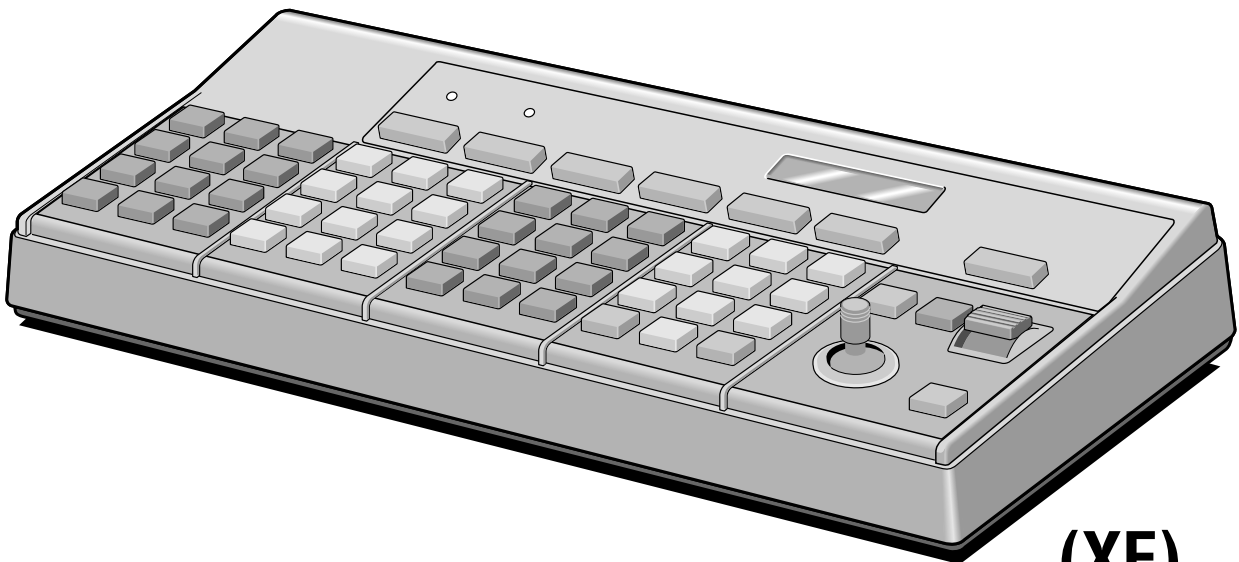


## INSTRUCTION MANUAL

## VSP-8000

### System controller



**(XE)**

#### **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.

# PRECAUTION

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR OTHER MOISTURE. To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only. If the power supply cord (AC power cord) of this appliance is damaged, it must be replaced. Return to a SANYO Authorized Service Centre for replacement of the cord.

## Location

For safe operation and satisfactory performance of your system controller, keep the following in mind when selecting a place for its installation:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the system controller. Do not place the unit on a carpet because this will block the ventilation holes.
- Install the system controller in a horizontal position only.
- Avoid locations subject to strong vibrations.
- Avoid moving the system controller between cold and hot locations.
- Do not place the system controller directly on top of a monitor TV, as this may cause playback or recording problems.

## Avoiding Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC wall outlet. Grasp it by the plug.
- If any liquid is spilled on the system controller, unplug the power cord immediately and have the unit inspected at a factory-authorized service centre.
- Do not place anything directly on top of this system controller.

## SERVICE

This unit is a precision instruments and if treated with care, will provide years of satisfactory performance. However, in the event of a problem, the owner is advised not to attempt to make repairs or open the cabinet. Servicing should always be referred to your dealer or Sanyo Authorized Service Centre.

## CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacture's instructions.

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# MAIN FEATURES

- This product is to be connected to the RS-485 control terminal of Sanyo multiplexers, timelapse VCRs, cameras and digital video recorders. It can operate a maximum of 128 of each device, to a maximum of 256 devices in total. Up to a maximum of five VSP-8000s can be connected together.
- Individual operation by addresses
  - You can operate individual devices by specifying their address and using the command buttons or call-up commands of the VSP-8000.
  - When you set the address for a device, you can also give it a title.
  - The status of each device can be displayed on the menu screen of the VSP-8000.
- Group operation
  - The VSP-8000 allows the setting of up to 15 groups. This enables the simultaneous operation of all the devices registered together in one group.
  - In addition to simultaneous operation of all devices in a group, simultaneous operation of a category of devices is possible by specifying either multiplexers, timelapse VCRs, cameras or digital video recorders.
  - By logging the same peripheral device in multiple groups, the same operation can be performed at the same time.
- If an alarm is tripped or the operating status of a device changes, the alarm or status lamp on the VSP-8000 will start flashing. The date, time, and status at the time of the event are logged individually up to maximum of 100 events.
- Security features
  - A secret number can be set as a security lock for each device.
  - Set one VSP-8000 as the master controller for setting the simple lock for each device on the system. Also, if you use the timer setting on the VSP-8000, you can have the timer lock activate at set time periods.
  - By issuing commands with the VSP-8000, you can activate the security locks for each device. Therefore, you can lock the operations of any device on the system.
- Upload/Download menu settings\*

You can upload menu data from the specified device to the VSP-8000, and download it collectively to other devices.
- Transfer date/time information\*

You can download to a device that will use the data for the date/time specified with the VSP-8000 and specify a date/time collectively.
- Alarm buzzer

The controller will sound a built-in buzzer when certain conditions arise, such as a triggered alarm for a connected device or a change of operational status in a connected device.
- RS232C - RS485 conversion

Connection of a computer to this unit's RS232C port will enable the computer to control other connected devices through this controller.

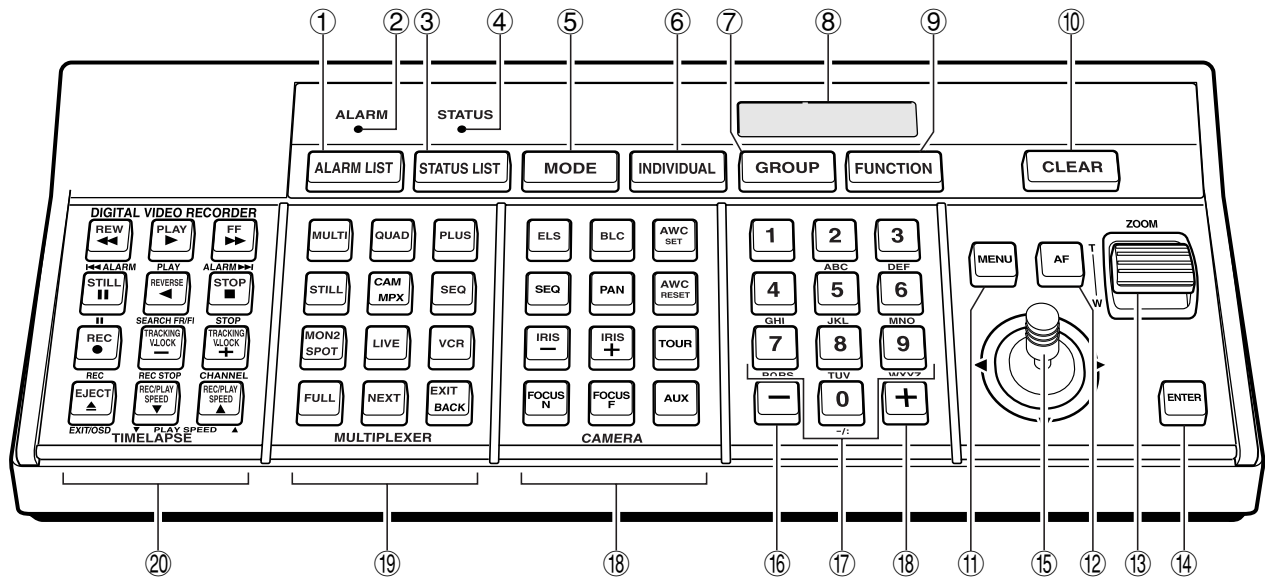
Protocol information necessary for computer communications with this unit is available separately from Sanyo, but the customer is responsible to develop his own communications software.

**Note:**

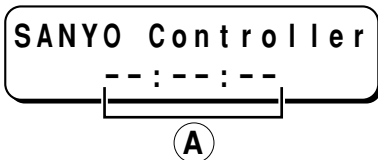
- Some devices may not be compatible with features marked by an asterisk (\*).
- Some devices may be only partly compatible with these features.

# PART NAMES

## ■ Operation panel



- ① **ALARM LIST button (P43)**  
Press to display the alarm data for each device.
- ② **ALARM lamp (P43)**  
Lights to notify you if an alarm occurs at a device.
- ③ **STATUS LIST button (P44)**  
Press to display the status data for each device.
- ④ **STATUS lamp (P44)**  
Lights to notify you if the status of a device changes.
- ⑤ **MODE button**  
Press to select the device (multiplexer etc.) to operate.
- ⑥ **INDIVIDUAL button (P20, 25, 29, 34)**  
Press for separate operation of individual devices.
- ⑦ **GROUP button (P38)**  
Press to operate a group of devices simultaneously.
- ⑧ **Menu screen**  
When the power switch on the rear panel is turned on, the screen shown below is displayed. (A) denotes the section where the date and time are displayed when they are set. Also, when the operation buttons are pressed, the operating status and settings are displayed here.



- ⑨ **FUNCTION button (P22, 27, 32, 36)**  
Press to operate the various devices by calling up their commands.
- ⑩ **CLEAR button**  
Press to clear what you have entered.

- ⑪ **MENU button (P7)**  
Press to bring up the menus. Switches between the menu display and initial display each time pressed.
- ⑫ **AF button**  
Press to focus the camera automatically with a single button press.
- ⑬ **ZOOM lever**  
Use to carry out electronic zooming.
- ⑭ **ENTER button**  
Press to enter and finalize the settings.
- ⑮ **Joystick lever**  
Tilt up, down and to the left and right to move the cursor. Used to carry out tilt and pan operations when using the camera.

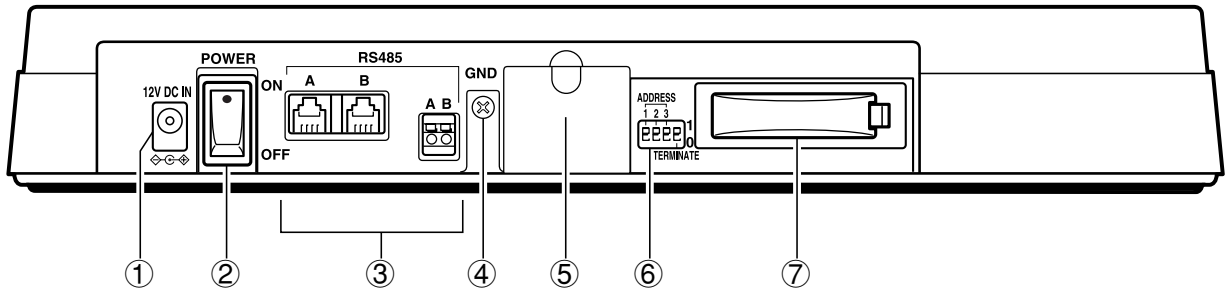
**Note:** Do not use unnecessary force or else the lever or switch may be damaged.

- ⑯ **Plus (+) and minus (-) buttons**  
Press to switch between menus and select settings.
- ⑰ **Numeric keypad (0 to 9)**  
Press to enter alphanumeric characters and symbols.
- ⑱ **CAMERA command button (P29)**  
Press for camera operation.\*
- ⑲ **MULTIPLEXER command button (P20)**  
Press for multiplexer operation.\*
- ⑳ **TIMELAPSE VCR/DIGITAL VIDEO RECORDER command button (P25, 34)**  
Press for timelapse VCR or digital video recorder operation.\*

\* In order to allow operation of command buttons ⑱, ⑲ and ⑳, a serial communication terminal (either a RJ-11 or Push-lock terminal) is required.

# PART NAMES

## Rear panel



- ① **Power supply plug (12V DC IN)**  
Connect the AC adapter supplied with the VSP-8000.
- ② **POWER switch**  
Use to turn the VSP-8000 on and off.
- ③ **RS-485 control terminal**
  - (A) RJ-11 A terminal  
Used for connection with a modular cable.
  - (B) RJ-11 B terminal  
Used for connection with a modular cable.
  - (AB) Push-lock terminal  
Used for connection with a twisted-pair cable.

**Note:**

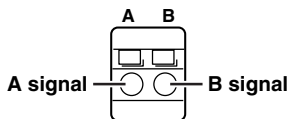
- Do not connect to a phone line.
- Only up to two RS-485 control terminals can be used.
- Do not use all of the RS-485 control terminals.

### (RJ-11 A and B terminals)



Pin number	A terminal signal	B terminal signal
1	Not used	Not used
2	Not used	Not used
3	A signal	B signal
4	B signal	A signal
5	Not used	Not used
6	Not used	Not used

### (Push-lock terminal)



- ④ **Ground (GND) terminal**  
It is possible that RS485 communications may develop some instability or that RS232C connection of the controller to a computer may create a potential difference that interferes with the RS485 signal.  
Ground the computer or use this terminal to ground the controller.
- ⑤ **RS-232C port**  
Used to connect a computer using a 9-pin D-Sub cable (sold separately) so that the system controller can be controlled using a computer.  
Since this port is normally covered, remove the cover before connecting.
- ⑥ **ADDRESS/TERMINATE switch (P6)**  
Used to set the VSP-8000 for addressing or termination.
- ⑦ **Battery compartment**

## Backup function

The VSP-8000 is equipped with a lithium battery for backing up the internal clock of the unit. The battery is charged when power is supplied to the unit. After 30 hours of charging, the battery is capable of maintaining the clock operation for up to 30 days.

**Note:** If power is supplied to the unit for only a short period of time, the battery may run out of power and cause the clock to be incorrect.

### Battery life

With the AC adapter unplugged from the wall socket, wait approximately one hour and then turn on the power and check the initial screen. If the screen shown below appears, then the battery has expired. At this point, replace it with a new battery.



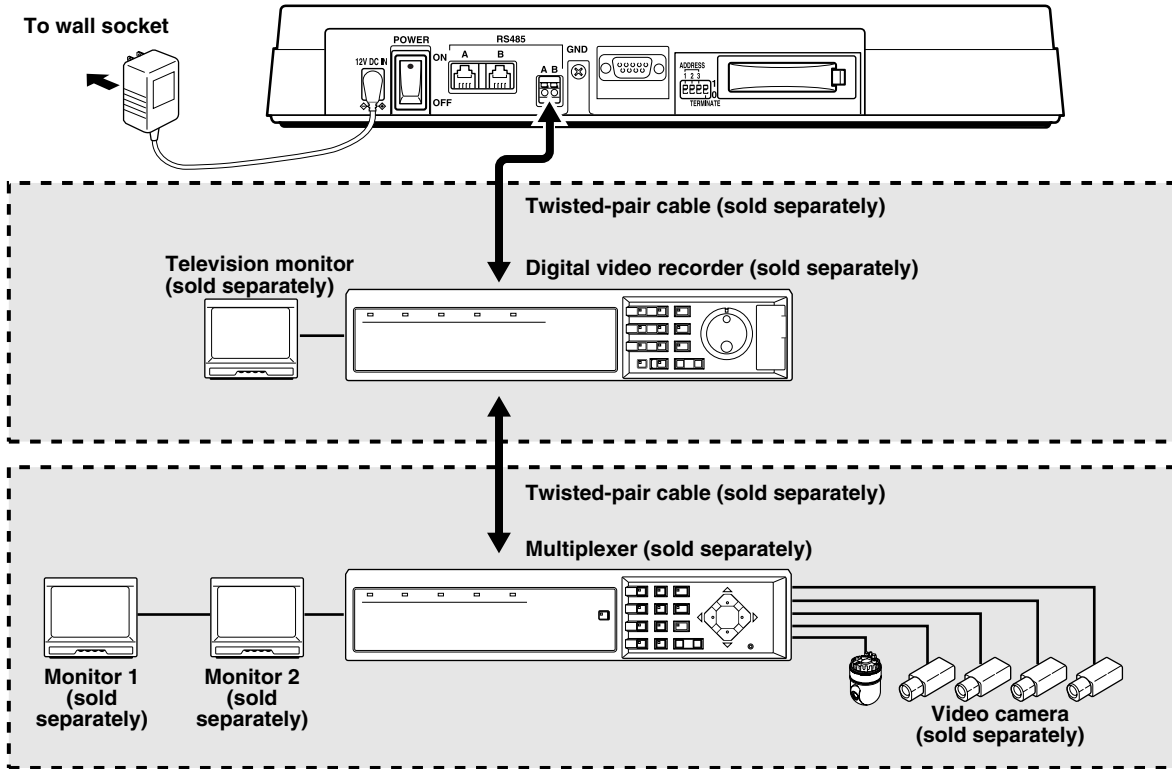
### Battery replacement

Have the battery replacement done at the same sales outlet where you purchased the VSP-8000. After the new battery is installed, set the date and time as explained in "Setting the Date and Time".

# CONNECTING THE VSP-8000

## Basic setup

With all the devices turned off, connect all the devices with cables using their RS-485 control terminals. There are straight-type and cross-type modular cables, so be careful not to mistake them during connection.



## RS-485 terminal connections

### Connecting using the RJ-11 terminal

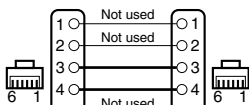
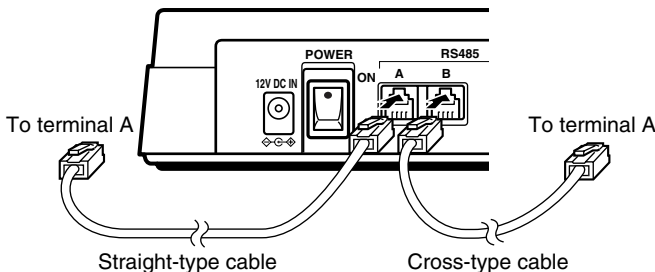
Make the connections with a modular cable (either the one supplied with the VSP-8000 or one sold separately).

- When using a straight-type cable (supplied with the VSP-8000)

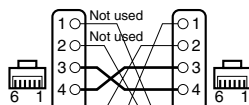
Connect the A terminals together and the B terminals together.

- When using a cross-type cable (sold separately)

Connect the A terminal to B and the B terminal to A.



