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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI DX-TL4516E. You'll find the answers to all your questions on the MITSUBISHI DX-TL4516E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MITSUBISHI DX-TL4516E  
User guide MITSUBISHI DX-TL4516E  
Operating instructions MITSUBISHI DX-TL4516E  
Instructions for use MITSUBISHI DX-TL4516E  
Instruction manual MITSUBISHI DX-TL4516E



DIGITAL RECORDER  
USER'S MANUAL

MODEL  
**DX-TL4516E**



THIS INSTRUCTION MANUAL IS IMPORTANT TO YOU. PLEASE READ IT BEFORE USING YOUR DIGITAL RECORDER.

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### Manual abstract:

Confirm that more than one minute have passed since the power cord and the connecting cords were disconnected, then move this unit. Make sure to take the disc out and close the disc loading slot. **UNPLUG THE POWER CORD DURING A LONG ABSENCE** Turn off the power and unplug the power cord during a long absence. **MAINTAIN GOOD VENTILATION** Do not obstruct the many ventilation holes on the unit. For maximum ventilation, leave some space around the unit and place the unit on a hard level surface only, and ensure it is not covered during use. Heavy objects should never be placed on the unit. **WHEN NOT IN USE** When not in use, always eject the disc and turn OFF the MAIN switch. **CABINET CARE** Never use petroleum-based cleaners. Clean with a soft cloth moistened with soap and water and wipe dry. PVC cables or leads should not be left in contact with the cabinet surface for long periods.

**INSTALLATION LOCATION** For excellent performance and lasting reliability install in a location that is: 1. Well ventilated, out of direct sunlight and away from direct heat. 2. A solid vibration-free surface. 3.

Free from high humidity, excessive dust and away from magnetic fields. 4. Please ensure that the ventilation fan located on the unit's back panel is not blocked. **UNSUITABLE LOCATIONS** Placing the unit in the following places might shorten the product life: · Extremely cold places, such as refrigerated warehouses and ice houses · Places where excessive hydrogen sulfide is likely to be generated, such as hot-springs areas · Places or locations with salt air environment. **THIS EQUIPMENT DOES NOT PROVIDE CONNECTION FOR USED WITH OUTDOOR OR CABLE DISTRIBUTION SYSTEMS.**

**NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS. DO NOT PLACE HEAVY OBJECT ON THIS UNIT.**

**DO NOT STEP ONTO THIS UNIT. DO NOT PLACE ANY OBJECTS IN FRONT OF THE DISC LOADING SLOT.** The unit may drop or fall by losing its balance. It may cause injury or failure of the unit. **WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. THIS APPARATUS MUST BE GROUNDED.** **MAINS LEAD CONNECTION** The mains lead on this Unit is fitted with a non-rewireable mains plug, incorporating a 5A fuse. If you need to replace the fuse, use a 5A fuse approved by BSI or ASTA to BS 1362, ensuring you refit the fuse cover.

If the mains plug is not suitable for the sockets in your home, and you require to remove the plug, remove the fuse, cut off the plug then dispose of the plug immediately, to avoid a possible electric shock hazard. To refit a new plug, follow these instructions; Green-and-yellow: Earth, Blue: Neutral and Brown: Live. As the colours in the mains lead of this Unit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. ·

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured green or green-and-yellow. · The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

· The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. This unit complies with the requirements of the EC Directive 89/336/EEC, "EMC Directive" and 73/23/EEC, "Low Voltage Directive", as amended by Directive 93/68/EEC. The requirements for the susceptibility according to EN 55024 and the requirements for interference according to EN 55022 are observed for the operation on residential areas, business, light industrial premises and in small scale enterprises, inside as well as outside of the building. All places of operation are characterised by their connection to the public low voltage power supply system. This unit is manufactured in accordance with EN 60950.

2 Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste. Please, dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic product. Please, help us to conserve the environment we live in! Notice about construction of the surveillance system using this unit · This unit can be controlled by the external devices via RS-232C terminal or LAN terminal.

This unit can also be used to control external devices via external terminal, RS-422/485 terminal, or RS-232C terminal. Owing to these functions, this unit flexibly applies to the high grade security system, but the whole surveillance system may be affected by the malfunction of this unit or the external devices depending on the setting contents of this unit, the connection with the external devices, or combination between this unit and the external devices. · When configuring a surveillance system using this unit, it is recommended to confirm first that this unit operates normally with the other devices connected. · It is recommended to copy or back up the important recorded contents. · Damages rising out of any operational error of the surveillance system or loss of the recorded data or any other damages because of any user malfunction of this unit are not covered.

· Do not use the notification function of this unit for making critical judgement nor any purpose related to human lives. · When this unit cannot recognize the external device which is being used for recording due to the power failure, decreased voltage, or other failures, the recording point may be moved to the internal HDD of this unit or the other external HDD. To prevent occurrence of such problem, it is recommended to use uninterruptible power supply. There may be cases when the unit's built-in motion detection function does not operate properly due to external condition, video input signal, or other factors. The user will not be indemnified for problems (e.g., recording failure or playback failure) that occur with either the unit or a connected device during operation. It is recommended to back up the important recordings regularly as a precaution against possible breakdowns and accidents. Recordable time and product warranty Continuous recordable time and the estimated time displayed on the menu screen indicate the continuous time of recording operation of this unit.

They indicate the period neither for product warranty nor that for reliability of used parts.

· · · This unit uses a built-in HDD, which is a precision device. Handle this unit with sufficient care. Do not subject this unit to vibrations or shocks. This may cause trouble specially when the power of the unit is turned on or when the HDD is being accessed, and sufficient care is required. Do not disconnect the power plug while the power of the unit is turned on or while recording or playing.



