON 04:ON 12:ON 05:ON 13:ON 03:ON 11:ON 04:ON 12:ON 05:ON 13:ON 05:ON 14:ON 04:ON 12:ON 05:ON 13:ON 05:ON 14:ON 07:ON 15:ON 05:ON 13:ON 05:ON 14:ON 07:ON 15:ON 08:ON 16:ON 05:ON 14:ON 07:ON 15:ON 08:ON 16:ON 08:ON 16:ON Specify as main unit Specify as sub-unit 1 Specify as sub-unit 2 Specify as sub-unit 3 If connected to a digital video recorder, make the DVR settings. Connect to the digital video recorder. COLOR LEVEL settings (See page 51.) Adjust the monitor screen color level.



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