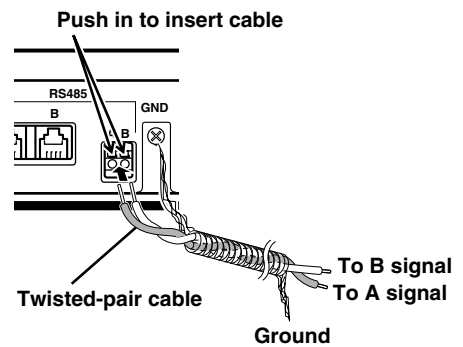
Straight type



Cross type

### Connecting using the push-lock terminal

Make the connections with a twisted-pair cable. Connect the A signals together and the B signals together.



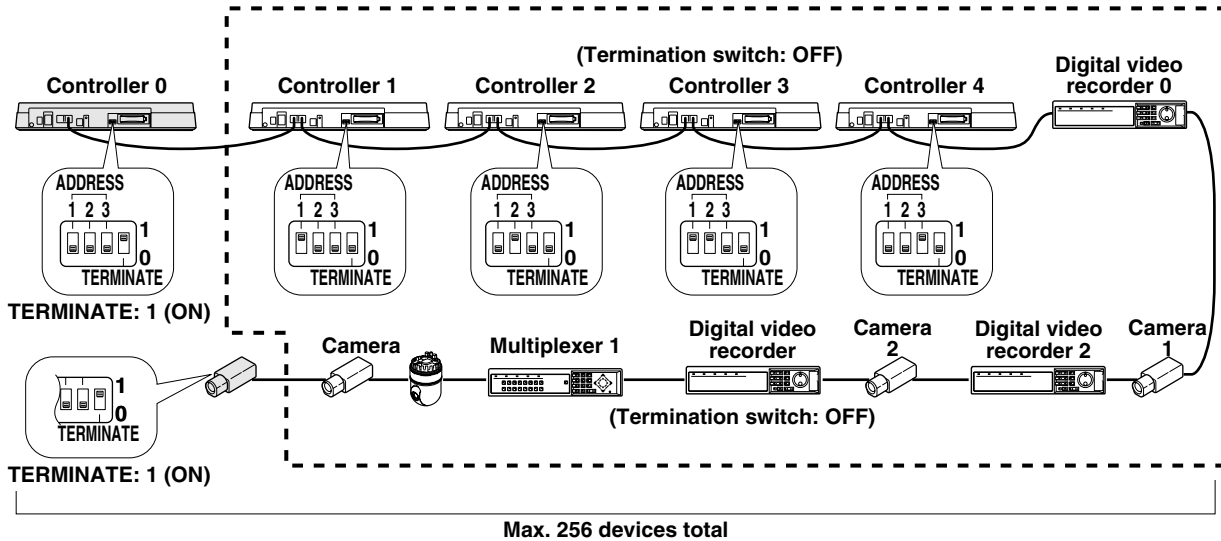
# CONNECTING THE VSP-8000

## Number of devices that can be connected

The devices are to be connected in series (i.e., daisy-chain connection) with either modular cables or twisted-pair cables. For details regarding how to set the address and termination for a device, refer to the instruction manual supplied with that device.

**Note:** Before transmission begins, please check that the device that is connected is set correctly for RS-485 communication. For details of communication settings, please refer to the instruction manual for each device.

- Number of VSP-8000s that can be connected together: Max. 5
- Number of each device (multiplexers, timelapse VCRs, cameras and digital video recorders) that can be connected together: Max. 128
- Number of dome-type cameras that can be connected: Max. 64
- Number of devices in system: Max. 256



## Setting the address

When connecting multiple VSP-8000s, assign the address (switches 1 to 3) and termination for each unit on its rear panel. The address can be set from 0 to 4 for each unit.

If the address for a unit is set to 0, then that unit becomes the master controller.

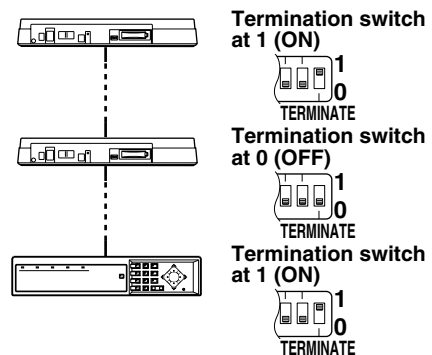
**Note:** If an address other than one of those shown in the table below is set, then "ADDRESS ERROR" will appear flashing in the menu screen.

ADDRESS 1 2 3 1 0	Unit address	Position of ADDRESS/TERMINATE switches
	0	1 2 3 1 0
	1	1 2 3 1 0
	2	1 2 3 1 0
	3	1 2 3 1 0
	4	1 2 3 1 0

## Setting the termination

The devices located at each end of the daisy-chain must be set with their termination turned on.

- To turn on the termination, set the termination switch of the ADDRESS/TERMINATE switch to 1 (ON).
- For all the devices other the ones located at the ends, set the termination switch to 0 (OFF).



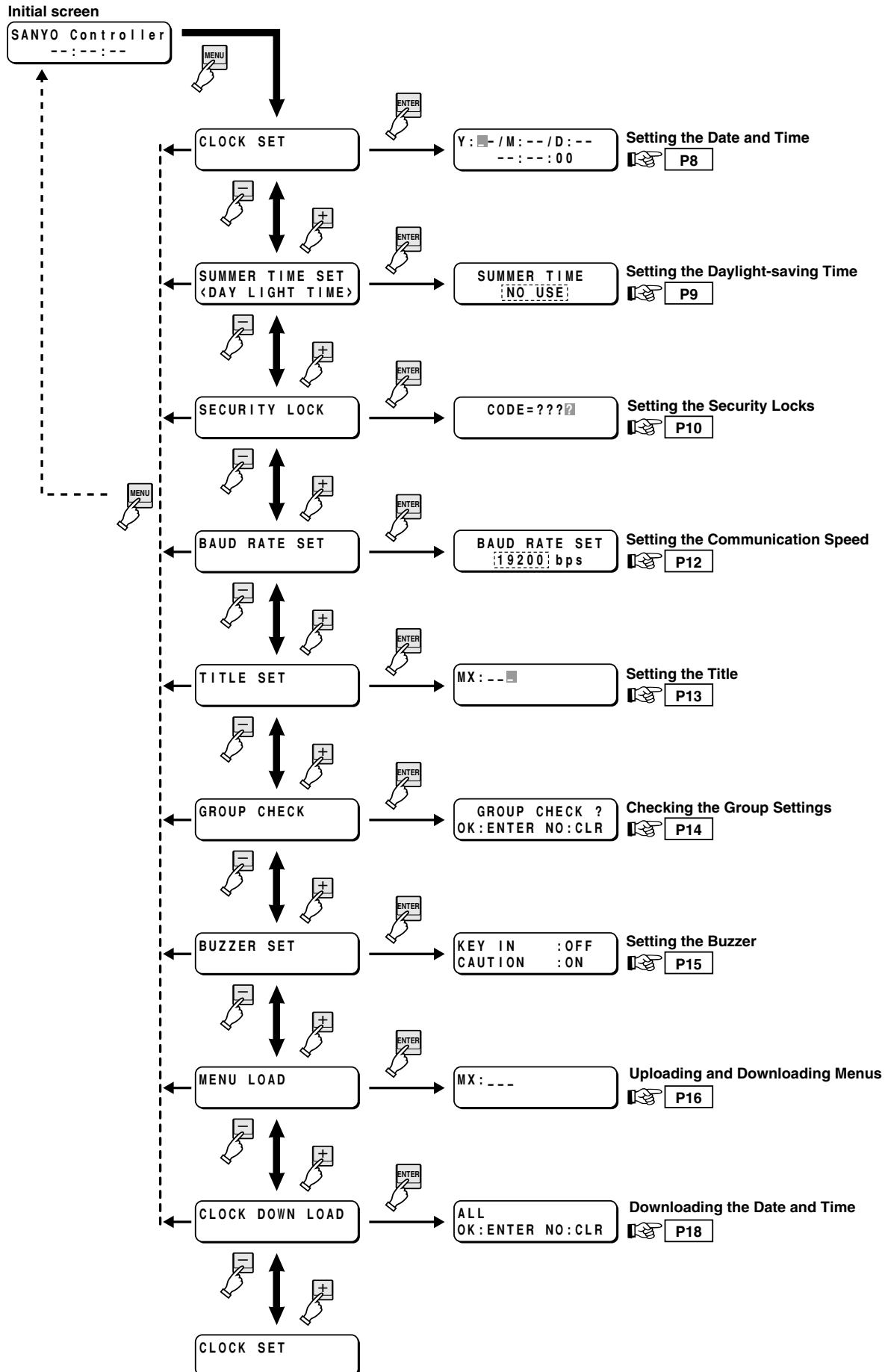
**Note:** If the termination is not properly set, data will be reflected at the ends of the daisy-chain and affect other data, resulting in incorrect data being sent to the various devices.

# MENU SETTINGS

Turn on the VSP-8000 with the power switch on the rear panel, and set the date and time. The settings are performed at the menu screen area.

## ■ Displaying the menu screen

Press the **MENU** button and then press either the + or – buttons to switch between the different menu screens.



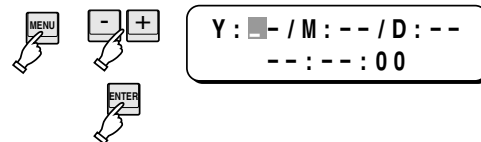


# SETTING THE DATE AND TIME

Example: Setting the date to May 10, 2000 and the time to 9:20:00.

- 1** Press the **MENU** button.  
Then press the + (or -) button until “**CLOCK SET**” is displayed and press the **ENTER** button.

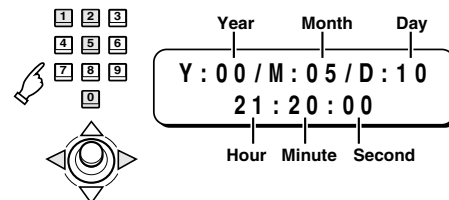
- The date and time setting screen appears.



- 2** Set the year, month, day, hours, minutes, and seconds with the numeric keypad.

- For the year 2000, press [0] [0]. The cursor will move to the month.
- For single digit numbers, first enter a zero.  
**Ex.:** To enter the month of May, press [0] [5].
- The clock is a 24-hour clock.  
**Ex.:** To enter 9:00 p.m. (21:00), press [2] [1].

**For mistakes:** Either press the **joystick lever** (◀ or ▶) to move the cursor, or press the **CLEAR** button. Then recheck and enter the correct setting.



- 3** Press the **ENTER** button.

- The settings are stored and the “**CLOCK SET**” screen reappears.



Press the **MENU** button to return to the initial screen.

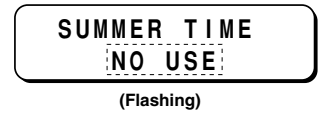
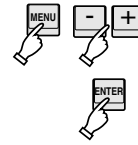
**Note:** To abort the setting, press the **MENU** button. When pressed, the setting will be cancelled and you will return to the initial screen.

# SETTING DAYLIGHT-SAVING TIME

Set the daylight-saving time (summer time) so that the clock will automatically change at the start and end of daylight-saving time.

- 1 Press the MENU button.**  
Then press the + (or -) button until “SUMMER TIME SET” is displayed and press the ENTER button.

- Set whether or not you want the time automatically adjusted for daylight-saving time.



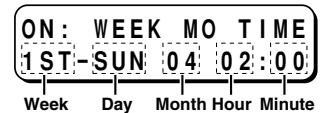
- 2 Press the + (or -) button to change the display to “USE” for automatic adjustment of the clock for daylight-saving time.**

- Switches between “NO USE” and “USE” each time pressed (there is no “auto” setting).
- If you press the ENTER button while “NO USE” is displayed, you will return to the “SUMMER TIME SET” screen.



- 3 Press the ENTER button.**

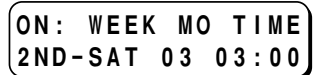
- The screen for setting the daylight-saving start time appears.



If it is necessary to change the current daylight-saving time setting, follow the procedure given below.

**Example: Daylight-saving time start: 3:00 a.m. on second Saturday of March**  
**Daylight-saving time end: 2:00 a.m. on last Sunday of October**

- Press the + (or -) button to select the field for setting the start week (e.g.: 2ND), and then press the joystick lever (▷) to move the cursor to the right.
  - The display will change from “1ST” → “2ND” → “3RD” → “4TH” → “LST” → “1ST” each time the + (or -) button is pressed.
- Press the + (or -) button to select the field for setting the start day (e.g.: SAT), and then press the joystick lever (▷) to move the cursor to the right.
  - The display will change from “SUN” → “MON” → “TUE” → “WED” → “THU” → “FRI” → “SAT” → “SUN” each time the + (or -) button is pressed.
- As in ②, set the start month (default: 03) and the start time (default: 03).
  - The month will change from “01” → “02” → “03” ... “11” → “12” → “01” each time the + (or -) button is pressed.
  - The hour will change from “01” → “02” → “03” ... “21” → “22” → “01” each time the + (or -) button is pressed.
  - The minute will change from “00” → “01” → “02” ... “58” → “59” → “00” each time the + (or -) button is pressed.



**For mistakes:** Press the joystick lever (◀ or ▶) to move the cursor, and then recheck and enter the correct setting.

- 4 Press the ENTER button.**

- The screen for setting the daylight-saving end time appears.
- If the daylight-saving time differs from the default setting displayed, set it using the same procedure given in step 3 of “Example”.



- 5 Press the ENTER button.**

- The settings are stored and the “SUMMER TIME SET” screen reappears. Press the MENU button to return to the initial screen.



**Note:** To abort the setting, press the MENU button. When pressed, the setting will be cancelled and you will return to the initial screen.

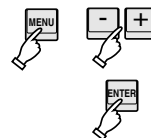
# SETTING THE SECURITY LOCKS

To prevent unwarranted use of the VSP-8000 while it is operating, the unit or the entire system can be set to a security lock by entering a secret code. There are two types of security locks: a simple lock that does not depend on the time, and a timer lock that only activates during a set time period. Also, by locking the master controller (address 0), the entire system becomes locked.

## Simple locks

- 1 Press the **MENU** button.  
Then press the **+** (or **-**) button until “**SECURITY LOCK**” is displayed and press the **ENTER** button.

- The secret code entry screen appears.



CODE = ????

- 2 Enter the secret code (e.g., 1234) with the numeric keypad.

**Note:** The secret code will be required to deactivate the lock, so be sure to write it down so it is not forgotten.

**For mistakes:** Press the **CLEAR** button and reenter the secret code.

If the secret code is lost or forgotten, contact your nearest Sanyo dealer or representative.



CODE = 1 2 3 4

- 3 Press the **ENTER** button.

- “**NO USE**” (to use the simple lock function) appears flashing.



CODE = 1 2 3 4  
TIMER : NO USE

- 4 Press the **ENTER** button again.

- The simple lock is set and the initial screen appears.

**Note:** If a button on the operation panel is pressed when the simple lock has been applied, the system will wait for a secret code to be entered and button operations will be ineffective until the secret code is entered. Also, the lock will be released when the secret code is entered. To return to the initial screen without releasing the lock, please press the **CLEAR** button or the **MENU** button.



SANYO Controller  
21:20:00

## Deactivating the lock

- 1 Press any button on the operation panel.

- The secret code entry screen appears.



CODE = ????  
LOCKED

- 2 Enter the secret code with the numeric keypad.

- The lock is deactivated.

**Note:** To reset the security lock or timer lock, return to the “**SECURITY LOCK**” screen and reenter the secret code.



CODE = 1 2 3 4  
LOCKED

## Using the security lock for the entire system

If the security lock is activated at the master controller (address 0), then the whole system becomes locked. If the whole system is locked, then “**LOCKED BY MASTER**” will be displayed in the menu screen of all the controllers except the controller with address 0.

LOCKED  
BY MASTER

### Note:

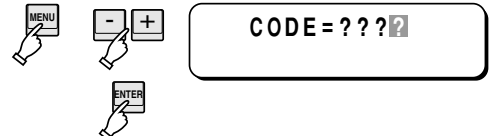
- Do not set two or more controllers to address 0. If there is more than one controller with address 0, the controller that was first set will become the master controller.
- If the entire system is locked by a controller set to address 0, then all connected devices will be locked because operation from the controller will not be possible. Please use separate locking if only individually devices need to be locked.

# SETTING THE SECURITY LOCKS

## ■ Timer lock

- 1** Press the MENU button.  
Then press the + (or -) button until "SECURITY LOCK" is displayed and press the ENTER button.

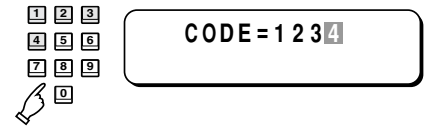
- The secret code entry screen appears.



- 2** Enter the secret code (e.g., 1234) with the numeric keypad.

**Note:** The secret code will be required to deactivate the lock, so be sure to write it down so it is not forgotten.

**For mistakes:** Press the CLEAR button and reenter the secret code.  
If the secret code is lost or forgotten, contact your nearest Sanyo dealer or representative.



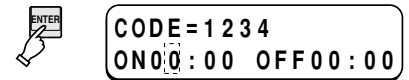
- 3** Press the ENTER button.

- "NO USE" (to use the simple lock function) appears flashing.



- 4** Press the + (or -) button to change the display to "USE" and then press the ENTER button.

- Enables the timer lock function.

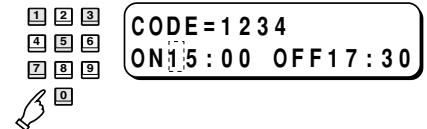


- 5** Use the numeric keypad to enter the lock start and end times.

**Example:** Setting the lock to activate at 3:00 p.m. (15:00) and deactivate at 5:30 p.m. (17:30).

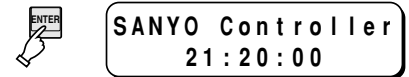
- ① Using the numeric keys, press [1, 5, 0, 0] for the start time ("ON").
- ② Using the numeric keys, press [1, 7, 3, 0] for the end time ("OFF").

**For mistakes:** Press the joystick lever (< or >) to move the cursor, and then recheck and then enter the correct setting.



- 6** Press the ENTER button.

- The initial screen reappears and the timer lock will activate at the set time.



### A: Deactivating the timer lock while it is locked

- 1** Press any button on the operation panel.