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For early detection of faults, we recommend that you request inspection once a year. The HDD and cooling fan are not permanent items and will need replacing with time. When operated in an ambient temperature of 25 °C, it is recommended that both of the HDD and fan are replaced every 30,000 hours. (This figure is only a guide, and should not be taken as a guaranteed life-span of the products. Use the <Elapsed Operating Time> (System Menu Service Info) as a guide to perform checkups.

) Beginning 3 ENGLISH Note: This symbol mark is for EU countries only. This symbol mark is according to the directive 2002/96/EC Article 10 Information for users and Annex IV. Caution and care (continued) DISCLAIMER In any event, Mitsubishi assumes no responsibility or reliability for the following: 1. Disassembly, repair, or alteration of this unit by user or installer. 2.

Failure or breakdown in or damage to this unit resulting from misuse or careless handling by user or installer. 3. Inconvenience or damages arising out of inability to display or record pictures due to any reason or cause other than breakdown or failure in this unit. 4. Failure in this unit due to combination with other equipment manufactured by a third party or inconvenience or damages resulting from such failure.

5. Inconvenience, damages, or claims arising out of breakdown in this unit or loss of recorded video data due to replacement of the built-in HDD by user or installer. 6. Inconvenience or damages arising out of breakdown in this unit or inability to display or record pictures due to natural disaster including earthquake and storm. 7. Inconvenience, damages, or claims arising out of breakdown in this unit or loss of recorded video data due to impact or vibration to the built-in HDD or an environmental factor such as temperature at the installation site. 8. Demand for damages or other claim of infringement of privacy if the pictures monitored or recorded by user become public or are used for any purpose other than surveillance for whatever reason. INSTALLATION LOCATION AND HANDLING · Place this unit horizontally and in a stable place. If this unit is not placed correctly and used in an unstable place, the unit may be damaged such as removal of the DVD/CD disc.

· Do not place this unit close to other electronic or magnetic equipment. This will avoid video and audio distortion. · When a monitor and this unit are placed vertically, the pictures may be distorted or DVD/CD disc may not be ejected. · Do not let stick your hands into the disc loading slot. You may get your hand caught in the slot and may get injured. If you get your hand caught, do not get out of the slot by force. Contact your dealer after turning off the power and disconnecting the plug. DVD/CD DISC · Do not use the disc cracked, deformed or repaired with adhesive. The disc may fly into pieces and cause injury. · Do not touch the playback surface when holding the disc.

· When dew condensation occurs on the disc, wipe the surface off before use. · Dirt such as fingerprints or dust causes the deterioration of the picture quality and audio quality. Gently wipe the DVD/CD disc from the center to the outside with a soft cloth. · When the disc is very dirty, soak a soft cloth with water and screw water of it, wipe off the dirt lightly, then wipe with a dry cloth. · Do not use solvent such as benzine and thinner, a record cleaner, and static-stopper. They may damage the disc. · Do not use the disc described below. They may damage the disc itself or this unit. Discs on which a piece of paper or sticker is put, or a disc damaged. Discs which the label is peeled or a disc with oozing.

Discs cracked, deformed, or repaired with adhesive. · Store the disc in the specified casing, avoiding the following places. Places where it will be subjected to direct sunlight. Places with excessive dust. Places where it will be subjected to high temperatures or high humidity. · DVD movie (cinema) or personal recorded picture cannot be played back on this unit. Only the pictures recorded on this unit can be played back. · Do not use the disc which has been used on the personal computer, failed to be copied, or stopped during copying due to the power failure because they may cause malfunction of the unit. · Although you can copy the data on DVD/CD with this unit and playback that data on the personal computer using the supplied application software, not all the personal computers or DVD/CD drives are ensured for proper playback of such data. MAINTENANCE OF THE LENS FOR RECORDING/PLAYBACK (LASER PICKUP) · When any dust adheres on the lens for recording/playback, the picture may be distorted or the audio may skip.

Also normal recording or playback may not work. Ask your dealer how to correct this problem. Be careful, do not use the commercial lens cleaning disc,

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.. 23 Communications by Web Browser ...

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. 24 Communications by Web Browser ....

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.....  
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*.. 29 Recorder Title & Camera Titles .....*

.....  
.....  
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*... 30 E-mail Setup .....*

.....  
.....  
.....  
.....  
.....  
.....  
.....

*... 30 Access Mode Settings .....*

.....  
.....  
.....

*... 32 Clock Setup ..*

.....  
.....  
.....  
.....  
.....

*.... 32 Logout .*

.....  
.....  
.....  
.....  
.....

*... 33 Change Login User .....*

.....  
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.....  
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*..... 33 Warnings and CALL OUT output...*

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Article 7 (Confidentiality) User shall keep secret the details of Licensed Software and pertinent documents provided hereunder and the contents of this Agreement that are unknown publicly and shall not disclose or leak such details and contents to any third party without consent of Licensor. Article 8 (Termination) In case of either of the following events, Licensor may terminate this Agreement immediately and may claim against User for resulting damages it suffers. (1) User's violation of any provision of this Agreement. (2) Occurrence of filing against User for seizure, provisional injunction, or other forcible execution. Article 9 (Disposal of Licensed Software) If this Agreement is terminated pursuant to the preceding article, User shall dispose of Licensed Software, pertinent documents, and any copies thereof in its possession within two weeks after termination hereof and shall provide Licensor with a written certification of such disposal.

Article 10 (Update of Licensed Software) If User updates Licensed Software using an update CD supplied or sold by Licensor or any other means, this Agreement shall remain applicable to the updated version of such Licensed Software, unless Licensor provides additional separate terms and conditions for using the updated version of such Licensed Software. Article 11 (Miscellaneous) 1. If any provision of this Agreement is determined to be invalid by law, the remaining provisions hereof shall remain valid and enforceable. 2. If any doubt arises in relation to matters not defined herein or interpretation hereof, Licensor and User shall discuss such doubt and attain a solution in a faithful manner. Beginning 7 How to set the menus Setting the menus The operations of this unit can be set via a menu displayed on OUTPUT A monitor. You can select and set the menu by using the buttons on the front panel or using a USB mouse connected to the unit. When using the front panel buttons, the numbers 1-16 (camera number buttons) and letters A to E (SPLIT screen buttons) represent the GUI button of the menu screen. The menu can only be displayed through OUTPUT A monitor. The menu cannot be displayed through OUTPUT B monitor.