- The secret code entry screen appears.



- 2** Enter the secret code with the numeric keypad.

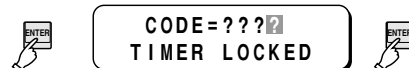
- The timer lock is deactivated and the initial screen reappears.

**Note:** The timer lock setting will remain active.

### B: Deactivating the timer lock while it is unlocked

- 1** Press the MENU button. Then press the + (or -) button to select "SECURITY LOCK" and press the ENTER button.

- The secret code entry screen appears.



- 2** Enter the secret code with the numeric keypad.

- The timer lock is deactivated and the initial screen reappears.

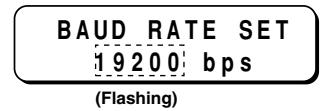
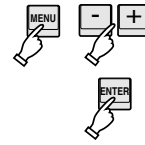
**Note:** The timer lock setting will remain active.

# SETTING THE COMMUNICATION SPEED

Set the communication speed (baud rate) at which data is transferred. The baud rate set here should match the baud rate set for devices that this unit will operate.

- 1 Press the MENU button.**  
Then press the + (or -) button until "BAUD RATE SET" is displayed and press the ENTER button.

- The baud rate setting screen appears.



- 2 Press the + (or -) button to select the desired communication speed (baud rate).**

- The display will change from "19200" → "2400" → "4800" → "9600" → "19200" (units: bps) each time pressed.



- 3 Press the ENTER button.**

- Set the baud rate to return to the "BAUD RATE SET" screen.



Press the **MENU** button to return to the initial screen.

**Note:** Communications will be interrupted if the baud rate changes after communications have been established with connected devices. In this case, return the settings to the original values.

# SETTING THE TITLE

Set a title (i.e., name) for each device on the system.

- 1 Press the MENU button.**  
Then press the + (or -) button until “TITLE SET” is displayed and press the ENTER button.

- The address entry screen appears.



- 2 Press the MODE button and select the device (VR) that you will give a title.**

The display will change from “MX” (multiplexer) → “VR” (timelapse VCR) → “CM” (camera) → “DR” (digital video recorder) → “MX” each time pressed.

**Note:** The device selected here will be stored in the memory and next time that selected device will be displayed first in the device selection item.

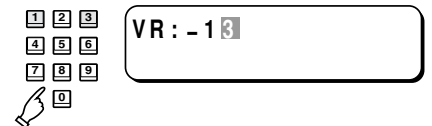


- 3 Example: Use the numeric keypad to enter the address (13) of the device.**

- For address 13, press [1][3].

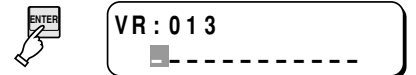
**Note:** Addresses can be set up to the number 127. If you enter an address of 128 or higher, an error will occur.

VR: -- Error



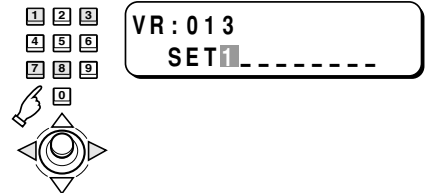
- 4 Press the ENTER button.**

- The title entry screen appears.



- 5 Example: Enter the title “SET1” for the device.**

- By repeatedly pressing a numeric key, you can scroll through the various alphanumeric characters and symbols.
- Press [7] five times (for “S”), and then press the joystick lever (▷) to move the cursor to the right.
  - Press [3] three times (for “E”), and then press the joystick lever (▷) to move the cursor to the right.
  - Press [8] two times (for “T”), and then press the joystick lever (▷) to move the cursor to the right.
  - Press [1] once (for “1”).



Numeric key	Title display	Numeric key	Title display
1	1 → █ → 1	6 MNO	6 → M → N → O → █ → 6
2 ABC	2 → A → B → C → █ → 2	7 PQRS	7 → P → Q → R → S → █ → 7
3 DEF	3 → D → E → F → █ → 3	8 TUV	8 → U → V → █ → 8
4 GHI	4 → G → H → I → █ → 4	9 WXYZ	9 → W → X → Y → Z → █ → 9
5 JKL	5 → J → K → L → █ → 5	0 -/:	0 → - → / → : → █ → 0

**For mistakes:** Press the joystick lever (◁ or ▷) to move the cursor, and then recheck and then enter the correct setting.

- 6 Press the ENTER button.**

- The address entry screen for the next address appears.



Press the MENU button to return to the initial screen.

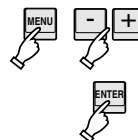
To confirm the title, refer to pages: P20, P25, P29, P34

# CHECKING THE GROUP SETTINGS

When you set the groups, each device stores the information regarding which group it belongs to in their memory. When you perform a group check, the group information is read from each device connected via the RS-485 interface and the group settings are renewed. For more information regarding the group settings, refer to **GROUP SETTING** on page 38.

- 1 Press the MENU button.**  
Then press the + (or -) button until “GROUP CHECK” is displayed and press the ENTER button.

- The group check screen appears.



GROUP CHECK ?  
OK : ENTER NO : CLR

**Note:** Press the **CLEAR** button to return to the “GROUP CHECK” screen.

- 2 Press the ENTER button.**

- Performs the group check. During the check, the cursor will move to the right.
- When the group check is completed, the data gathered is stored in memory and the “GROUP CHECK” screen reappears.



GROUP CHECK  
██████ →

Press the **MENU** button to return to the initial screen.

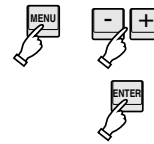
**Note:**

- If group settings were changed at another controller, always perform the group check and save the group settings.
- If a device belonging to group has its address changed, is removed from the system, or is changed to another group, then be sure to perform the group check and save the changed group settings.
- Do not operate a controller while one controller is performing a group check.

# SETTING THE BUZZER

The system controller's internal buzzer can be set to sound at times such as when an alarm is received or the operating status changes in any of the connected devices.

- 1 Press the MENU button.**  
**Then press the + (or -) button until "BUZZER SET" is displayed and press the ENTER button.**



BUZZER SET

- The buzzer setting screen appears.
- The initial settings are as follows:  
 KEY IN: OFF  
 CAUTION: ON  
 STATUS IN: OFF  
 ALARM IN: ON

- 2 Press the ENTER button.**

- The "KEY IN" and "CAUTION" buzzer setting screen appears.



KEY IN :OFF  
 CAUTION :ON

Setting item	Buzzer operation
KEY IN	The buzzer sounds when a button is pressed on the operation panel.
CAUTION	If any connection is invalid at the time the system is activated, for reasons such as an address set above 128 for a connected device, or if communications are not established with a connected device having no registered address, the buzzer will sound until any key on the controller is pressed. The buzzer will not sound for problems such as missing responses from the connected device; in such cases, only a "No OPE." message will appear.

- 3 To make the buzzer sound, press the + (or -) button to change the "KEY IN" setting to "ON", and then press the ENTER button.**

- The setting changes in the order OFF → ON → OFF each time a button is pressed.
- To leave the buzzer setting unchanged, simply press the ENTER button.
- The "CAUTION" setting will then flash.

**For mistakes:** Press the CLEAR button to return to the previous setting item.



KEY IN :ON  
 CAUTION :ON

- 4 To make the buzzer sound, press the + (or -) button to change the "CAUTION" setting to "OFF", and then press the ENTER button.**

- The "STATUS IN" and "ALARM IN" buzzer setting screen appears.



KEY IN :ON  
 CAUTION :OFF

- 5 Follow the same procedure in steps 3 and 4 to make the buzzer settings for "STATUS IN" and "ALARM IN".**

- When you press the ENTER button at the "ALARM IN" setting, the display returns to the buzzer setting screen.



STATUS IN :OFF  
 ALARM IN :ON

Setting item	Buzzer operation
STATUS IN	When an operation error occurs in a connected device, the buzzer sounds for 5 seconds.
ALARM IN	When an alarm is received from a connected device, the buzzer sounds continuously until a button is pressed on the system controller.

Press the MENU button to return to the initial screen.



# UPLOADING AND DOWNLOADING MENUS

You can upload menu data from a specified device that is connected to the system controller, and also download to all devices of the same type or from devices in a group.

## Attention!

This feature will allow the menu settings of all connected devices to be set at the same time.

**Note:** Some devices may not be compliant with the upload/download feature. Check the instruction manuals of each device for details.

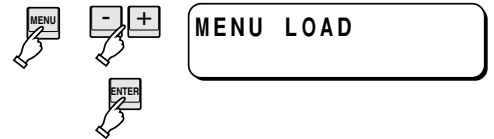
**Example: The upload/download compliant menu for multiplexer MPX-CD163/CD93.**

1. LANGUAGE setting
2. SUMMER TIME/TIMER setting
3. VCR SET menu (cancels settings for PROGRAM REC)
4. ALARM SET menu (cancels DURATION settings and individual sensor settings)

## Menu Data Upload

- 1 Press the MENU button. Then press the + (or -) button until "MENU LOAD" is displayed and press the ENTER button.**

- The menu upload setting screen appears.



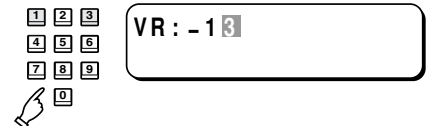
- 2 Press the MODE button to select the device (e.g., VR) to upload menu data from.**

The display will change from "MX" (multiplexer) → "VR" (timelapse VCR) → "CM" (camera) → "DR" (digital video recorder) → "MX" each time pressed.

**Note:** The device selected here will be stored in the memory and next time that selected device will be displayed first in the device selection item.



- 3 Enter the address (e.g., 13) with the numeric keypad.**



- 4 Press the ENTER button.**

- "M. UPLOAD" appears, and then the data is uploaded.



- 5 When the "M. UPLOAD" display disappears, the mode changes to download standby mode.**



## [A] Downloading to all devices

- 1 In download standby mode, press the ENTER button.**

- "M. DOWNLOAD" appears, and then the menu data is downloaded to all timelapse VCRs that are connected.
- Press the CLEAR button to cancel the download.



- 2 When "Complete" appears, the download is finished.**

Press the MENU button to return to the initial screen.



# UPLOADING AND DOWNLOADING MENUS

## [B] Downloading to a specified group

- 1** In download standby mode, press the + (or -) button to change the “ALL” display to “GR”.



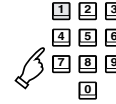
VR ALL  
OK:ENTER NO:CLR



GR: --

- 2** Enter the group number (e.g., 1) with the numeric keypad.

- The system controller changes to download standby mode for all timelapse VCRs in Group 1.



GR: 01  
OK:ENTER NO:CLR

- 3** Press the ENTER button.

- “M. DOWNLOAD” appears, and then the menu data is downloaded to the timelapse VCRs in Group 1.
- Press the **CLEAR** button to cancel the download.



GR: 01  
M. DOWNLOAD

- 4** When “Complete” appears, the download is finished.

MENU DOWNLOAD  
Complete

Press the **MENU** button to return to the initial screen.

# DOWNLOADING THE DATE AND TIME

You can download the date and time setting data from the system controller to all devices or a specified group of devices that are connected to the system controller.

## Attention!

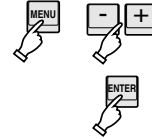
This feature will allow time settings of all connected devices to be set at the same time.

**Note:** Some models do not have this feature.

## [A] Downloading to all devices

- 1 Press the **MENU** button.  
Then press the **+** (or **-**) button until “**CLOCK DOWN LOAD**” is displayed and press the **ENTER** button.

- The system controller changes to download standby mode.



ALL  
OK:ENTER NO:CLR

**Note:** If no date or time has been set, “**NO TIME**” appears.

No TIME

- 2 Press the **ENTER** button. The date appears.

- Press the **CLEAR** button to return to the “**CLCOK DOWN LOAD**” screen.



01/04/25  
OK:ENTER NO:CLR

- 3 Press the **ENTER** button. The time appears.

- If you press the **CLEAR** button, the system controller returns to download standby mode.



15:00:02  
OK:ENTER NO:CLR

- 4 Press the **ENTER** button.

- Date and time data is downloaded to all devices, the display “**CLOCK DOWN LOAD**” will return.
- If you press the **CLEAR** button, the display returns to the date display.



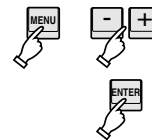
CLOCK DOWN LOAD

Press the **MENU** button to return to the initial screen.

## [B] Downloading to a specified group

- 1 Press the **MENU** button.  
Then press the **+** (or **-**) button until “**CLOCK DOWN LOAD**” is displayed and press the **ENTER** button.

- The system controller changes to download standby mode.



ALL  
OK:ENTER NO:CLR

**Note:** If no date or time has been set, “**NO TIME**” appears.

No TIME

- 2 Press the **+** (or **-**) button to change the “**ALL**” display to “**GR**”.



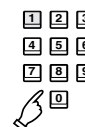
ALL  
OK:ENTER NO:CLR



GR:--

- 3 Enter the group number (e.g., 1) with the numeric keypad.

- The system controller changes to standby mode for downloading to the devices in Group 1.



GR:01  
OK:ENTER NO:CLR

# DOWNLOADING THE DATE AND TIME

## 4 Press the ENTER button. The date appears.

- Press the **CLEAR** button to return to the “**CLCOK DOWN LOAD**” screen.



01 / 04 / 25  
OK:ENTER NO:CLR

## 5 Press the ENTER button. The time appears.

- If you press the **CLEAR** button, the system controller returns to download standby mode.



15:00:02  
OK:ENTER NO:CLR

## 6 Press the ENTER button.

- Date and time data is downloaded to devices of Group 1, the display “**CLOCK DOWN LOAD**” will return.
- If you press the **CLEAR** button, the display returns to the date display.



CLOCK DOWN LOAD

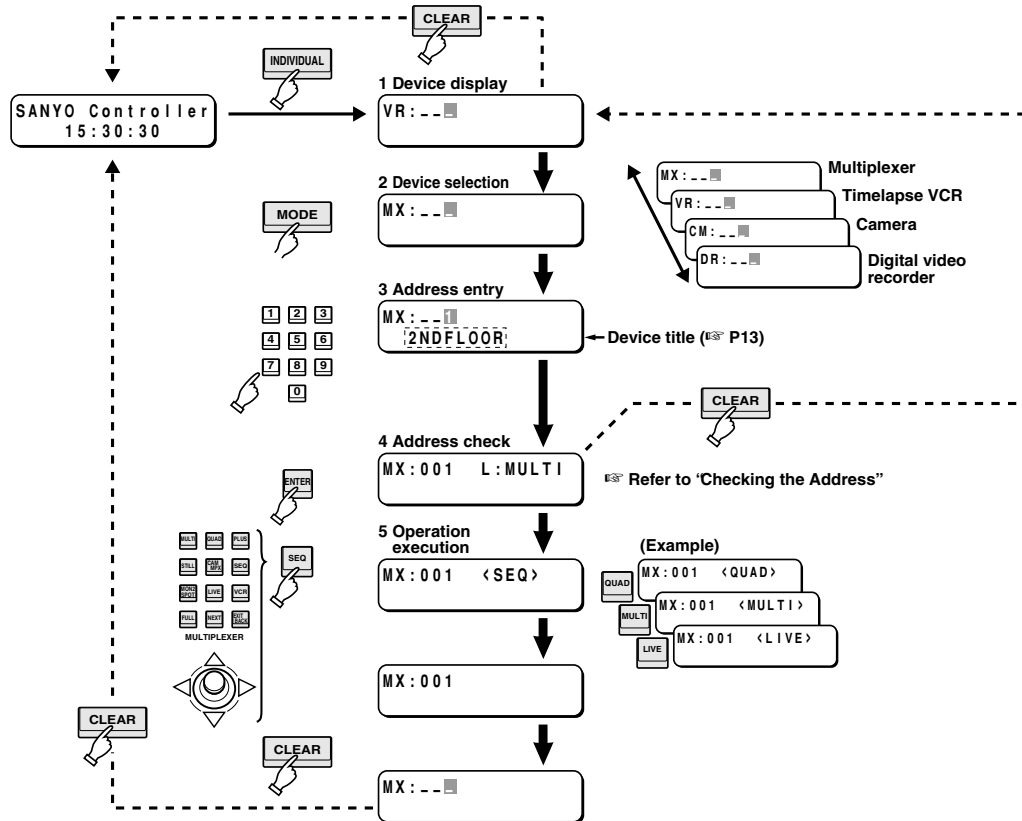
Press the **MENU** button to return to the initial screen.

# MULTIPLEXER OPERATION

The VSP-8000 enables two methods of multiplexer operation. One is performing direct operation using the command buttons on the VSP-8000 [A] and the other is by using the call-up commands to bring up commands to the menu screen [B]. Some multiplexers are equipped with a matrix switching function (for spot monitor screen setting), and some are not. The system controller automatically detects which type of multiplexer is connected.

## [A] Operation using the command buttons

Use the procedure outlined below to operate the multiplexers.

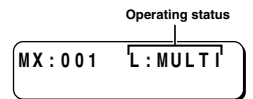


## Operating procedure

1. Press the **INDIVIDUAL** button.
2. Press the **MODE** button to change the displayed device to "MX".
3. Enter the address with the numeric keypad.
4. Press the **ENTER** button to check the address status.
  - The operating status of the multiplexer appears in the menu screen. (Refer to **Checking the address.**)
5. Press the desired command buttons located in the MULTIPLEXER section of your VSP-8000.
  - For an explanation of the multiplexer command buttons, refer to the **Command button operation list** on page 21.

## Checking the address

When the address is checked in step 4, the operating status of the multiplexer appears in the menu screen.



Status	Operating condition
L: MULTI	Live picture mode, multi-screen (9-screen/16-screen full screen)
V: MULTI	Video playback mode, multi-screen (9-screen/16-screen full screen)
L: QUAD	Live picture mode, quad-screen
L: QUAD: S	Live picture mode, quad-screen, sequential display
L: PLUS 16	Live picture mode, plus screen, 16-screen full screen
L: PLUS: S	Live picture mode, plus screen, sequential display
L: FULL: S	Live picture mode, full screen sequential display
L: FULL: 16	Live picture mode, 16-channel full screen
M2SET: 16*1	16-channel full screen for monitor 2
M2SET: S*1	Sequential display for monitor 2
SPOT2:01*2	1-channel full screen for spot monitor 2
SPOT2:S*2	Sequential display for spot monitor 2
MENU	Menu screen
SERIES	The multiplexer is digital and if it is connected in series, the main monitor display is activated by the <b>LIVE</b> button on the device to be displayed.