Setting the menu using a mouse Wheel Left button Right button Use the standard USB mouse which has left and right buttons as illustrated to the left. Note that you cannot use the mouse with this unit depending on the mouse connected. step1. Mouse Use the left and right mouse buttons to set the menu. · Click the left button to open the menu or select a needed item, etc. · Click the right button to set the active area for motion detection function. · The wheel on a mouse does not work with this unit. Setting the menu using the front panel buttons step1. Use the SET UP button, camera number buttons, and the SPLIT screen buttons (A to E) to set the menu. · Press the SET UP button to display the menu screen. · Press the camera number buttons (1 to 16) and the SPLIT screen buttons (A to E) to open each menu or to select the needed item. 8 step1. Press the SET UP button or click the left button on the mouse to display a menu. · The <User Menu> appears. · To open other menu, press the D button or leftclick on "Next . " When you use a mouse, click the following area to operate.



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E Exit Click this area User Menu 1 Search 2 5 Copy Protect Data 3 6 Information PTZ Control D E 100 000 000 Next Exit Closing a menu screen step1. Press the E button or left-click on the "Exit" to close the menu. You cannot close the menu by pressing the SET UP button on the unit. Setup Menu 1 4 Recording System 2 5 Timer Menu Data 3 Motion Det D E 200 000 000 Next Exit Selecting an item step1. Press the front panel button of the needed item number or left click on the needed item. The selected item menu opens. Select an item and press the number, or click on the menu to open the item. E 7 6 5 4 Exit Reset to Factory Setting On Screen Display Setting Multiplexer Setting Password Setting 200 000 3 Motion Det D E Next Exit Rear Terminal Setting 3 Setup Menu Menu Language Selection 2 1 Recording Timer 2 Time/Date Setting 1 4 System 5 Menu Data How to set the menus 9 ENGLISH Displaying a menu screen How to set the menus (continued) Inputting numbers Number input area Time Date Setting Time Date Setting 01 - 01 - 2006 00 : 00 : 00 14 Set time and date. Day Light Saving Setting A Auto D Set > 16 241 000 000 ? Using the front buttons of the unit: step1. Press the camera number buttons (0 to 9) to input and use that number. The number displayed in red can be changed. step2. To move to the next input area, press the 16 button. To go back to the previous area, press the 14 button.

step1. Using a mouse: Left-click on the number in red until the needed number appears. To change another area, left-click on the needed area or left-click or . E Return Setting parameters step1. Press the A button or left-click on the parameter box until the item to be set appears. For some items, more detailed setting is required. In this case, an item such as "D(Set >)" is displayed. If necessary, press the D button or left-click on the "Set >" to set more details. Time Date Setting Time Date Setting 01 - 01 - 2006 00 : 00 : 00 14 Set time and date. Day Light Saving Setting A Auto D 16 241 000 000 When you close the menu, press the E button or left click on "Return" or "Exit."

" You cannot close the menu by pressing the SET UP button on the unit. ? Set > E Return Setting or selecting area 10 Up button Motion Search (Main - Normal) Camera Select Search Start Position 01 - 01 - 2006 00: 00 : 00 A 1 11 116 000 000 15 Menu address Help button Down button Left button Right button ? 13 14 Oldest 16 Setup date search starts from. Motion Detection Settings Same as Recording Setting B C Next > Motion A 12 same D Search E Return Some symbols appear in the menu screens. The meanings are as follows. (Help) (Left) (Right) (Up) (Down) Menu address When you press the HELP button or click this symbol, the detailed information on the menu appears. When you press the 14 button or click this symbol, the item to be set shifts to left. When you press the 16 button or click this symbol, the item to be set shifts to right. When you press the 11 button or click this symbol, the value of selected item increases. When you press the 15 button or click this symbol, the value of selected item decreases. A unique number for each menu page.

You can go directly to each menu page by inputting the menu address number using the front buttons of the unit. For example, when opening the <Motion Search> menu, press the SET UP button and then press the camera number button in the order of 1, 6. How to set the menus 11 ENGLISH Symbols in the menus Setting the time and date Time/Date Setting This item is used to set the present date, time, and auto daylight saving. Auto daylight saving function is used to automatically gain the clock of the unit an hour for the specified time period. Start/end time of the auto daylight savings can be checked and if needed, changed. Before you start recording, accurately set the present date and time. The recording and playback are not performed properly when the clock of this unit does not run. Check that the clock of this unit is running before operation. Setup Menu 4 System steps 1, 2 1 Time/Date Setting step 3 D Day Light Saving Setting step1. Set the present month, date, year, hour, minute, and second.

Select the desired setting for daylight saving. Auto: Automatically adjust forward or back an hour for the time period set in the <Day Light Saving Setting>. Off: Auto daylight saving function is not used. Date and time of Auto Day Light Saving Setting can be adjusted as needed. step2. step3. The time is indicated using the 24-hour system. T h i s u n i t u s e s 4 d i g i t s t o d i s p l a y t h e y e a r . T h e available display range is 37 years between 1/1/2001 to 31/12/2037. The unit is also equipped with a function to automatically calculate leap years.

The year returns to 2001 after 31/12/2037. 12 Using the basic multiplexer functions This function is used to activate multiplexer functions using the buttons on the front panel. DIGITAL ZOOM button Camera number buttons 4. DIGITAL ZOOM button Pressing this button in single screen mode displays the screen at 100%. At this time, the magnification centre point (X) appears.