If a "V" appears instead of an "L", the mode is video or digital video recorder playback mode.

\*1: When matrix switching function is not available

\*2: When matrix switching function is available

# MULTIPLEXER OPERATION

## Command button operation list

The  in the table tells you the corresponding section below for reference. Monitor 1 indicates the main monitor when a matrix switching function is available.

VSP-8000 command button	Operation	Menu screen
<b>MULTI</b>	Splits monitor 1 into multiple screens (16-screen/9-screen screen)	<b>MX : 001</b> <MULTI>
<b>QUAD</b>	<ul style="list-style-type: none"> <li>Splits monitor 1 into four screens</li> <li>Switches the quad-screen</li> </ul>	<b>MX : 001</b> <QUAD>
<b>PLUS</b>	<ul style="list-style-type: none"> <li>Displays the plus screen on the monitor 1</li> <li>Switches channel of monitor 1 plus screen (A)</li> <li>Set sequential mode for monitor 1 plus screen (B)</li> </ul>	<b>MX : 001</b> <PLUS>
<b>STILL</b>	Still image screen of monitor 1	<b>MX : 001</b> <STILL>
<b>CAM/MPX *1</b>	Switches Camera/Multiplexer operation.	
<b>SEQ</b>	Sequential display for selected monitor screen	<b>MX : 001</b> <SEQ>
<b>MON2/SPOT*2</b>	<ul style="list-style-type: none"> <li>Displays the specified channel on monitor 2 (C)</li> <li>Switches the screen of monitor 2 automatically (D)</li> </ul>	<b>MX : 001</b> <MON2>
<b>MON2/SPOT*1</b>	<ul style="list-style-type: none"> <li>Displays the specified channel on spot monitors 1 to 4 (E)</li> <li>Switches spot monitor 1 to 4 screens automatically (F)</li> </ul>	<b>MX : 001</b> <SPOT_>
<b>LIVE</b>	<ul style="list-style-type: none"> <li>Sets live video mode</li> <li>The main monitor appears when connected in series</li> </ul>	<b>MX : 001</b> <LIVE>
<b>VCR</b>	Sets video playback mode (G)	<b>MX : 001</b> <VCR>
<b>FULL</b>	Sets screen 1 to specified channel (H)	<b>MX : 001</b> <CH_>
<b>NEXT</b>	Switches from menu screen to submenu	<b>MX : 001</b> <NEXT>
<b>EXIT/BACK</b>	<ul style="list-style-type: none"> <li>Returns display to previous menu.</li> <li>Exits menu screen *2</li> </ul>	<b>MX : 001</b> <EXIT>
<b>MENU</b>	<ul style="list-style-type: none"> <li>Brings up menu screen</li> <li>Exits menu screen *1</li> <li>Switches menu screen *2</li> </ul>	<b>MX : 001</b> <MENU>
<b>Joystick lever</b>	Moves cursor (left, right, up, and down)	<b>MX : 001</b> <LEFT> <b>MX : 001</b> <RIGHT> <b>MX : 001</b> <UP> <b>MX : 001</b> <DOWN>
<b>-, +</b>	Changes selection settings	<b>MX : 001</b> <+> <b>MX : 001</b> <->

\*1: When matrix switching function is available (main monitor and spot monitor terminals fitted) \*2: When matrix switching function is not available

- Note:**
- If the multiplexer security lock is to be applied/released with the menu screen display, the controller operation will involve operating the **FULL** button, numeric keypad and **ENTER** buttons.
  - If models with and without the matrix switcher function are connected at the same time in a group operation, the equipment will behave differently when the **MON2/SPOT** button is operated.
  - The command display in the menu screen section will appear only on MON2.

## Operations

### A: Switches the channel of the monitor 1 plus screen

- Press the **PLUS** button.  
Press the **PLUS** button again to cancel.
- Press the **FULL** button.
- Specify the channel with the numeric keypad.  
Ex.: 4 → [4], 16 → [1] [6]
- Press the **ENTER** button.

### B: Set sequential mode for monitor 1 plus screen

- Press the **PLUS** button.  
Press the **PLUS** button again to cancel.
- Press the **SEQ** button.

### C: Sets screen 1 to the specified channel of monitor 2

- Press the **MON2/SPOT** button.
- Press the **FULL** button.
- Specify the channel with the numeric keypad.
- Press the **ENTER** button.
- Press the **MON2/SPOT** button again to complete the setting.

### D: Sequential display for monitor 2 screen

- Press the **MON2/SPOT** button.
- Press the **SEQ** button.
- Press the **MON2/SPOT** button again to complete the setting.

### E: Sets full screen to specified channel of spot monitor 1

- Press the **MON2/SPOT** button.
- Specify spot monitor 1 with the numeric keypad.  
Ex.: 1 → [1]
- Press the **ENTER** button.
- Press the **FULL** button.
- Specify the channel with the numeric keypad.
- Press the **ENTER** button.
- Press the **MON2/SPOT** button again to complete the setting for spot monitor 1.

### F: Sequential display for spot monitor 1

- Press the **MON2/SPOT** button.
- Specify spot monitor 1 with the numeric keypad.  
Ex.: 1 → [1]
- Press the **ENTER** button.
- Press the **SEQ** button.
- Press the **MON2/SPOT** button again to complete the setting for spot monitor 1.

### G: Sets video playback mode

- Playback the video.
- Press the **VCR** button.

### H: Sets screen 1 to the specified channel

- Press the **FULL** button.
- Specify the channel with the numeric keypad.  
Ex.: 4 → [4]

**MX : 001** <CH- [4]>

- Press the **ENTER** button.

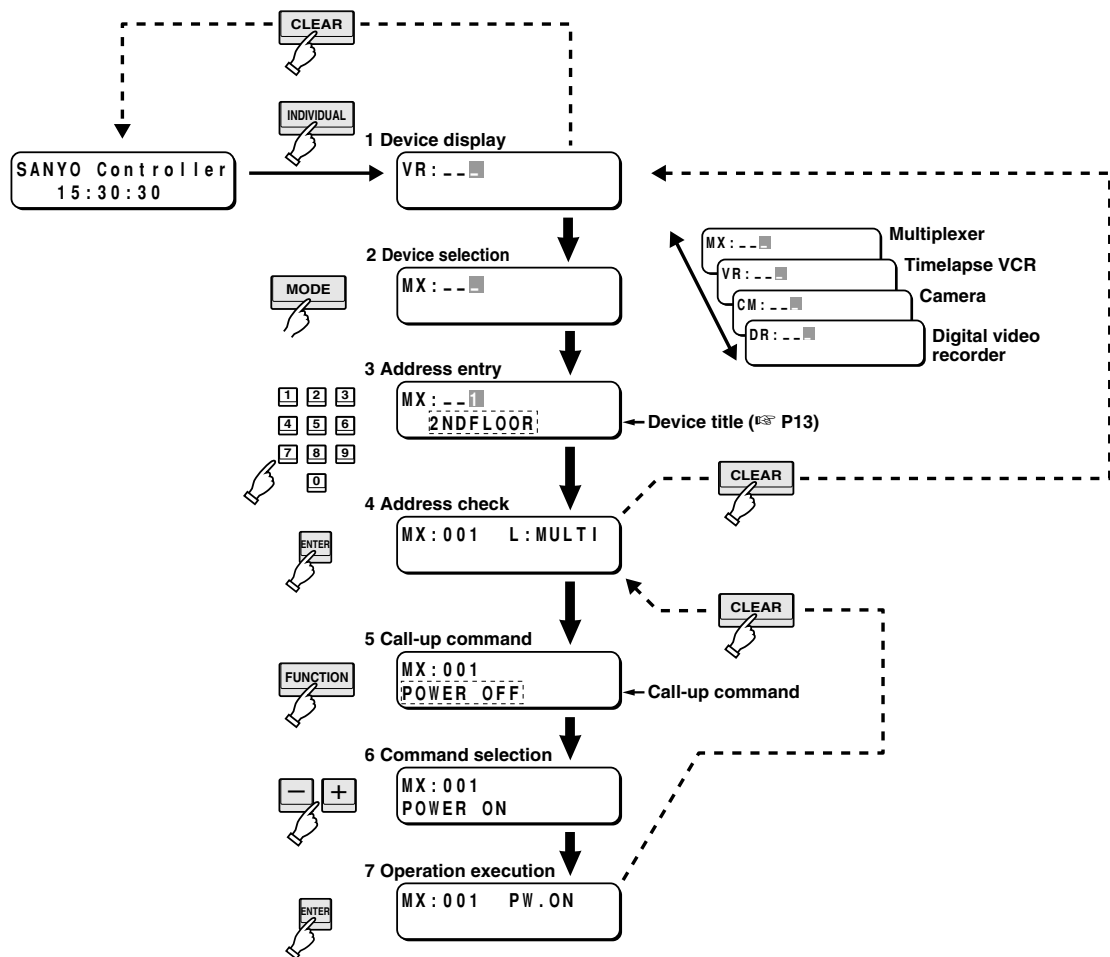
**MX : 001** <CH04>

**Note:** While spot monitor is selected, you must complete the selection of spot monitors 1 to 4 or else other button operations will not be accepted until you return to the main monitor by pressing the **MON2/SPOT** button twice.

# MULTIPLEXER OPERATION

## [B] Operation using the call-up commands

Use the procedure outlined below to operate the multiplexers.



## Operating procedure

1. Press the **INDIVIDUAL** button.
2. Press the **MODE** button to change the displayed device to "MX".
3. Enter the address with the numeric keypad.
4. Press the **ENTER** button to check the address status.
  - The operating status of the multiplexer appears in the menu screen.
5. Press the **FUNCTION** button to bring up the commands.
  - The command name is displayed flashing.
6. Press the + (or -) button to select the desired command.
  - For an explanation of the multiplexer call-up commands, refer to the **Call-up command operation list**
7. Press the **ENTER** button to execute the command.

## Call-up command operation list

The  $\text{P13}$  in the table tells you the corresponding section below for reference.

Call-up command	Operation	Menu screen
<b>CLOCK ADJUST</b>	Sets the minutes and seconds of the clock to 00 ( $\text{P13A}$ )	
<b>MENU RESET</b>	Returns the menu screen settings to the initial values	<b>MX:001 MENU RST</b>
<b>POWER OFF</b>	Turns off multiplexer	<b>MX:001 PW.OFF</b>
<b>POWER ON</b>	Turns on multiplexer	<b>MX:001 PW.ON</b>
<b>S.LOCK OFF *</b>	Deactivates the security lock	<b>MX:001 S.L.OFF</b>
<b>S.LOCK ON *</b>	Activates the security lock	<b>MX:001 S.L.ON</b>
<b>ZOOM</b>	Zooms image in one screen of monitor 1/main monitor.	<b>MX:001 ZOOM</b>

\* For models without a password type security lock function

## Operations

### A: Sets the minutes and seconds of the clock to 00

Ex.: Set clock to 14:00

Works over the range from 13:30:00 to 14:29:59.

1. Press the + (or -) button to select "CLOCK ADJUST".
2. Press the **ENTER** button.

MX:001 CLK ADJ.  
PRESS: [ENTER]

3. Press the **ENTER** button again.

MX:001 CLK ADJ.

**Note:** If the connected device does not have command functions, then "No OPE." will appear in the menu screen.

# MULTIPLEXER OPERATION

## [C] Operating cameras using the multiplexer

You can use a multiplexer that is equipped with a matrix switching function to operate cameras that are connected to the multiplexer. Use the procedure outlined below to operate the multiplexers.

### ■ Operating procedure

**1** Press the **INDIVIDUAL** button.



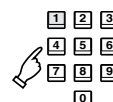
VR : --

**2** Press the **MODE** button to change the displayed device to "MX".



MX : --

**3** Enter the address with the numeric keypad.



MX : -- 1

**4** Press the **ENTER** button to check the address status.



MX : 001 L : MULTI

**5** Press the **CAM/MPX** button.



MX : 001C  
SPOT1 CH : 05

- Operation switches to camera control mode, indicated by the appearance of "C" after the address. Currently selected monitor and camera numbers also appear.
- Pressing the CAM/MPX button again will return operation to multiplexer control mode, and the "C" after the address will disappear.

**Note:** The initial setting for the spot monitor is the automatic switching display (SEQ). In a case of camera control by spot monitor, please specify the camera channel that is to be controlled by the spot monitor. Similarly, in a case of camera control by main monitor, please use single screen display for the camera channel that is to be controlled.

When operating in camera control mode, one of the following screens may be displayed, depending on the camera selected.

**[A] If a camera not manufactured by Sanyo is selected (☞ P24)**

MX : 001C <OTHER>  
SPOT1 CH : 05

**[B] If camera control is not possible (☞ 24)**

MX : 001 UN CON  
SPOT1

**[C] If camera control permission is refused (☞ 24)**

MX : 001 OFF CON  
SPOT1

**6** Remotely operate cameras with the **CAMERA** command buttons.

- For an explanation of the camera command buttons, refer to the Command button operation list on page 30 of the Camera Operation section. (☞ 30)



MX : 001C <ZOOM W>  
SPOT1 CH : 05

**Note:** When using camera control with the main monitor selected, pressing MULTIPLEXER command buttons **MULTI**, **QUAD**, **PLUS**, **SEQ**, or **VCR** will switch the display to those corresponding functions. While you can resume control of the camera control under any of those conditions, you cannot press the **CAM/MPX** button to switch to multiplexer mode then return to camera control mode by pressing the **CAM/MPX** a second time. In such cases, press the **FULL** button and reset the camera. Follow the same procedure to reset after switching to live image mode from VCR recording mode. When controlling the camera with a spot monitor selected, only the **SEQ** button will function in the manner described above.



# MULTIPLEXER OPERATION

## Switching monitors for operational control

**1** Press the CAM/MPX button to return to multiplexer control mode.



MX:001 SPOT1:05

**2** Press the MON2/SPOT button.

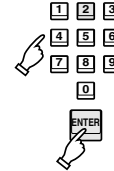
- The monitor number entry screen will appear.



MX:001 <SPOT: [ ]>

**3** Enter the monitor number with the numeric keypad and press ENTER button. (Example: 2)

**Note:** The camera to be controlled is being switched automatically to the camera whose number has been set in the selected spot monitor.



MX:001 SPOT2:02

**4** Press the CAM/MPX button to switch to camera control mode.



MX:001C  
SPOT2 CH:02

## Switching the camera to be controlled

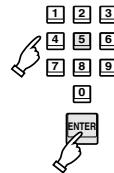
**1** Press the FULL button while the system is in camera control mode.

- The camera number entry screen will appear.



MX:001C <CH- [ ]>

**2** Enter the camera number with the numeric keypad and press ENTER button. (Example: 5)



MX:001C  
SPOT2 CH:05

### [A] If a camera not manufactured by Sanyo is selected

"OTHER" will appear in the display if the selected camera is not manufactured by Sanyo. Pressing command buttons of the CAMERA keypad will not change display of this message.

MX:001C <OTHER>  
SPOT1 CH:05

### [B] If camera control is not possible

"UN CON" will appear in the display if camera control is not possible due to automatic switching of the selected monitor or an active alarm condition. Please refer to "Switching the camera to be controlled".

MX:001C UN CON  
SPOT1

### [C] If camera control permission is refused

If the selected camera is not connected to the multiplexer, "OFF CON" will appear indicating that camera control is prohibited. Please refer to "Switching the camera to be controlled".

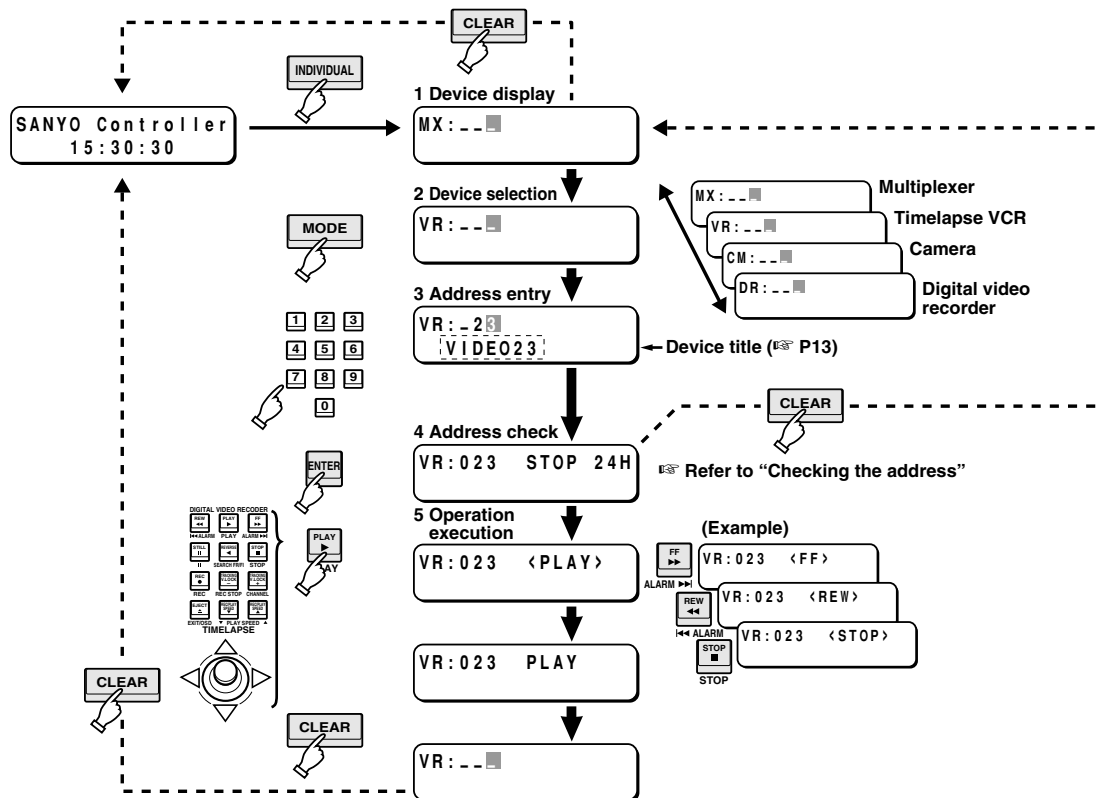
MX:001 OFF CON  
SPOT1

# TIMELAPSE VCR OPERATION

The VSP-8000 enables two methods of timelapse VCR operation. One is by performing direct operations using the command buttons on the VSP-8000 [A] and the other is by using the call-up commands to bring up commands to the menu screen [B].

## [A] Operation using the command buttons

Use the procedure outlined below to operate the timelapse VCRs.



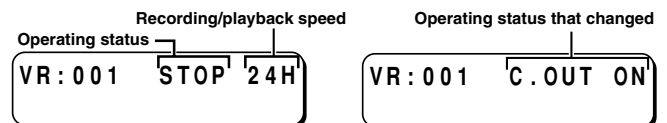
### ■ Operating procedure

1. Press the **INDIVIDUAL** button.
2. Press the **MODE** button to change the displayed device to "VR".
3. Enter the address with the numeric keypad.
4. Press the **ENTER** button to check the address.
  - The operating status of the timelapse VCR appears in the menu screen. (Refer to **Checking the address.**)
5. Press the desired command buttons located in the **TIMELAPSE** section of your VSP-8000.
  - For an explanation of the timelapse VCR command buttons, refer to the **Command button operation list** on page 26.

To abort the operation, press the **STOP** button of the timelapse VCR.

### ■ Checking the address

When the address is checked in step 4, the operating status and recording/playback speeds are displayed in the menu screen. If the operating status changes, only the status that changes is displayed.



Status	Description	Status	Description	Status	Description
<b>C.OUT OF</b>	Eject cassette during standby	<b>PLAY</b>	Playing back	<b>STBY</b>	Standby
<b>COUT/ C.OUT ON</b>	Eject cassette	<b>R.F.ADV</b>	Reverse advancing	<b>STL/ STILL</b>	Pausing
<b>CUE</b>	Cueing	<b>REC</b>	Recording	<b>STOP</b>	Stopped
<b>F.ADV</b>	Forward advancing	<b>REW</b>	Rewinding	<b>TSTB/ TM STBY</b>	Timer recording standby
<b>FF</b>	Fast-forwarding	<b>RPLY/ RVS.PLAY</b>	Reverse playing back	<b>T.M.CHK</b>	Tape management check
<b>PAU/ PAUSE</b>	Recording paused	<b>RVW</b>	Reviewing	<b>THREAD</b>	Thread check

# TIMELAPSE VCR OPERATION

## Command button operation list

The  in the table tells you the corresponding section below for reference.

**Note:** Please note that the menu operation differs according to the timelapse VCR model.

Command button	Operation	Menu screen
REW ◀◀	• Rewinds the tape	VR:001 <REW>
	• Rewinds the tape during playback	VR:001 <RVW>
	• Reverse advances by frame	VR:001 <REW>
PLAY ▶	• Plays back the tape	VR:001 <PLAY>
	• Enables checking of recording while recording	
FF ▶▶	• Fast-forwards the tape	VR:001 <FF>
	• Fast-forwards the tape during playback	VR:001 <CUE>
	• Advances by frame	VR:001 <FF>
REC ●	Performs recording <span style="float:right">(VCR A)</span>	VR:001 REC OK? OK:ENTER NO:CLR
REVERSE ◀	Plays back tape in reverse	VR:001 <R.PLAY>
STOP ■	Stops tape	VR:001 <STOP>
STILL ■■	• Still image during playback	VR:001 <STILL>
	• Pause image during recording	
TRACKING V.LOCK – TRACKING V.LOCK +	• Adjusts tracking and reduces noise <span style="float:right">(VCR B)</span>	VR:001 <TR UP>
	• Adjust vertical synchronicity and reduces vertical wavering during stills <span style="float:right">(VCR C)</span>	VR:001 <TR DWN>
	• Returns tracking to initial value <span style="float:right">(VCR D)</span>	
EJECT ▲	Ejects tape <span style="float:right">(VCR E)</span>	VR:001 EJECT OK? OK:ENTER NO:CLR
REC/PLAY SPEED ▼	Decreases menu screen settings and recording/playback speed	VR:001 <SPD DN>
REC/PLAY SPEED ▲	Increases menu screen settings and recording/playback speed	VR:001 <SPD UP>
MENU	• Brings up the menu screen, or selects the menu screen	VR:001 <MENU>
	• When the main menu is displayed, cancels the menu screen and returns to the monitor screen	
Joystick lever (▷)	• Confirms the menu screen	VR:001 <RIGHT>
	• Moves the cursor to the right in the menu screen, also moves date/time screen the to right	
Joystick lever (▽)	• Cancels confirmation of the menu screen	VR:001 <DOWN>
	• Returns display to previous menu	
	• Moves the cursor downward in the menu screen (may not be applicable with some devices), also moves display of date and time downward.	
+	• Moves the cursor downward in the menu screen (may not be applicable on some models)	
	• Edits set values	
–	• Moves the cursor upward in the menu screen (may not be applicable on some models)	
	• Edits set values	
Joystick lever (◁)	Has the same effect as moving the joystick lever down (may not be applicable on some models)	
Joystick lever (△)	Has the same effect as moving the joystick lever to the right (may not be applicable on some models)	

## Operations

### A: Performs recording

- Press REC button.  
To prevent mistaken operations at the controller, the confirmation screen shown below appears.

VR:001 REC OK?  
OK:ENTER NO:CLR

- Press ENTER button.

VR:001 <REC>

### B: Adjusts tracking and reduces noise

- During playback, press the TRACKING V.LOCK + button a number of times.
- If the video noise persists, adjust with the TRACKING V.LOCK – button.

### C: Adjust vertical synchronicity and reduces vertical wavering during stills

- While paused, press the TRACKING V.LOCK + button a number of times.
- If the vertical wavering persists, adjust with the TRACKING V.LOCK – button.

### D: Returns tracking to initial value

Press the TRACKING V.LOCK + button while holding down the TRACKING V.LOCK – button.

VR:001 <TR CTR>

### E: Ejects tape

- Press the EJECT button.

VR:001 EJECT OK?  
OK:ENTER NO:CLR

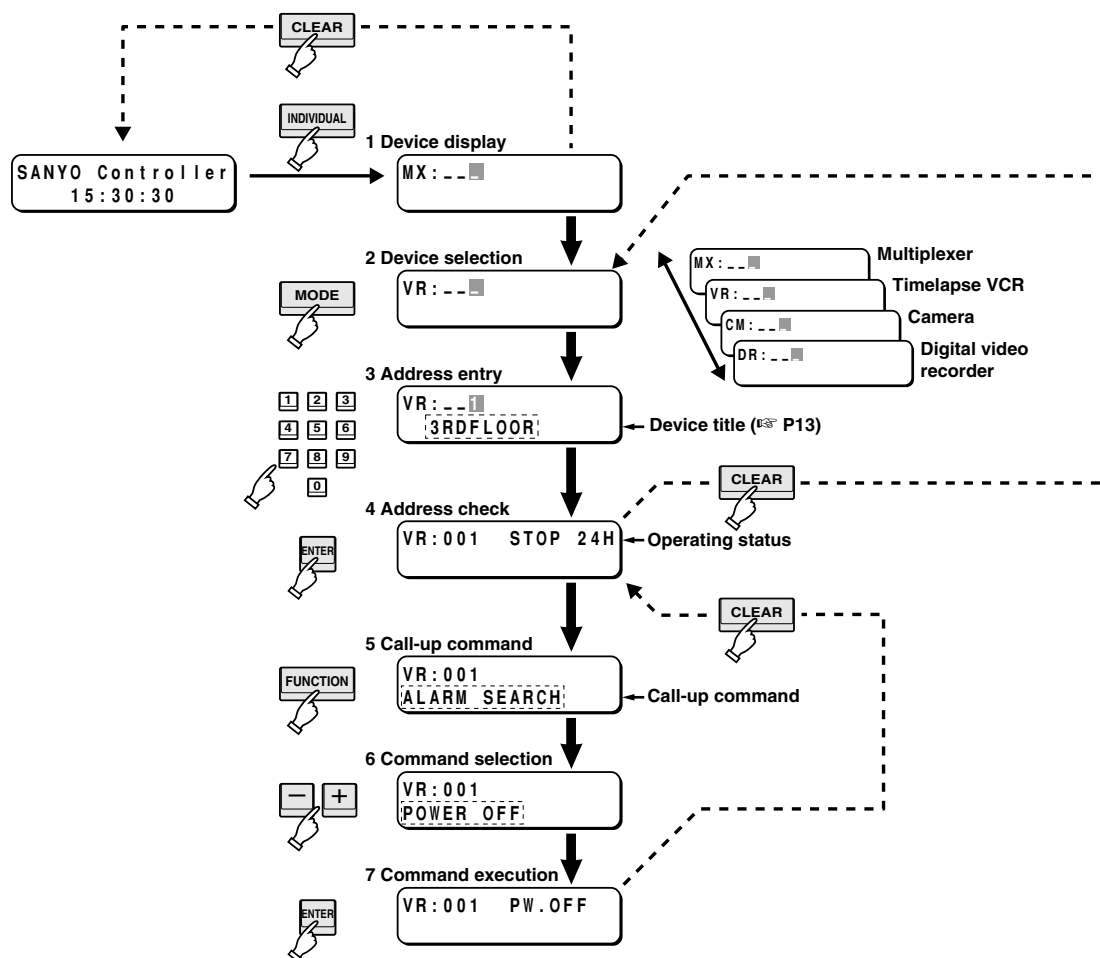
- Press the ENTER button.

VR:001 <EJECT>

# TIMELAPSE VCR OPERATION

## [B] Operation using the call-up commands

Use the procedure outlined below to operate the timelapse VCRs.



## ■ Operating procedure









1. Press the **INDIVIDUAL** button.
2. Press the **MODE** button to change the displayed device to "VR".
3. Enter the address with the numeric keypad.
4. Press the **ENTER** button to check the address.
  - The operating status of the timelapse VCR appears in the menu screen.
5. Press the **FUNCTION** button to bring up the commands.
  - The command name is displayed flashing.
  - For an explanation of the timelapse VCR call-up commands, refer to the **Call-up command operation list** on page 28.
6. Press the + (or -) button to select the desired command.
7. Press the **ENTER** button to execute the command.

**To abort the operation, press the STOP button.**

# TIMELAPSE VCR OPERATION

## Call-up command operation list

The  in the table tells you the corresponding section below for reference.

Call-up command	Operation	Menu screen
<b>ALARM SCAN</b>	Plays back first 5 seconds of alarm recordings  <b>A</b> *	
<b>ALARM SEARCH</b>	Searches for specified alarm recording and still image  <b>B</b> *	
<b>AUDIO/SEARCH</b>	<ul style="list-style-type: none"> <li>Turns on/off audio for playback during 12/24-hour mode</li> <li>Each time this command is executed while the tape is stopped, the mode switches from Alarm Search mode to Alarm Scan mode to Time/Date Search mode to Cancel Search mode</li> <li>Cancels the menu screen while the menu screen is displayed and returns the display to the monitor screen</li> </ul>	VR: 001 AUD / SEAR
<b>CLOCK ADJUST</b>	Sets minutes and seconds of clock to 00  <b>C</b>	
<b>COUNT CODE</b>	Displays the tape counter *	VR: 001 COUNT. -1:23:45
<b>COUNTER MEMORY</b>	Stores counter value of scene you want to see	VR: 001 C. MEMORY
<b>COUNTER RESET</b>	Sets counter of scene you want to see to 00:00:00	VR: 001 C. RESET
<b>HEAD TIME</b>	Calculates video head cumulative time of use (hours) *	VR: 001 HEAD T. 00529H
<b>MENU RESET</b>	Returns menu screen settings to initial values	VR: 001 MENU RST
<b>POWER OFF</b>	Turns off timelapse VCR	VR: 001 PW. OFF
<b>POWER ON</b>	Turns on timelapse VCR	VR: 001 PW. ON
<b>POWER TIMER</b>	Calculates cumulative time of power on *	VR: 001 POWER T. 00529H
<b>SECURITY LOCK OFF</b>	Deactivates security lock	VR: 001 S. L. OFF
<b>SECURITY LOCK ON</b>	Activates security lock	VR: 001 S. L. ON
<b>TIMER ON/OFF</b>	Sets/clears recording set by timer  <b>D</b>	
<b>T/D SEARCH-1</b>	Searches for recording of specified day and hour, and still image  <b>E</b> *	
<b>T/D SEARCH-2</b>	Searches for recording of specified day, hour and minute, and still image  <b>E</b> *	
<b>T/D SEARCH-3</b>	Searches for recording of specified day, hour, minute and second, and still image  <b>E</b> *	VR: 001 T / D S. 3
<b>SHARPNESS</b>	Adjusts picture sharpness  <b>F</b>	VR: 001 SHARPNES SHARP: + SOFT: -
<b>ON SCREEN</b>	Turns screen display on and off	VR: 001 ON SCR N

**Note:**

- If the connected device does not have command functions, then “No OPE.” will appear in the menu screen.
- In group operation, the commands with the \* cannot be performed.

## Operations

### A: Plays back first 5 seconds of alarm recordings

- With the tape stopped, press the **FUNCTION** button.
- Press the + (or -) button to select “ALARM SCAN”.
- Press the **ENTER** button.

VR: 001 A. SCAN  
FF / REW?

- Press the **FF** button.

VR: 001 A. SCAN  
FF

### B: Searches for specified alarm recording and still image

- With the tape stopped, press the **FUNCTION** button.
- Press the + (or -) button to select “ALARM SEARCH”.
- Press the **ENTER** button.
- Using the numeric keypad, specify the alarm number.

Ex.: 3 → [0] [3]

VR: 001 A. SEARCH  
03 FF / REW?

- Press the **FF** button.

VR: 001 A. SEARCH  
03 FF

### C: Sets minutes and seconds of clock to 00

Ex.: Set clock to 14:00  
Works over the range from 13:30:00 to 14:29:59.

- Press the + (or -) button to select “CLOCK ADJUST”.
- Press the **ENTER** button.

VR: 001 CLK ADJ.  
PRESS: [ENTER]

- Press the **ENTER** button again.

VR: 001 CLK ADJ.

### D: Sets/clears recording set by timer

Setting the timer recording in the menu screen.  
(Refer to the Timelapse VCR instruction manual.)

- Press the + (or -) button to select “TIMER ON/OFF”.
- Press the **ENTER** button and return the menu screen to its normal screen. Recording is programmed.
- Press the + (or -) button to select “TIMER ON/OFF”.
- Press the **ENTER** button again. Recording program is cancelled.

VR: 001 T. ON / OFF

### E: Searches for recording of specified day and hour, and still image

- With the tape stopped, press the **FUNCTION** button.
- Press the + (or -) button to select “T/D SEARCH-1” and “T/D SEARCH-2” or “T/D SEARCH-3”.

- Press the **ENTER** button.

- Using the numeric keypad, specify the day and hour to search for.

Ex.: 3:00 p.m. (15:00) on the 6th → [0]  
[6] [1] [5]

VR: 001 T / D S. 1  
06 15 FF / REW?

- Press the **FF** button.

VR: 001 T / D S. 1  
06 15 FF

### F: Adjusts picture sharpness

- Press the + (or -) button to select “SHARPNESS”.

- Press the **ENTER** button.

VR: 001 SHARPNES  
SHARP: + SOFT: -

- Adjust sharpness with the + (or -) button. Press the + button for a sharper picture or the - button for a softer picture.

VR: 001 SHARP

VR: 001 SOFT

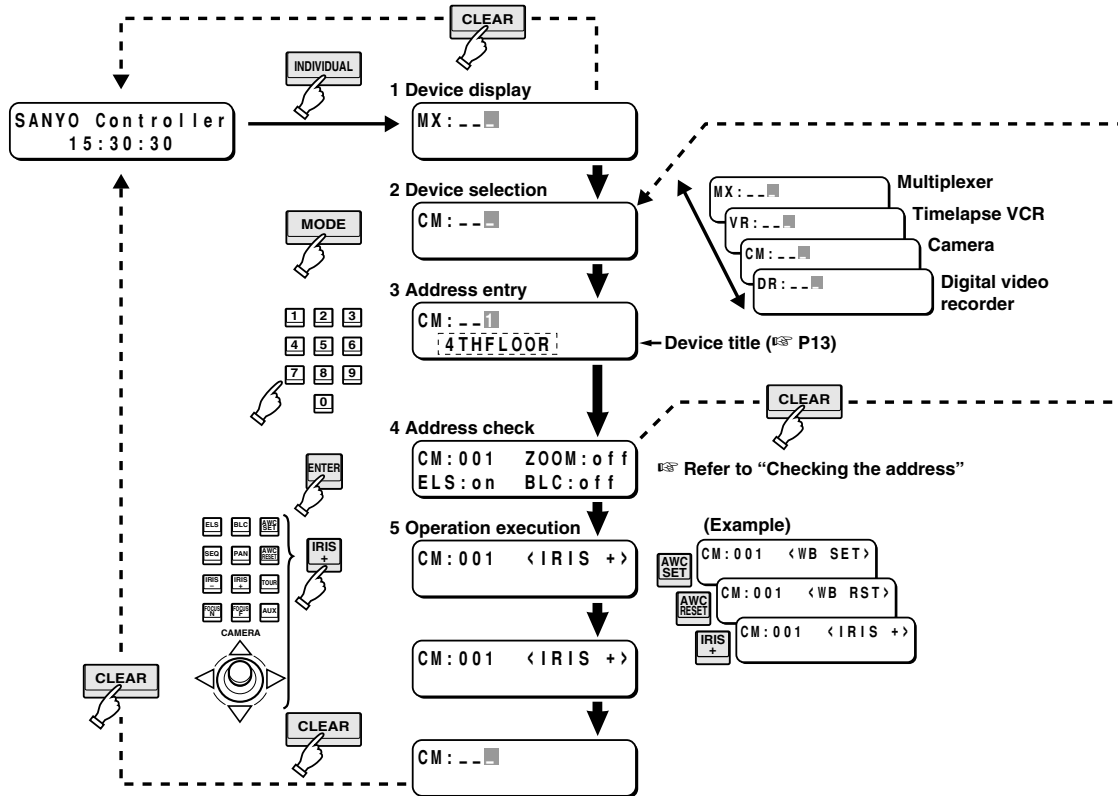
# CAMERA OPERATION

**Note:** If the receiver unit is to be used, select a camera and carry out the following operations in sequence.

The VSP-8000 enables two methods of camera operation. One is by performing direct operations using the command buttons on the VSP-8000 and the other is by using the call-up commands to bring up commands to the menu screen.