Pressing the button again switches the magnification to 200%, and then 400%. By pressing the MOVE buttons, the centre point moves vertically or horizontally. When the DIGITAL ZOOM button is pressed, camera number buttons 11, 14, 15, and 16 move the "X" in the screen. SPLIT screen buttons SEQUENCE button OUTPUT A/B button Move buttons Multiplexer buttons 1. Camera number buttons (1 to 16) Displays the picture supplied from the cameras connected to CAMERA IN terminals 1 to 16 on the rear panel in the single screen display.

Pictures can be displayed even if the camera is not set to record. 2. SPLIT screen buttons Each time the button is pressed, displays the split screen in the following order. SPLIT4 ( ) button : SPLIT 4a SPLIT 4b SPLIT 4c SPLIT 4d SPLIT 4a ... SPLIT9 ( ) button : SPLIT 9a SPLIT 9b SPLIT 9a ... SPLIT10 ( ) button : SPLIT 10a SPLIT 10b SPLIT 10a ... SPLIT13 ( ) button : SPLIT 13a SPLIT 13b SPLIT 13a ... SPLIT16 ( ) button : SPLIT 16 screen 3. SEQUENCE button Displays the sequential screen in the split screen or the single screen display. Make the detailed settings of this display in the <Multiplexer Setting> (Setup Menu System). Sequential display does not appear during playback. The sequential display is cancelled when you press the SEQUENCE button again or display a different type of split screen or single screen. Basic operations 13 ENGLISH Basic multiplexer functions Pressing the OUTPUT A/B button on the front panel switches the multiplexer video output. When OUTPUT A is selected, the button light indicator is off.



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When OUTPUT B is selected, the button light indicator is on, and camera number buttons, SPLIT screen buttons, and SEQUENCE button are operated for the monitor screen connected to the OUTPUT B connector. Pressing the OUTPUT A/B button again switches the multiplexer output to OUTPUT A.

Controlling the camera This function is used to control the cameras connected via RS-232C or RS-422/485 terminal. PTZ control using the front panel buttons step1. PTZ control using the menu User Menu 6 PTZ Control step step2. Press the camera number button of the PTZ camera number to be controlled and display the picture in the single screen display. Press the PTZ button. · The unit switches to PTZ mode and the button lights up. "PTZ" appears on the LCD display on the front panel during PTZ mode. 01-01-2006 00:00:00 PTZ · The camera number to be controlled appears on the LCD display on the front panel.

1 1 Go to PTZ Control step 2 Zoom, iris, focus adjustment, AutoPan step 3 Preset step 01-01-2006 00:00:00 PTZ CAM1 step3. 4 2 Select PTZ Camera step1. Pan or tilt the PTZ camera connected. · Click the gray area by using the mouse to adjust the camera angle. adjusts the camera angle in the upward direction adjusts the camera angle in the leftward direction adjusts the camera angle in the rightward direction adjusts the camera angle in the downward direction step2.

step3. Adjust zoom, iris, and focus. And activate auto pan. Preset the viewing points 1 to 16. · The preset points are registered to the PTZ camera for auto pan function.

Switch the camera number to be controlled. · The camera number to be controlled appears on the LCD display on the front panel. 01-01-2006 00:00:00 PTZ

CAM1 step4. Control the camera. Tilt: Press the TILT button to tilt the camera in button to the upward direction. Press the TILT tilt the camera in the downward direction. Pan: Turn the SHUTTLE ring to the right to pan the camera in the rightward direction. Turn the SHUTTLE ring to the left to pan the camera in the leftward direction. Camera zoom: Press the CAMERA ZOOM button and then turn the JOG dial to the left (wide) or right (tele) to adjust the camera zoom. Focus: Press the FOCUS button and then turn the JOG dial to the left (far) or right (near) to adjust the focus of a camera.

Iris: Press the IRIS button and then turn the JOG dial to the left (close) or right (open) to adjust the iris of a camera. Preset: Press the PRESET button and then press the camera number buttons within 3 seconds to preset the viewing points. Up to 16 points can be set. Auto pan: Press the AUTO PAN button to activate the auto pan function of the camera. During PTZ operation using front panel buttons, POWER button and functions related to playback do not work.

Furthermore, menus cannot be displayed. <PTZ Control> can be set using the mouse only. You cannot set it using front panel buttons. 14 Recording the picture manually This function is to setup the recording parameters of recording setting pattern A to start recording manually. Ensure all the cameras are connected and time and date has been set correctly.

Before you start recording, check the repeat recording settings in the <Data Management Setting for Main Memory> (System Menu Memory) first, and then make the recording settings. Make the manual recording settings on the <Set Recording Pattern A (Normal/Timer)>. <Set Recording Pattern A (Normal/Timer)> can be used for manual or timer recording. <Set Recording Pattern B (Timer)> to <Set Recording Pattern D (Timer)> are used for timer recording only. Settings here are for manual recording only.

For timer recording, settings must be made on the <Timer> menu. Setup Menu 1 Recording 1 Set Recording Pattern A (Normal/Timer) step step1. Execute camera check. · The unit automatically detects the cameras with video signal at their input when you select "Execute." The detected cameras are used in the Auto and Easy settings calculation in step 2.

After executing the camera check, the recording settings are made only for the camera numbers with the video signal input when using auto or easy setting. step2. 1 1 Camera Check step 2 2 + D Recording Setting A-Normal(Auto) D Recording Setting A-Normal 2 + D Recording Setting A-Normal(Easy) D Recording Setting A-Normal 2 + D Recording Setting A-Normal(Manual) D Recording Setting A-Normal Set the normal recording menu. Auto: Automatically sets the picture grade and the recording rate by setting the recording cycle and the recording hour per day. Set the desired settings and then select "Execute." · The preview screen appears automatically when the auto setting is executed. Easy: Sets the frame or field recording, recording rate, and picture grade for normal recording to the same settings for all the cameras. When the recording rate is set to " " for all the camera numbers, normal recording does not perform. Set the desired settings and then select "Execute." · The preview screen appears automatically when the easy setting is executed.

Manual: Sets per camera, the frame or field recording, recording rate, and picture grade for normal recording. When you set " " for the recording rate, the recording does not perform for that camera number. · Select "View" to display the preview screen and check your settings. When you set frame recording, the recording rate display in the preview screen turns green. The recording rate display turns red when the value exceeds 100 pps in total. <Estimated Recording Time> · The estimated continuous recordable time is displayed on the bottom of the preview screen which is dependent on the picture grade and the recording rate settings for normal recording. (The time does not reflect alarm recording settings.) · When the main device is partitioned, <Estimated Recording Time> shows the estimated recordable time for normal recording. step3. Press the REC/STOP button.

· The REC/STOP button lights up and recording starts. To stop recording, press the REC/STOP button for more than 2 seconds. · Recording stops and the light turns off. REC/STOP step4. Basic operations 15 ENGLISH Basic manual recording Setting the recording rate and picture grade for normal recording Playing back the recorded data Basic playback This function is used to playback recorded data.

This unit allows recorded data to be played back using various methods. The basic playback described below is the most common method for playback. step1. step4. To stop playback, press the STOP button.

· When executing playback again, the playback starts from the stopped position of the previous playback. Press the PLAY button inside of the front door. · Playback starts. · After turning the power on, the oldest recording data is played back first.



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Otherwise, playback resumes at the stopped position of the previous playback spot. STOP PAUSE REV. PLAY PLAY Pressing the OUTPUT A/B button on the front panel switches the multiplexer video output. When OUTPUT A is selected, the button light indicator is off. When OUTPUT B is selected, the button light indicator is on, and the buttons related to playback function are operated for the monitor screen connected to the OUTPUT B connector. Pressing the OUTPUT A/B button again switches the multiplexer output to OUTPUT A.

The playback of each camera may not be executed at a constant speed depending on the recorded condition. During the split screen display, the playback speed may be slower than the speed used for recording. When playing back on both OUTPUT A and B, the playback speed may be affected and become slower. JUMP TO END SPEED When the "Playback Device Repeat Setting" is set to "Repeat Off," playback stops when reaching the physical end of the HDD or end point of the recording section. When the "Playback Device Repeat Setting" is set to "Repeat On," recorded data is played back repeatedly. (System Menu Memory Recording Data Readout Setting) step2-1. [To change the playback device:] Select the playback device and playback area in the <Select Source Device>. (User Menu Search) Main: Plays back the contents from the main HDD device. Normal: Normal recording area Alarm: Alarm recording area LPA: Long pre-alarm recording area Copy 1: Plays back the recorded contents of the copy 1 device. "SerialBus," "DVD/CD," "USBmemory" Copy 2: Plays back the recorded contents of the copy 2 device.

"Internal," "SerialBus," "DVD/CD" "Alarm" appears when "Alarm Recording Area" is set Memory Data to other than "0 %." (System Menu Management Setting for Main Memory) "LPA" appears when "Long Pre-Alarm Area" is set to Memory Data other than "0 %." (System Menu Management Setting for Main Memory) step2-2. Press the PLAY button. · Playback of the selected device starts.

When you press the PAUSE/JUMP TO END button during the playback is stopped, the still frame playback picture around the end point of the latest recording is displayed. step3. To pause playback, press the PAUSE button. · To resume playback, press the PAUSE button again or press the PLAY button. 16 Searching the desired picture This function is used to search the start point of needed picture.

This unit is equipped with 5 search functions (Search by Time and Date, Search by Alarm List, Find data storage location, Search by Book Mark, and Search by Motion). In this section, the common search methods, search by time and date and search by alarm list, are described. Search by Time and Date This item is used to search recording picture by specifying date, hour, minute, second, and camera number. The search result is displayed in still frame playback. When searching for 1 camera number, the search result is displayed in the single screen display. When searching for 2 or more camera numbers, it is displayed in SPLIT16 screen. User Menu 1 Search 2 step1. Search by Time and Date To input the time and date to be searched manually, select "Manual" and then set the month, date, year, hour, minute, and second. · To input the start and end points of recording, select "Start" and "End" respectively. Set the camera numbers to be searched.

Select "Search." To playback the searched picture, press either the PLAY button or the PAUSE button. To stop playback or still frame playback, press the STOP button. step2. step3. step4. step5. To change the source device to be searched, set the desired device in the <Select Source Device>. (User Menu Search) To display the single screen display of the desired camera number when the search result is displayed in the SPLIT16 screen, press the desired camera number button. When there is no recording data of the set time, the picture of the closest time and date for the set camera number is displayed in still frame.

When the multiple recording data of the same date and time are existed, execute search by time and date more than once until the desired picture is searched. Depending on the recording condition, search by time and date function may not operate correctly. When you change the display from single to split or from split to single during still frame playback, the recording picture may not be existed at that point or picture may not be displayed depending on the selected camera number or timing of displaying the still frame playback picture. Basic operations 17 ENGLISH Basic search Searching the desired picture (continued) Search by Alarm List This unit stores the start time of alarm recording and emergency recording in the alarm list when such recording begins. This item is used to search the desired picture using the list of alarm recording (emergency recording).

The search result displays in still frame playback of the single screen display. User Menu 1 Search steps To clear the alarm list, erase the HDD data of which the alarm recording is recorded (System Menu Data Clear). Beware that executing it erases all the data of the HDD containing the picture data. Alarm list search is not performed if there are no index signals. When alarm recording (emergency recording) is started while displaying the <Alarm List>, you must first exit the <Alarm List> and then display it again.