## [A] Operation using the command buttons

Use the procedure outlined below to operate the cameras.

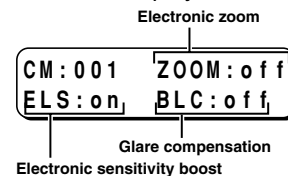


### ■ Operating procedure

1. Press the **INDIVIDUAL** button.
2. Press the **MODE** button to change the displayed device to "CM".
3. Enter the address with the numeric keypad.
4. Press the **ENTER** button to check the address.
  - The operating status of the camera appears in the menu screen. (Refer to **Checking the address.**)
5. Press the desired command buttons located in the **CAMERA** section of your VSP-8000.
  - For an explanation of the camera command buttons, refer to the **Command button operation list** on page 30.

### ■ Checking the address

When the address is checked in step 4, the on or off status of the electronic zoom (ZOOM), electronic sensitivity boost (ELS), and glare compensation are displayed in the menu screen.



# CAMERA OPERATION

## Command button operation list

The  in the table tells you the corresponding section below for reference.

VSP-8000 command button	Operation	Menu screen
ELS	Turns electronic shutter on and off (A)	CM:001 ELS ON:+ OFF:-
BLC	Turns glare compensation on and off (B)	CM:001 BLC ON:+ OFF:-
AWC SET	Executes auto white balance adjustment	CM:001 <WB SET>
IRIS -	Closes the iris level	CM:001 <IRIS ->
IRIS +	Opens the iris level	CM:001 <IRIS +>
IRIS - and IRIS +	Returns iris setting to initial value	CM:001 <IRIS C>
AWC RESET	Deactivates the white balance lock	CM:001 <WB RST>
PAN	Carries out/cancels automatic panning (C)	CM:001 PAN:off ON:+ OFF:-
FOCUS F	Adjusts the focus to distant objects using manual focus	CM:001 <FOCS F>
FOCUS N	Adjusts the focus to near objects using manual focus	CM:001 <FOCS N>
AUX	Turns other functions (receiver unit functions) on/off (D)	CM:001 AU.ALL
AF	Adjusts the focus automatically at one touch	
ZOOM W	Sets electronic zoom to wide	CM:001 <ZOOM W> CM:001 <CAMcon>**
ZOOM T	Sets electronic zoom to telescopic	CM:001 <ZOOM T> CM:001 <CAMcon>**
0	When electronic zoom is on, centers the screen during pan/tilt operations	CM:001 <0>
MENU	Brings up the menu screen, or selects the menu screen	CM:001 <MENU>
Joystick lever (◀)	<ul style="list-style-type: none"> <li>Changes set value at menu screen</li> <li>Pans to left when electronic zoom is on</li> </ul>	CM:001 <LEFT> CM:001 <CAMcon>**
Joystick lever (Δ)	<ul style="list-style-type: none"> <li>Changes set value at menu screen</li> <li>Tilts upward when electronic zoom is on</li> </ul>	CM:001 <UP> CM:001 <CAMcon>**
Joystick lever (▶)	<ul style="list-style-type: none"> <li>Changes set value at menu screen</li> <li>Pans to right when electronic zoom is on</li> </ul>	CM:001 <RIGHT> CM:001 <CAMcon>**
Joystick lever (∇)	<ul style="list-style-type: none"> <li>Changes set value at menu screen</li> <li>Tilts downward when electronic zoom is on</li> </ul>	CM:001 <DOWN> CM:001 <CAMcon>**
ENTER	Enters item selected at menu screen	CM:001 <ENTER>

## Dome camera command button operation list

VSP-8000 command button	Operation	Menu screen
TOUR	Turns TOUR mode on and off (C)	CM:001 TOUR ON:+ OFF:-
SEQ	Carries out/cancels sequential panning (C)	CM:001 SEQ:on ON:+ OFF:-
ELS	Sets the electronic shutter (E)	CM:001 ELS 2000 ON:+ OFF:-
1 - 9	Moves the camera to the position corresponding to the preset memory setting for the number entered (F)	CM:001 No. --- PRESET POSITION
Joystick lever (Right up)*	Pans and tilts to the top-right	CM:001 <UP&RGT> CM:001 <CAMcon>**
Joystick lever (Left up)*	Pans and tilts to the top-left	CM:001 <UP&LFT> CM:001 <CAMcon>**
Joystick lever (Right down)*	Pans and tilts to the bottom-right	CM:001 <DW&RGT> CM:001 <CAMcon>**
Joystick lever (Left down)*	Pans and tilts to the bottom-left	CM:001 <DW&LFT> CM:001 <CAMcon>**

\* Speed of camera pan or tilt will be faster or slower depending on the angle at which the joystick lever is held.

\*\* VCC-9300 only

**Note:** If the connected device does not have command functions, then "No OPE." will appear in the menu screen.

# CAMERA OPERATION

## Operations

### A: Turns electronic shutter on and off

1. Press the **ELS** button.

```
CM:001  ELS
ON:+    OFF:-
```

2. Press the + or – button to set “on” or “off”.

### B: Turns glare compensation on and off

1. Press the **BLC** button.

```
CM:001  ELS
ON:+    OFF:-
```

2. Press the + or – button to set “on” or “off”.

```
CM:001  <BLCon>
```

```
CM:001  <BLCOff>
```

### C: Carries out/cancels automatic panning

Turns **TOUR** mode on and off.

Carries out/cancels sequential panning

1. Press the **PAN/TOUR/SEQ** button.

```
CM:001  PAN:off
ON:+    OFF:-
```

```
CM:001  TOUR
ON:+    OFF:-
```

```
CM:001  SEQ:off
ON:+    OFF:-
```

2. Press the + button.  
Sequential panning starts.

```
CM:001  <PANon>
```

```
CM:001  <TORon>
```

```
CM:001  <SEQon>
```

3. Press the **PAN/TOUR/SEQ** button and then press the – button.  
Sequential panning stops.

### D: Turns other functions on/off

The **AUX** button switches between “AU.ALL” and “AU.–”.

#### To switch all functions on/off

1. Press the **AUX** button to display “AU.–”.

```
CM:001  AU.ALL
```

2. Press the **ENTER** button.
3. Press the + or – button to set “on” or “off”.

```
CM:001  AU.ALL
ON:+    OFF:-
```

#### To switch a specific function on/off

1. Press the **AUX** button to display “AU.–”.

```
CM:001  AU.--
```

2. Use the numeric keypad to enter a function number.

```
CM:001  AU.01
```

3. Press the **ENTER** button.
4. Press the + or – button to set “on” or “off”.

```
CM:001  AU.01off
ON:+    OFF:-
```

### E: Sets the electronic shutter

Sets the shutter speed to one of four speeds (1/60, 1/100, 1/500 or 1/2000).

If more than four speed settings are available, the following display will appear

- Shutter speed of 1/50 or slower than 1/60: SLOW
- Shutter speed of 1/50 or 1/60: OFF
- Shutter speed of 1/100 or 1/120: FL (flickerless)
- Shutter speed of 1/100 or faster than 1/120: FAST

1. Press the **ELS** button.

```
CM:001  ELS 2000
ON:+    OFF:-
```

2. Press the + button to set the shutter speed.

```
CM:001  <ELSon>
```

- If you press the – button, the setting becomes 1/60 (off).

```
CM:001  <ELSoFF>
```

### F: Moves the camera to a preset position

1. Specify a position number with the numeric keypad.

Example: 25 → [2][5]

```
CM:001  No. 25
PRESET POSITION
```

2. Press the **ENTER** button.

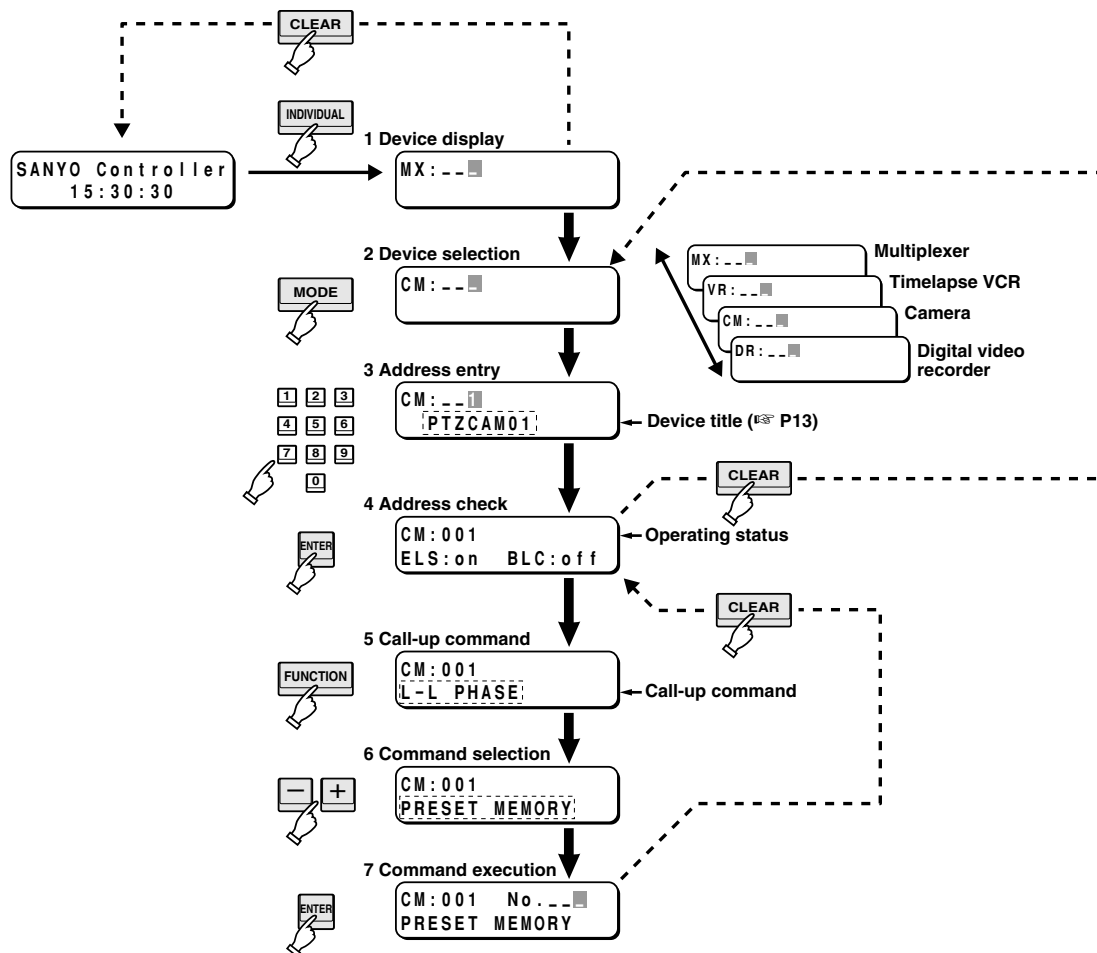
```
CM:001  No. 25
PRESET POSITION
```



# CAMERA OPERATION

## [B] Operation using the call-up commands

Use the procedure outlined below to operate the dome cameras.



### ■ Operating procedure

1. Press the **INDIVIDUAL** button.
2. Press the **MODE** button to change the displayed device to "CM".
3. Enter the address with the numeric keypad.
4. Press the **ENTER** button to check the address.
  - The operating status of the camera appears in the menu screen.
5. Press the **FUNCTION** button to bring up the commands.
  - The command name is displayed flashing.
  - For an explanation of the camera call-up commands, refer to the **Call-up command operation list** on page 33.
6. Press the + (or -) button to select the desired command.
7. Press the **ENTER** button to execute the command.

To abort the operation, press the **STOP** button.

# CAMERA OPERATION

## Call-up command operation list

The  in the table tells you the corresponding section below for reference.

Call-up command	Operation	Menu screen
L-L PHASE	Adjusts the vertical synchronization (A)	CM:001 L-L PHASE
PRESET MEMORY	Records the filming position, zoom and focus into the memory address specified by the position number (B)	CM:001 PRESET MEMORY
ALARM OUT	Selects whether an alarm will be output from the camera	CM:001 AL.OUT ON:+ OFF:-
RESET	Resets current settings	CM:001 RESET? YES:+ NO:-
ZOOM PRESET	Sets maximum Tele/Wide zoom limits +: Maximum Tele, -: Maximum Wide	CM:001 ZOOM ON:+ OFF:-

**Note:** Because the type of device connected is automatically detected by the system, devices that do not have compatibility with a certain command will prevent that command from appearing in the menu screen.

## Operations

### A: L-L PHASE

Adjusts the vertical synchronization

1. Press the + (or -) button to select "L-L PHASE".
2. Press the ENTER button.

CM:001 L-L.P  
UP:+ DOWN:-

3. Press and hold the + (or -) button to adjust the vertical synchronization.

CM:001 L-L.P:up

CM:001 L-L.P:dwn

4. Press the CLEAR button.

### B: PRESET MEMORY

Records the filming position, zoom and focus for a position number

1. Press the + (or -) button to select "PRESET MEMORY".
2. Press the ENTER button.

CM:001 No.--  
PRESET MEMORY

3. Use the joystick lever to adjust the desired filming position.
4. Press the ZOOM W or ZOOM T button to set the desired zoom ratio.
5. While pressing the 0 button, press the + (or -) button to adjust the focus.
6. Specify the position number with the numeric keypad.

**Example:** 25 → [2][5]

CM:001 No.25  
PRESET POSITION

7. Press the ENTER button.

CM:001 No.25  
PRESET POSITION

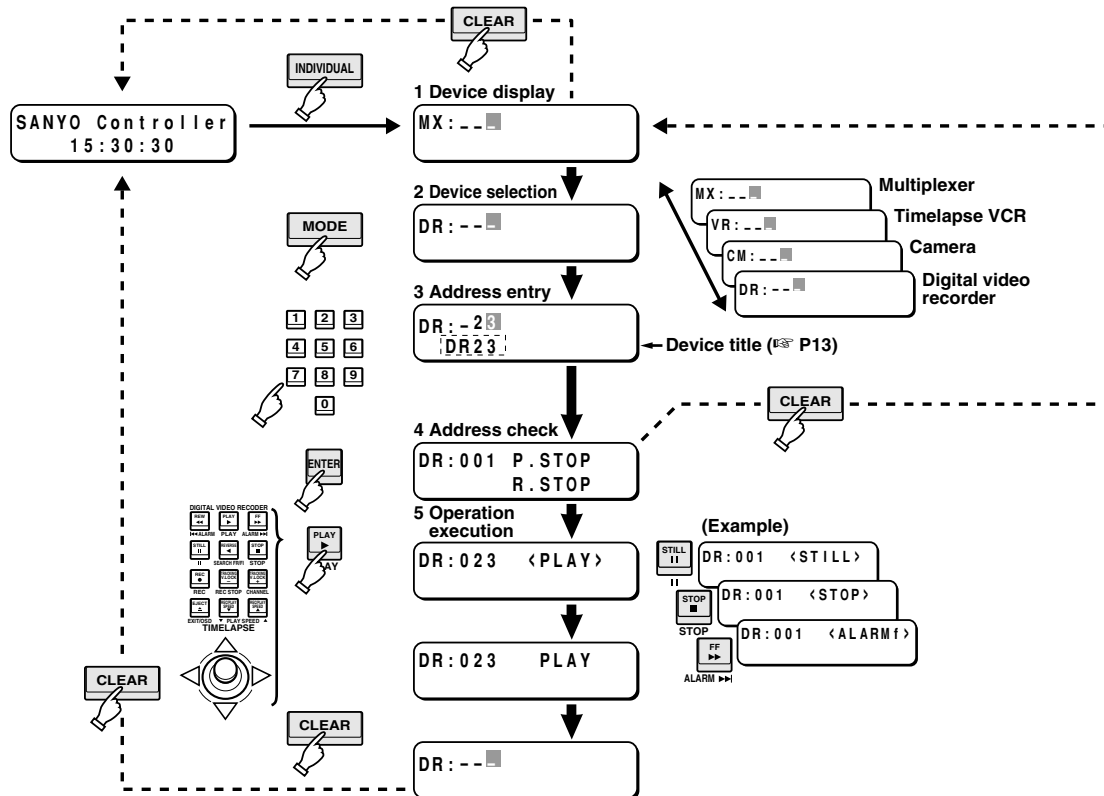
8. Repeat steps 3 to 7 to set the filming position, zoom and focus for the next position number.
9. Press the CLEAR button.

# DIGITAL VIDEO RECORDER OPERATION

The VSP-8000 enables two methods of digital video recorder operation. One is by performing direct operations using the command buttons on the VSP-8000 [A] and the other is by using the call-up commands to bring up commands to the menu screen [B].

## [A] Operation using the command buttons

Use the procedure outlined below to operate the digital video recorders.



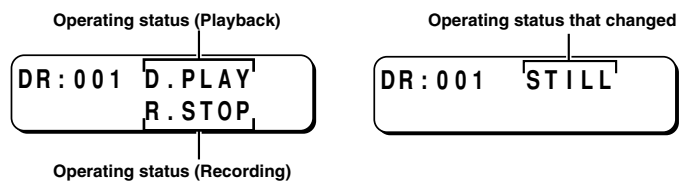
### ■ Operating procedure

1. Press the **INDIVIDUAL** button.
2. Press the **MODE** button to change the displayed device to "DR".
3. Enter the address with the numeric keypad.
4. Press the **ENTER** button to check the address.
  - The operating status of the digital video recorder appears in the menu screen. (Refer to **Checking the address.**)
5. Press the desired command buttons located in the **DIGITAL VIDEO RECORDER** section of your VSP-8000.
  - For an explanation of the digital video recorder command buttons, refer to the **Command button operation list** on page 35.

**Note:** Basically, pushing the joystick lever to the left and right corresponds to the digital video recorder shuttle dial operation and pushing it up and down corresponds to the jog dial operation. If the jog and shuttle dial operations are shown on the monitor screen, when the digital video recorder is working, please operate the joystick lever accordingly.

### ■ Checking the address

When the address is checked in step 4, the operating status is displayed in the menu screen. If the operating status changes, only the status that changes is displayed.