The new item is added to the list. In this case, you may have to specify the date and time to be searched again. For alarm list search of LPA area, the list from the start point of media is displayed when selecting "To latest," and the list from the end point of media is displayed when selecting "To oldest." 1, 2 3 Search by Alarm List step 3 D Alarm List step1. Set the month, date, year, hour, minute, second, and sensor number to be searched. Latest: Displays the date and time of the latest recording. Select "Alarm List." step2. The alarm list may take longer time to display completely when there are many items in the list. The displayed alarm list shows the list of alarm recordings which have been started before and closest to the specified time.

step3. Select the alarm list you want to display. To change the source device to be searched, set the desired device in the <Select Source Device>. (User Menu Search) To execute alarm list search while the "Alarm area" and "LPA area" are set, set the playback area to "Alarm" and "LPA" respectively. "Sensor" display indicates the sensor number to which the alarm signal is input. When repeat recording setting for normal and alarm areas are set to "Repeat Off" and there is an alarm recording (emergency recording) at the end of the HDD, that recording may not be stored in the alarm list and that item may be missed.



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When the data of the camera number which is not corresponded to the alarm sensor number is copied to the external media, the alarm list of that data is not exactly similar to that of listed in the digital recorder. When the detection of the motion or the ground of the ALARM IN terminal occurs numerously at the same time, not all the start times of the alarm recording may be registered in the alarm list. In this case, the sensor of the lowest number is registered in the list. In the alarm list, items with the ALARM IN terminal grounded are indicated in orange, items that were detected with motion are indicated in white, items with the EMERGENCY terminal grounded are indicated in magenta, and items that were input with alarm signal via communication are indicated in green.

18 Copying the recorded data ENGLISH This item is used to copy the data from the main device to a copy device. When copying the data to DVD while "Overwrite" is set to "On," the unit clears the existing data on the disc before overwriting with new data. Note that clearing the data takes about 30 to 40 minutes. You cannot cancel operation during clearing the data of the DVD. When copying the data while "Copy Data" is set to "Alarm," the unit performs copy operation, however, the data is not copied if there is no alarm recording data within the specified range of copy.

@@@The points are specified by the date and time or the bookmark. @@@@Select "Other settings" and then set the detailed settings. From Device: Sets the device which contains the data to be copied. @@@@To Copy 1: Sets the group to where the data is copied.

@@@@@Start: Sets only the start point of copy.

@@Start/End: Sets the start and end points of copy. End: Sets only the end point of copy. @@@@@@The point is specified by the date and time or the bookmark. The copy continues until the end point of the recording data reaches or the media to be copied becomes full unless the copy is stopped manually (when "FIFO Overwrite" is set to "Off"). This function is useful for making backup of the recording data. Before executing the copy, make sure that the Copy 2 device is connected and set in the <Add/Remove HDD Device> and <Add/Remove DVD/CD Drive> correctly. (System Menu Memory) User Menu 2 Copy step When copying the data to DVD while "Overwrite" is set to "On," the unit clears the existed data of the disc before overwriting with new data. Note that clearing the data takes about 30 to 40 minutes. You cannot cancel operation during clearing the data of the DVD. When copying the data while "Copy Data" is set to "Alarm," the unit performs copy operation, however, the data is not copied if there is no alarm recording data within the specified range of copy.

@@Do not use the disc which has been used on the personal computer, failed to be copied, or stopped during copying due to the power failure because they may cause malfunction of the unit. step3. 4 2 Copy Data to Copy 2 Drive step 3 1 + 2 Range of Copy steps 1, 2 step4. 4 Set Copy 2 Drive step1. Set the start time of copy. Start: Sets the start point of copy. Continue: Starts copying from the end point of the previous copy. · To set the start point using the bookmark, select "Bookmark" and then select the desired bookmark number. · To copy from the oldest recording time, select "Copy Start Time." Select "Execute.

· The copy starts. · To stop copy manually, select "Cancel" in the screen of <Copy Data to Copy 2 Drive>. The data which has been copied before cancelling is copied. Set the camera number to be copied. @@@@Select "Other settings" and then set the detailed settings.

From Main: Sets the area which contains the data to be copied. The available setting items are "Normal," "Alarm," and "LPA." To Copy 2: Sets the group to where the data is copied. The available setting items are "SerialBus," "DVD/CD," and "Internal." Copy Data: Sets the data area to be copied.

@@Auto Eject: Selects whether to eject media (CD/DVD) automatically when the copy is over. FIFO Overwrite: Selects whether to repeat copying from the start point of the media by overwriting the existed data, or to stop copying when the capacity of the media becomes full during copying. This setting is available only when the copy destination is HDD. step2. The warning is displayed when the copied range exceeds the available capacity of the device to be copied when "FIFO Overwrite" is set to "Off" and the copy destination is HDD. In this case, set the copy setting again with narrower copy range or use a copy device with larger capacity. When the copy is performed during recording, the picture of the recording start and end points may not be recorded. When the recording data of the main device which is being copied is about to be overwritten or has been overwritten, copy is stopped. Be careful for the copy which requires long time such as overwriting copy of DVD. The progress bar of copy is not displayed for copy 2.

The picture data is processed in 2 MB unit. Therefore the data is copied in 2 MB unit from the start point of the designated range when copying. "Alarm" appears for "From Main" when "Alarm Recording Area" is set to other than "0 %." (System Menu Memory Data Management Setting for Main Memory)

"LPA" appears for "From Main" when "Long Pre-Alarm Area" is set to other than "0 %." (System Menu Memory Data Management Setting for Main Memory) 20 This function is used to copy the data of this unit to a video cassette using an analogue video cassette recorder. Data can be copied even when the unit is in recording. For the recording operation, see the instruction manual for the analogue video cassette recorder used. step1. [Analogue video cassette recorder] Prepare the VCR for recording. · Set the input source of the VCR to the external input.