Status	Description	Status	Description
D.PLAY	Playing back the archive recording area	AL.FULL	Alarm recording area full
N.PLAY	Playing back the normal recording area	PRE REC	Pre-alarm recording is set
A.PLAY	Playing back the alarm recording area	PLAY	Playing back
D.REC	Recording in the archive recording area	T.STBY	Timer recording standby
N.REC	Recording in the normal recording area	N.R.STOP	Recording in the normal recording area is stopped
A.REC	Recording in the alarm recording area	A.R.STOP	Recording in the alarm recording area is stopped
TM STBY	Timer recording standby	FF	Fast forward
P.STOP	Playback is stopped	FR	Fast rewind
R.STOP	Recording is stopped	R.PLAY	Reverse playback
STILL	Pausing	SLOW.F	Slow forward playback
FULL	Normal recording area full	SLOW.R	Slow reverse playback

# DIGITAL VIDEO RECORDER OPERATION

## ■ Command button operation list

The  in the table tells you the corresponding section below for reference.

VSP-8000 command button	Operation	Menu screen
<b>PLAY ▶</b>	<ul style="list-style-type: none"> <li>● Playback</li> <li>● Starts recording check/Stops recording check</li> </ul>	DR:001 <PLAY>
<b>STOP ■</b>	Stops playback	DR:001 <STOP>
<b>STILL   </b>	<ul style="list-style-type: none"> <li>● Still image during playback</li> <li>● Pause image during recording</li> </ul>	DR:001 <STILL>
<b>ALARM ▶▶</b>	Searches for and plays back the next alarm during playback	DR:001 <ALARMf>
<b>◀◀ALARM</b>	Searches for and plays back the previous alarm during playback	DR:001 <ALARMr>
<b>CHANNEL</b>	Specifies a channel while paused  <b>A</b>	DR:001 <CHNEL>
<b>EXIT/OSD</b>	<ul style="list-style-type: none"> <li>● Turns On Screen Display on and off or adjusts display position</li> <li>● Exits On Screen Display menu</li> </ul>	DR:001 <O.E>
<b>REC ●</b>	Performs recording	DR:001 REC OK? OK:ENTER NO:CLR
<b>REC STOP</b>	Stops recording	DR:001 R.STP OK? OK:ENTER NO:CLR
<b>SEARCH FR/FI</b>	<ul style="list-style-type: none"> <li>● Displays search setting menu during recording or still image</li> <li>● Switches frame/field display during playback</li> </ul>	DR:001 <SEARCH>
<b>PLAY SPEED ▼</b>	Decreases menu screen settings and playback speed	DR:001 <SPD DN>
<b>PLAY SPEED ▲</b>	Increases menu screen settings and playback speed	DR:001 <SPD UP>
<b>MENU</b>	Brings up the menu screen, or selects the menu screen	DR:001 <MENU>

## ■ Operations

### A: Specifies a channel while paused

1. Press the **CHANNEL** button while paused.  
Enables channel setting mode and the operation display of the jog/shuttle dial will appear in the monitor screen.

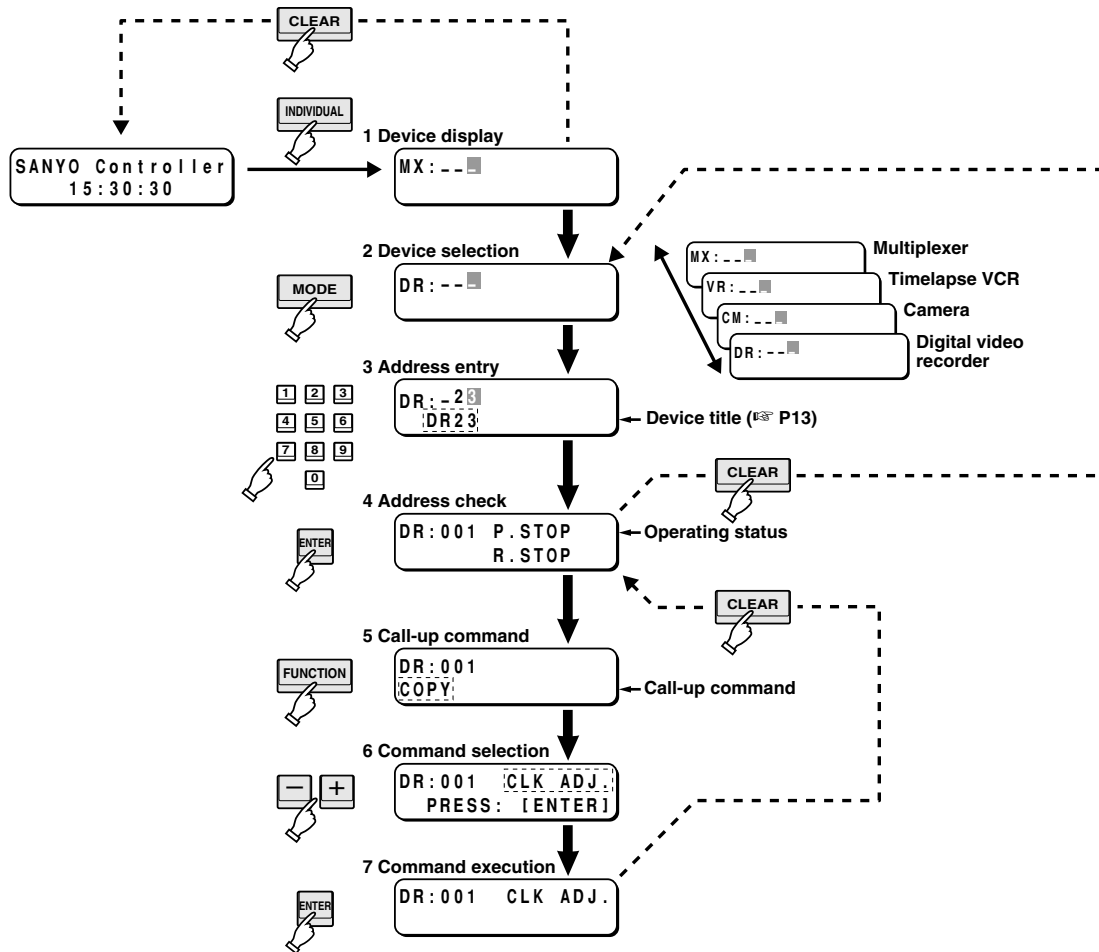
DR:001 <CHNEL>

2. Set the channel with the joystick lever.
  - **Jog**: Switch channels by moving the joystick lever up/down
  - **Shuttle**: Set the channel by moving the joystick lever to the right

# DIGITAL VIDEO RECORDER OPERATION

## [B] Operation using the call-up commands

Use the procedure outlined below to operate the digital video recorders.



## ■ Operating procedure

1. Press the **INDIVIDUAL** button.
2. Press the **MODE** button to change the displayed device to "DR".
3. Enter the address with the numeric keypad.
4. Press the **ENTER** button to check the address.
  - The operating status of the digital video recorder appears in the menu screen.
5. Press the **FUNCTION** button to bring up the commands.
  - The command name is displayed flashing.
  - For an explanation of the digital video recorder call-up commands, refer to the **Call-up command operation list** on page 37.
6. Press the + (or -) button to select the desired command.
7. Press the **ENTER** button to execute the command.

# DIGITAL VIDEO RECORDER OPERATION

## Call-up command operation list

The  in the table tells you the corresponding section below for reference.

Call-up command	Operation	Menu screen
CLOCK ADJUST	Sets minutes and seconds of clock to 00 (A)	
COPY	Copies still images to the archive recording area or to a CompactFlash card (B)	DR: 001 COPY
MENU RESET	Returns menu screen settings to initial values	DR: 001 MENU RST
TIMER ON/OFF	Sets timer recording standby mode (C)	
ZOOM	Turns the zoom function on and off (D)	

**Note:** If the connected device does not have command functions, then “No OPE” will appear in the menu screen.

## Operations

### A: CLOCK ADJUST

Sets minutes and seconds of clock to 00

Ex.: Set clock to 14:00:00  
Works over the range from 13:30:00 to 14:29:59.

1. Press the + (or –) button to select “CLOCK ADJUST”.
2. Press the ENTER button.

DR: 001 CLK ADJ.  
PRESS: [ENTER]

3. Press the ENTER button again.

DR: 001 CLK ADJ.

### B: COPY

Copies still images to the archive recording area or to a CompactFlash card

1. Press the + (or –) button to select “COPY”.
2. Press the ENTER button.  
Enables copy setting mode. Jog/shuttle dial operations will be displayed on the monitor screen.

DR: 001 COPY  
EXIT: CLEAR

3. Use the joystick lever to make copy settings.  
Press the CLEAR button and return to the call-up command selection display.

### C: TIMER ON/OFF

Sets a recording program on the menu screen. (Please refer to the digital video recorder instruction manual.)

1. Press the + (or –) button to select “TIMER ON/OFF”.
2. Press the ENTER button and return the menu screen to its normal screen. Recording is programmed.
3. Press the + (or –) button to select “TIMER ON/OFF”.
4. Press the ENTER button again. Recording program is cancelled.

DR: 001 T. ON/OFF

### D: ZOOM

Turns the zoom function on and off

1. Press the + (or –) button to select “ZOOM”.
2. Press the ENTER button.  
Enables zoom setting mode. Jog/shuttle dial operations will be displayed on the monitor screen.

DR: 001 ZOOM  
EXIT: CLEAR

3. Use the joystick lever to make zoom settings.
  - **Jog:** Set the zoom position by moving the joystick lever up/down
  - **Shuttle:** Confirm the zoom position by moving the joystick lever to the right  
Press the CLEAR button and return to the call-up command selection display.

#### Note:

- When the zoom position is specified, the zoom screen display will appear automatically on the monitor screen.
- Repeat these commands to cancel the zoom screen display.

# GROUP SETTING

The VSP-8000 lets you operate multiple devices at the same time. To operate a number of devices as a group, you must first set them as a group. Up to 15 devices can be set as a group. After making any group setting, be sure to perform a group check and store the new settings in memory.

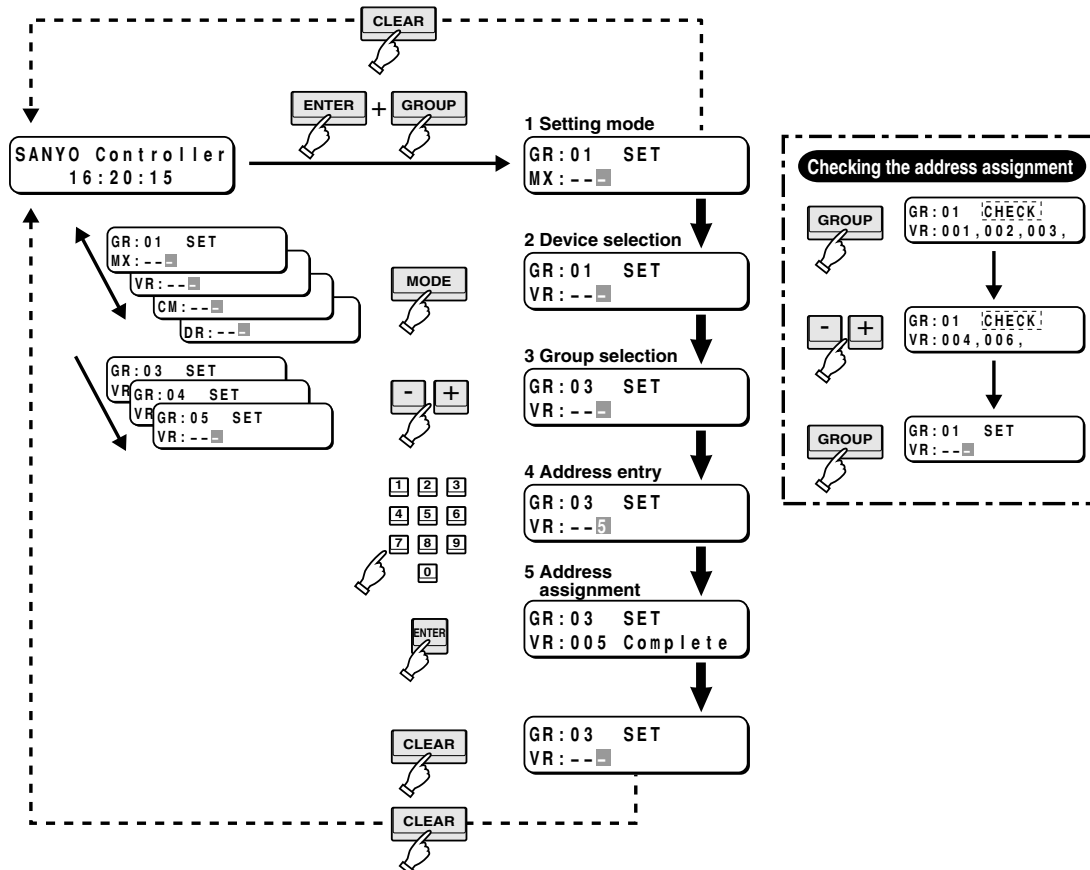
(Group setting flowchart)

[1] Assign addresses to each group

[2] Operate the addresses assigned to a group

[3] Delete a group address

## [1] Assign addresses to each group



### Operating procedure

- Press the **GROUP** button while holding down the **ENTER** button.
  - Enters the setting mode.
- Press the **MODE** button to select the type of device the address is that will be assigned.
- Press the + (or -) button to select the group number.
- Enter the address number with the numeric keypad.
- Press the **ENTER** and store the address number in the group.
  - If the device at the specified address is properly connected, "Complete" appears. If it is not, "No ADR." appears.
- Press the **CLEAR** button.

### Checking the address assignment

- Press the **GROUP** button.
 

Assigned addresses (max. of three) are displayed.

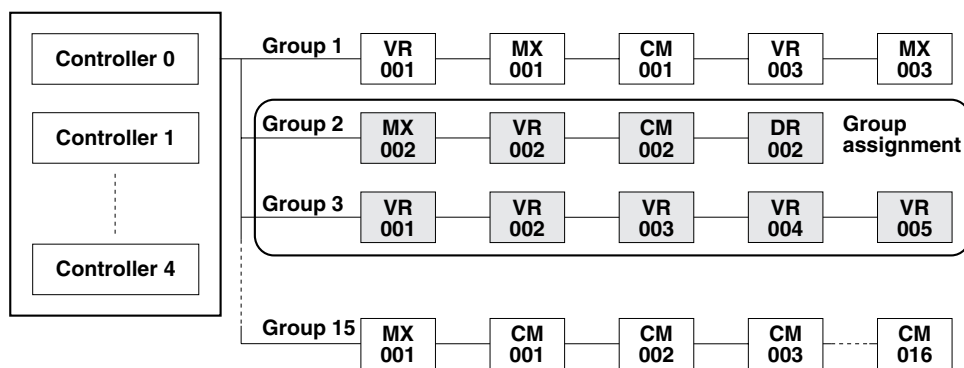
  - Press the **MODE** button to select the device type.
  - If four or more addresses exist within the group, then scroll with the + (or -) button.
- Press the **GROUP** button.
 

Return to the setting mode.

**Note:** When two or more VSP-8000s are connected together, conflicting group assignments cannot be made with different units.

# GROUP SETTING

## Group assignment example

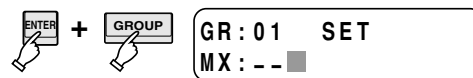


MX: Multiplexer, VR: Timelapse VCR, CM: Camera, DR: Digital video recorder

**Example:** Assign the multiplexer (address 2), timelapse VCR (address 2), camera (address 2), and digital video recorder (address 2) to group 2.  
Assign 5 timelapse VCR (addresses 1 to 5) to group 3.

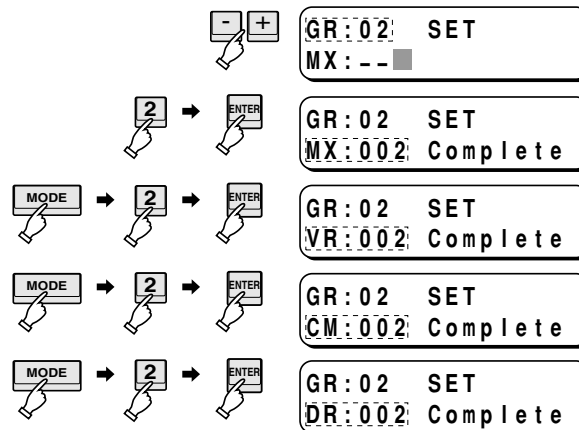
### 1 Press the **GROUP** button while holding down the **ENTER** button.

- Enters the setting mode.



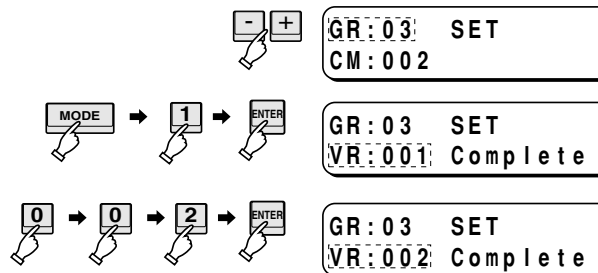
### 2 Press the + (or -) button to select group "02".

- Enter "2" with the numeric keypad and press the **ENTER** button.
- Select "**VR**" with the **MODE** button, enter "2" with the numeric keypad, and press the **ENTER** button.
- Select "**CM**" with the **MODE** button, enter "2" with the numeric keypad, and press the **ENTER** button.
- Select "**DR**" with the **MODE** button, enter "2" with the numeric keypad, and press the **ENTER** button.



### 3 Press the + (or -) button to select group "03".

- Select "**VR**" with the **MODE** button, enter the address "1" with the numeric keypad, and press the **ENTER** button.
- Enter "0", "0", "2" with the numeric keypad and press the **ENTER** button.
- Using the same procedure, enter the addresses 3 to 5.