[This unit] Display the picture in its format (single/ split) that you want to record. [This unit] If needed, use the search function to display the start position of copy. [Analogue video cassette recorder] Start recording. [This unit] Press the PLAY button to start playback. To stop copying, press the STOP button on this unit first.

And then, stop the recording on the analogue video cassette recorder. step2. step3. step4. step5.

step6. Only the picture displayed on the monitor screen can be copied to the video cassette. Basic operations 21 ENGLISH Copying the data of this unit to a video cassette Copying the recorded data (continued) Playback software When copying the data to CD/DVD or USB memory, the needed PC playback software is automatically copied on to the disc. Refer to the following for using the software.



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*Field Reverse* Click to display a still picture one field before. *Stop* Click to stop playback. Audio, if recorded, is played back after the stop when the audio command has been enabled. *Field Advance* Click to display a still picture one field after. *Playback* Click to playback the picture in the forward direction. *Forward Search* Click to playback the picture in the forward direction with a higher speed than normal playback.

The speed changes from X1 to X2, X4, X8 and back to X1 at every press of this button during playback. to Camera button (These buttons are displayed when the located on the lower right of the Forward Search button is pressed.) Click to display the picture of the camera corresponding to the number of the button. The indicator turns green for the camera number which is being displayed, and it turns black for the camera number which is not being displayed. The picture is not displayed even when the indicator turns green if the data has not been copied for that camera number. Refresh Speed button located on the (This slider is displayed when the lower right of the Camera button is pressed.) Drag with the mouse to adjust the playback speed. When setting to [Fast], it may disrupt the operation depending on the performance of the personal computer used. Use this setting with the proper picture playback speed suitable to the personal computer used. The playback speed slider may not be changed at a constant interval when the data which is additionally copied is played back.

Output button located on the (This is displayed when the lower right of the Refresh Speed slider is pressed.) [Not Synchronized playback] Put a checkmark to [Output] on the FSMPlayerLite panel and select a playback channel from the drop-down menu. Then select [Not Synchrono.] in the [Playback] field. Play back the copied data and stop at a point where you want to hear the audio.

The audio data around the stop point are played back. You can change the duration of audio playback in 3 levels using the slide bar on the right side. The actual duration of audio playback varies depending on the frame rate of the recorded picture. Adjust the duration for every data to be played back.

[Synchronized playback] Select [Synchrono.]

] in the [Playback] field. You can play back simultaneously the audio and picture of the data downloaded in blocks via network or the data copied together with audio by a recorder. Only one playback channel is displayed in this case. Audio is not played back during other than normal playback (such as fast-forward playback and reverse playback). The [LipSync] slide bar should be adjusted according to the PC to be used and the recording status of data to be played back. In some cases, there may not be found an optimum position where the picture and audio synchronize with each other. System requirements . . . . . OS: Microsoft Windows 2000 or Windows XP. CPU: IBM PC/AT compatible with an Intel Pentium series processor of at least 500 MHz. RAM: 256 MB or more. HDD: System drive with unused space of at least 200 MB.

Display device: XGA (1024 pixels X 768 pixels) or higher. Starting up the application software step1. Load the CD/DVD/USB memory to the personal computer which has been used for copy. Double-click the icon of the disc to open. step2. step3. Start up the application software. Double-click the "FSM Player Lite.exe." The application software starts up and the operation panel appears.

When the picture cannot be loaded, use the [Folder] command in the [File] menu to select the picture folder to be played back. You can open the FSMPlayerLite panel in 4 stages by clicking on the right side. In the first stage, you can select playback, search and bookmark operations. In the second stage, you can select a camera to display. In the third stage, you can adjust playback speed (reducing only) and in the fourth stage, you can make various settings for audio playback.

Menu Operational Panel Operational panel Rewind Click to jump to the head of the recording data. Reverse Search Click to playback the picture in the reverse direction with a higher speed than normal playback. The speed changes from X1 to X2, X4, X8 and back to X1 at every press of this button during reverse playback. Reverse Playback Click to playback the picture in the reverse direction. 22 The settings on this panel remain intact for the next startup. Audio playback channel and picture display channel are not related. When data are played directly from a drive that is slow to read CD and DVD, audio may be output intermittently. Play back data after copying it to a HDD. Picture Size When clicking, the options of [100%], [75%], [50%], and [25%] appear. Pictures are zoomed in or out according to the selected magnification. Decode Level When clicking, the options of [Fine], [Middle], and [Rough] appear. When setting the decode level to rough, the picture becomes rough and the playback update speed becomes faster. Title Bar When clicking, the options of [Date Time] and [Alarm] appear. Put a check mark to the item to be displayed on the screen. File menu Convert When clicking during the playback is stopped, [Convert] screen appears.

Specify the range to be converted and the camera number, and then press the [JPEG] or [AVI] button to convert and save the picture data collectively.

Collective conversion requires adequate free space in the physical memory and the HDD for temporary files (the system partition and save drive). The limitations of available memory space and HDD space vary depending on your operating conditions. Perform conversion starting from a small file that requires only several seconds to be converted while checking the state of the memory and the HDD. Grouping menu Grouping Pattern When clicking, the [Grouping Pattern] screen appears. When you click the [4 Multi], [6 Multi], [9 Multi], [10 Multi], [13 Multi], or [16 Multi], the split screen of the selected pattern appears. Click "Setting" to display the screen to set the display position of the camera in each screen. Menus appearing with right button clicking To use the following functions, click the right button of the mouse on the screen to be operated. The following functions are performed only for the clicked screen.

During playback: Picture Size Refer to the section of the "View menu.

" Decode Level Refer to the section of the "View menu." During stopping playback: Copy Click to copy the picture being displayed onto the clipboard. Save

As When clicking, the [Save As] screen appears. You can save the picture being displayed as either a Windows bitmap file (.bmp) or a JPEG file (.jpg). Picture Size Refer to the section of the "View menu." Decode Level Refer to the section of the "View menu." Print When clicking, the [Print] screen appears. After setting the [Margins], [Printer Settings]

..] and other options, click [Print] button to print the picture being displayed. When playing the data recorded in frame recording, the outline of the picture may be serrated.



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In such case, change the picture size to larger setting. When loading the media with a lot of picture data copied, playback software may take time to be started up. Search menu Search When clicking, the [Time Search] screen appears. Specify the date and time to be searched, and then click the [Search] button. The picture of the specified time or around such time appears. The search may not be performed when the date and time information of the recorded contents is not chronological such as the data which is added to the existing data.

Operation menu For [Playback], [Stop], [Reverse Playback], [Forward Search], [Reverse Search], [Field Advance], [Field Reverse], or [Rewind], refer to the section of the "Operation panel." Bookmark menu A-, BClick to register the current playback position as Point A or Point B to repeat playback between those positions. Repeat between A and B Put a check mark to repeat playback between Point A and Point B you specified. Basic operations 23 ENGLISH In synchronized audio playback, the frequency of picture refreshing is reduced depending on the processing power of PC. When you want to playback giving priority to picture, select [Not Synchro.]. View menu Communications by Web Browser Communications by Web Browser The Web browser on the personal computer can capture the pictures that have been recorded and live pictures from the camera that is connected to this recorder. Also, some of the recorder settings can be made via the personal computer. Login Start up the Microsoft Internet Explorer and log in. step1.

The personal computer product requirements . . . . . OS: Microsoft Windows 98SE, Windows 2000, Windows Me or Windows XP. CPU: IBM PC/AT compatible with an Intel Pentium series processor of at least 500 MHz. RAM: 256 MB or more. HDD: System drive with unused space of at least 200 MB. Web Browser Soft: Microsoft Internet Explorer 5.

5 or later. Display device: XGA (1024 pixels x 768 pixels) or higher. Microsoft and Windows are registered trademarks of the Microsoft Corporation in the US and other regions. (The official name of Windows is Microsoft Windows Operating System.) All other company and product names appearing herein are the property of their respective owners.

· Windows 98SE is an abbreviation of Microsoft Windows 98 Second Edition. · Windows 2000 is an abbreviation of Microsoft Windows 2000 Professional. · Windows Me is an abbreviation of Microsoft Windows Millennium Edition. · Windows XP is an abbreviation of Microsoft Windows XP Home Edition/Professional. The product requirement described above cannot guarantee operations in all environments. Lack of compatibility between Web functions and the PC peripheral driver may, in rare instances, result in abnormal operation. If this happens, upgrade to the newest version of Internet Explorer and try again. step2-1. Start up the Microsoft Internet Explorer and enter the IP address of the recorder. · Enter the IP address which is set in <LAN (Communication) Setting> (System Menu COM/LAN).

When shipped from the factory, the IP address is set to "192.168.000.100." · The "[Login]" screen appears. (When logging in . . . ) First, enter the "User ID" and the "Password." When shipped from the factory, the user ID for the full-rights user is "root," and the password is "admin000," the user ID for the live user is "guest" and the password is "guest." More than one user can log in simultaneously using the same user ID and password. However, there are restrictions depending on authorization. The maximum number of users that can be connected at the same time is 10.

step2-2. Connections · When making a direct connection between this unit and a personal computer (hereinafter PC), use a cross cable, and when making a connection through a HUB, use a straight cable. Refer to the PC instruction manual for instructions on how to set the Web settings on the PC. Select "login" and then left-click or press ENTER. · The "[Main Menu]" screen appears.

· 24 step3-2. Select "Login" and either left-click or press ENTER. · The "[Login]" screen appears. Follow step 2-1 and enter the correct "User ID" and "Password." (If you do not log in . . . ) Select "If you won't log in, please go to Logout." and left-click. step3-3. This is the screen for selecting, from "Main Menu," "Live Monitoring" with which live pictures are retrieved and displayed, "Playback" with which pictures that have already been recorded are retrieved and displayed, "Configuration Menu" which allows changes to the settings of the recorder, "Logout" for ending a job, or "Change Login User" for making a change in the logged-in user. Depending on the user's authorization, there are certain menus that cannot be selected. The transfer rate at communication changes depending on the communication environment or unit's status. For stable communication, use this unit with the proper image transfer speed suitable to the conditions of the communication line. The user's session ID (connection data) is lost in 5 minutes from the final operation that includes picture retrieval. If no operations are made within that 5 minutes, no other operations can be made after that so close the browser and then log in again. If the unit's MAIN switch is "OFF," live and recorded pictures cannot be retrieved. step1.

step4-1. step4-2. The message "Session ID removed from recorder & browser. Please close the browser." is displayed. Close the Web Browser at this point. (To change password . . . ) The password can be changed in the "[Login]" screen only by the user who has the authorization to change a password. Follow the instructions in the menu and enter the current "User ID" and "Password." step5-1. step5-2.

Enter the new password in "New password" and again in "New password (Confirmation)." The number of characters that can be used in registering a password is 16. Both alphabet letters and numbers can be used with a distinction made between upper and lower case. You cannot use spaces. step5-3. Select the desired menu from "Main Menu" and leftclick. To change to a new password, select "change" and left-click or press ENTER. To cancel the change, select "clear" and left-click or press ENTER. Communications by Web Browser 25 ENGLISH step3-1. (If you make an error in entering the user ID or password . . . ) · The "[Caution]" screen appears.

Main Menu Communications by Web Browser (continued) Live Monitoring Retrieves live pictures and displays the pictures on the PC screen.



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