### 4 Press the **CLEAR** button twice.

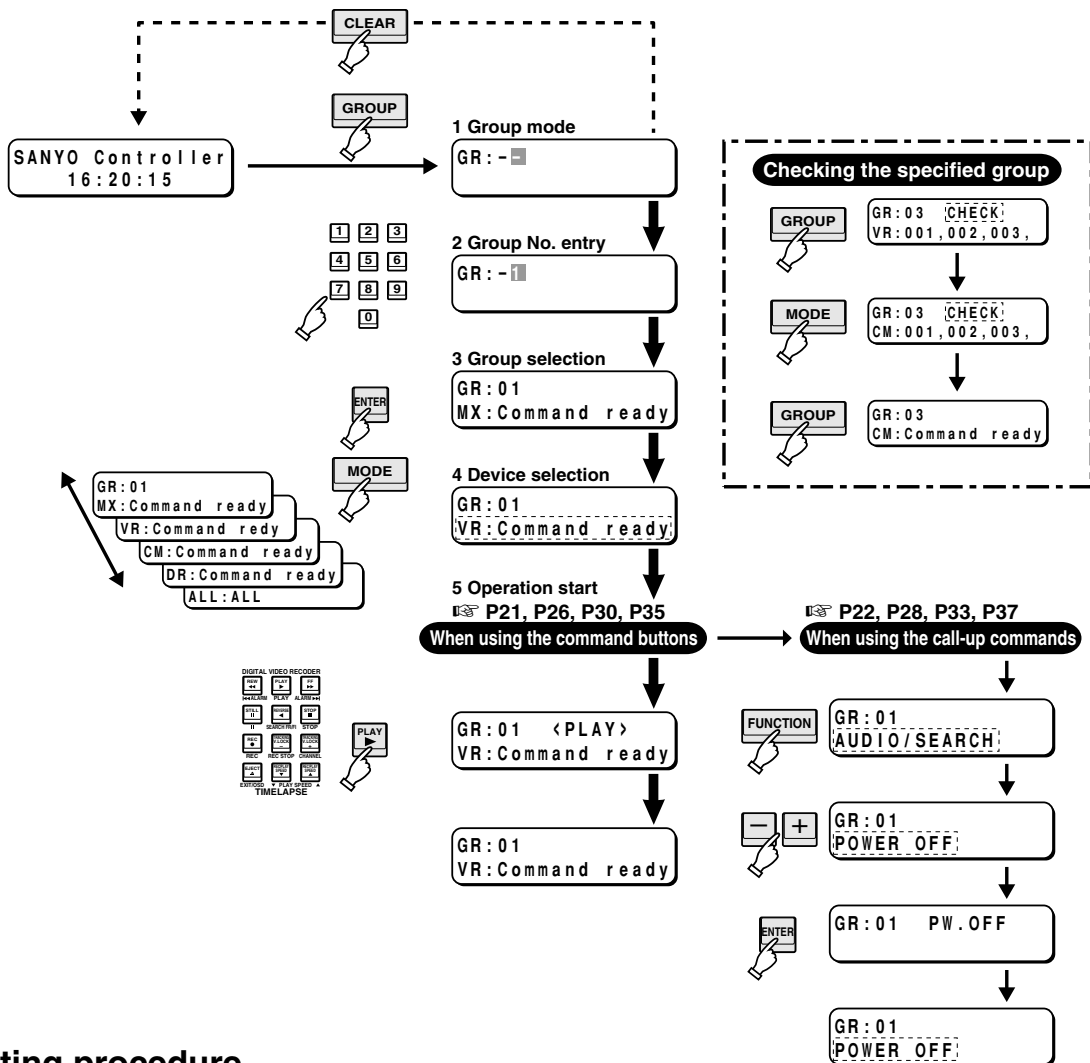
- The initial screen reappears.

### 5 When two or more VSP-8000s are connected together, perform group checks with the other controllers. (P14)



# GROUP SETTING

## [2] Operate the addresses assigned to a group



### ■ Operating procedure

1. Press the **GROUP** button.
  - Enter the group mode.
2. Using the numeric keypad, specify a group number.
3. Press the **ENTER** button to check the group number.
  - If there is no group registered at that number, “unregistered” will appear.
4. Press the **MODE** button to select the devices for group operation.
  - To operate all devices, select “ALL”.

#### Note:

- Even if you select “ALL” for camera operation, the operations given in the Command list (page 30, 33) cannot be performed. To perform these operations, first assign a group.
- Because the DIGITAL VIDEO RECORDER and TIMELAPSE commands utilize the same keypad buttons, selecting ALL groups will cause the system to override the DIGITAL VIDEO RECORDER functions of the keypad buttons, preventing them from controlling digital video recorder.

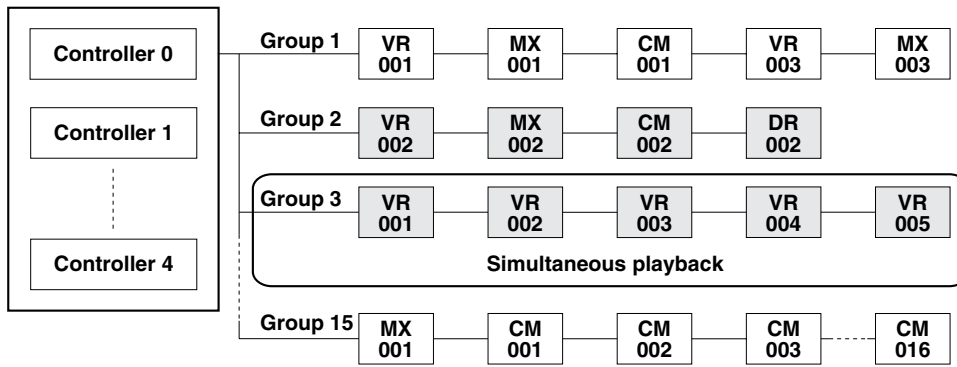
5. Select the operating method.
  - For direct operation, use the command buttons. (P21, P26, P30, P35)
  - For calling up commands, use the call-up commands. (P22, P28, P33, P37)

### ■ Checking the specified group

1. Press the **GROUP** button.
  - Assigned addresses (max. of three) are displayed.
    - Press the **MODE** button to select the device type.
    - If four or more addresses exist within the group, then scroll with the + (or -) button.
2. Press the **GROUP** button.
  - Return to the setting mode.

# GROUP SETTING

## Group operation example



MX: Multiplexer, VR: Timelapse VCR, CM: Camera, DR: Digital video recorder

**Example: Simultaneously playback the timelapse VCRs of group 3**

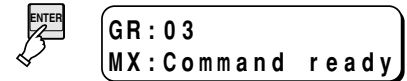
**1** Press the GROUP button.



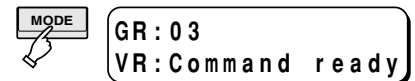
**2** Enter the group number "3" with the numeric keypad.



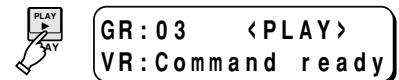
**3** Press the ENTER button.



**4** Press the MODE button to select "VR".

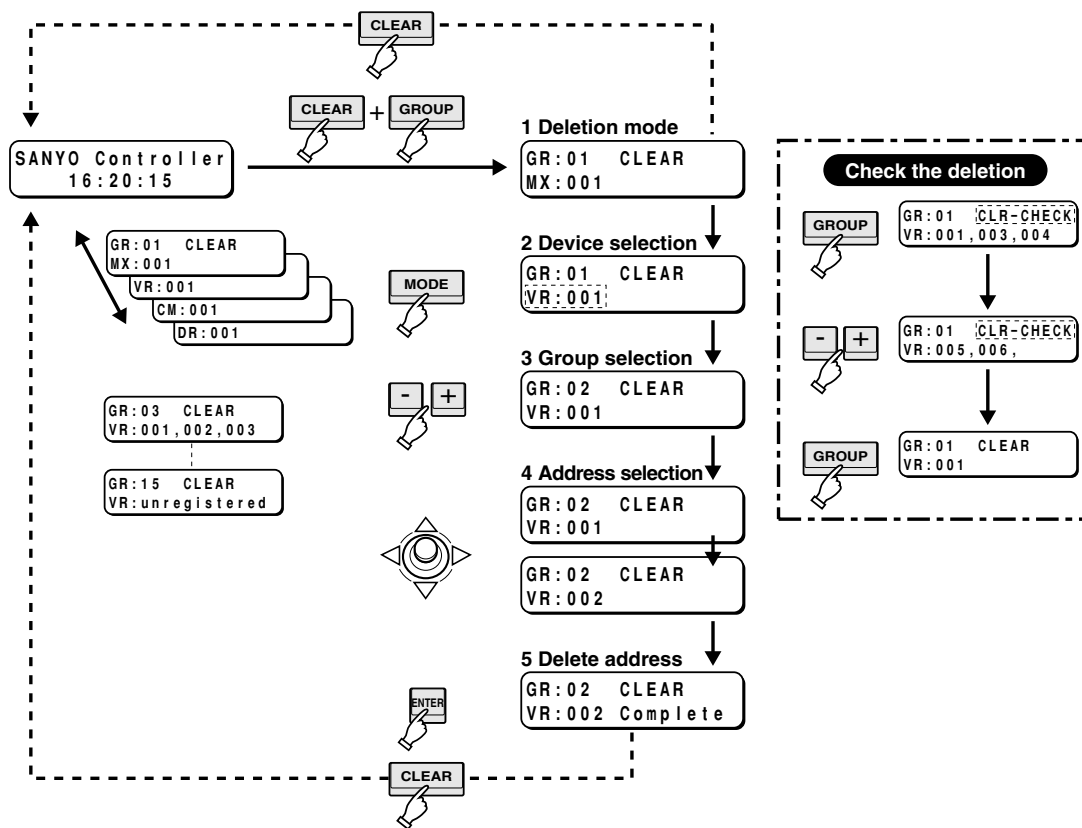


**5** Press the PLAY button.



# GROUP SETTING

## [3] Delete a group address



### ■ Operating procedure

1. Press the **GROUP** button while holding down the **CLEAR** button.
  - Enters the deletion mode.
2. Press the **MODE** button to select the type of device whose address will be deleted.
  - If there is no registered address, "unregistered" will appear.
3. Press the **+** (or **-**) button to select the group number.
4. Enter the address to be deleted with the **joystick lever** ( $\Delta$  or  $\nabla$ ).
5. Press the **ENTER** button and delete the address number.
6. Press the **CLEAR** button.

### ■ Check the deletion

1. Press the **GROUP** button.
 

Assigned addresses (max. of three) are displayed.

  - Press the **MODE** button to select the device type.
  - If four or more addresses exist within the group, then scroll with the **+** (or **-**) button.
2. Press the **GROUP** button.
 

Return to the setting mode.

# ALARM LIST

## ALARM lamp operation

**1** If an alarm is triggered at a multiplexer, timelapse VCR, or camera, the **ALARM** lamp will flash for five seconds and then turn on.

**ALARM**  
●  
(Flash → On)

- If an alarm is triggered at a device, the alarm contents are stored in a list at the controller. Press the **ALARM LIST** button to bring up the alarm list. The list can hold up to 100 alarms.

**2** Press the **ALARM** button.



- Alarm contents will be displayed in the order in which the alarms were triggered.

- Note:**
- The alarm list display will disappear if the **ALARM LIST** button is pressed again while the alarm list is being displayed.
  - The **ALARM** lamp will flash if there is an unconfirmed alarm recording in the alarm list. The **ALARM** lamp will be extinguished when the listed alarms are confirmed.
  - A setting can be made from a connected device so that the alarm list cannot be displayed in the menu display section of the VSP-8000. Please refer to your instruction manual for details.

## Example alarm list

(For multiplexers)

① ②  
A 098 11 / 30 05 : 30  
MX : 012 CH16 EA  
③ ④ ⑤

(For timelapse VCR)

① ②  
A 100 11 / 30 15 : 30  
VR : 001 IN EA  
③ ⑥ ⑤

(For cameras)

① ②  
A 097 11 / 30 03 : 00  
CM : 001  
③

① **Alarm number**

The higher the number, the newer the alarm. The alarm number can be changed with the + (or -) buttons.

② **Date and time of alarm**

③ **Device where alarm occurred**

④ **Channel of alarm**

⑤ **Type of alarm**

- EA: external alarm
- VL: Video loss
- SA: Sensor alarm

⑥ **Alarm recording start and end**

The alarm recording start (IN) and end (OUT) are entered in the alarm list as two different events.

- IN: Alarm recording start
- OUT: Alarm recording end

**Note:** Dome cameras are not equipped with an alarm function.

## Deleting the alarm list

**1** Press the **ALARM LIST** button while holding down the **CLEAR** button.

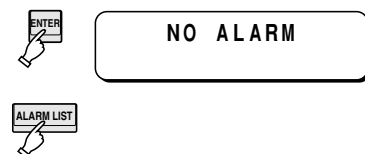
- The alarm list deletion screen appears.



**Note:** Press the **CLEAR** button to abort the deletion and return to the initial screen.

**2** Press the **ENTER** button.

- The alarm list is cleared and "**NO ALARM**" is displayed.
- Press the **ALARM LIST** button again to return to the original screen.



**Note:** If an alarm occurs before the clock has been set for the VSP-8000, then the display of the alarm in the menu screen will not have a time.

A001 -- / -- -- : --

# STATUS LIST

If the **STATUS LIST** button is pressed again, the status list will disappear and the original screen will return.

## ■ STATUS lamp operation

**1** If the status of a timelapse VCR changes, the **STATUS** lamp will flash for five seconds and then turn on.

- If the status of a device changes, the details of the status change are stored in a list at the controller. Press the **STATUS LIST** button to bring up the status list. The list can hold up to 100 changes.

### STATUS

●  
(Flash → On)

**2** Press the **STATUS LIST** button.

- Alarm contents will be displayed in the order in which their status was received.



- Note:**
- The status list display will disappear if the **STATUS LIST** button is pressed again while the status list is being displayed.
  - The **STATUS** lamp will flash if there is an unconfirmed status recording in the status list. The **STATUS** lamp will be extinguished when the listed statuses are confirmed.
  - A setting can be made from a connected device so that the status list cannot be displayed in the menu display section of the VSP-8000. Please refer to your instruction manual for details.

**Note:** The status list can be set at some connected devices so that it cannot be displayed in the menu screen of the VSP-8000. For more details, refer to the device instruction manuals.

## ■ Deleting the status list

**1** Press the **STATUS LIST** button while holding down the **CLEAR** button.

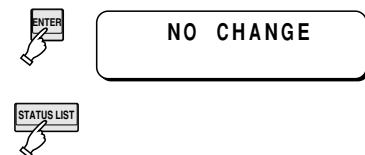
- The status list deletion screen appears.



**Note:** Press the **CLEAR** button to abort the deletion and return to the initial screen.

**2** Press the **ENTER** button.

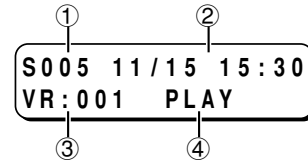
- The status list is cleared and "**NO CHANGE**" is displayed.
- Press the **STATUS LIST** button again to return to the initial screen.



**Note:** If a status change occurs before the clock has been set for the VSP-8000, then the display of the status change in the menu screen will not have a time.

S005 --/-- --:--

## ■ Example status list



**① Status number**

The higher the number, the newer the status change. The status number can be changed with the + (or -) buttons.

**② Date and time of status change**

**③ Device where status change occurred**

VR: Timelapse VCR, CM: Camera, DR: Digital video recorder

**④ Status that changed**

# DISPLAY MEANINGS AND REMEDIES

## ● Menu screen display

Display	Meaning	Remedy	Page
<b>ADDRESS ERROR</b>	Address between 5 and 7 was set. The same address as another controller was set.	Set another address between 0 and 4.	<b>6</b>
<b>DBL. ADR.</b>	Two devices have the same address.	Set the address of one of the devices to a different address.	
<b>Error (during entry)</b>	Entry exceeds existing limits.	Reenter value within limits.	<b>13</b>
<b>No OPE. (during operation)</b>	The device does not support the specified operation.	Read the instruction manual of the device.	
<b>Error (during connection)</b>	Though device is in standby, requested operation was tried three times and could not be executed.	Wait a moment and try again.	
<b>FAIL</b>	Requested alarm No., day/hour, or day/hour/minute recording could not be found.		
<b>FIND</b>	Requested alarm No., day/hour, or day/hour/minute recording was found.		
<b>LOCKED</b>	Security lock of unit is activated.	Enter the secret code and deactivate security lock.	<b>10</b>
<b>LOCKED BY MASTER</b>	Security lock of master controller is activated.	Deactivate lock at master controller.	<b>10</b>
<b>No ADR.</b>	Address does not exist (e.g., has not been set).	Recheck and enter correct address.	<b>38</b>
<b>NO ALARM</b>	Alarm list has no alarm entries.	Check alarm list after ALARM lamp flashes.	<b>43</b>
<b>NO CHANGE</b>	Status list has no status entries.	Check status list after STATUS lamp flashes.	<b>44</b>
<b>unregistered</b>	Device is not registered in a group.	Either specify that device or register it in a group.	<b>40</b> <b>42</b>
<b>WAITING</b>	Bus carrying data to devices is busy and device will not operate.	Device is treated as if in standby and requested operation will be tried three times. Wait a moment and try again.	
	A potential difference has occurred in the computer connected to the VSP-8000 and RS-485 signals are not operating properly.	Please ensure that the earth terminal of this equipment, or the earth terminal of the computer, is connected to earth.	

**Note:** If "No ADR" appears during operation despite communication having been established with the controller and device (timelapse VCR, etc.), there may be a conflict within the system between data from the controller and data from the device. In this case repeating either command will return the communication back to normal.

# SPECIFICATIONS

<b>Communication method</b>	: RS 485
<b>Control terminals</b>	: RJ-11: 2 terminals Push-lock: 1 pair
<b>RS-232C terminal</b>	: D-SUB (9-pin): 1 port
<b>Address/termination switch</b>	: Address: 3-bit DIP switch Termination: 1-bit DIP switch
<b>Communication speed (baud rate)</b>	: 2400, 4800, 9600, 19200 bps
<b>Max. no. of groups</b>	: 15 groups
<b>Max. no. of connected devices</b>	: Total: 256 devices Controllers: 5 devices Multiplexers, timelapse VCRs, cameras, and digital video recorder: 128 devices each
<b>Dome-type cameras</b>	: 64 devices
<b>Ambient conditions</b>	: Temperature: 0 to 40°C Relative humidity: 80% or less
<b>Storage conditions</b>	: Temperature: -20 to 60°C Relative humidity: 80% or less
<b>Power supply</b>	: 12 V DC
<b>Power consumption</b>	: 4 W
<b>External dimensions</b>	: 375 (W) x 55 (H) x 165 (D) mm
<b>Weight</b>	: 1.5 kg
<b>Accessories</b>	: AC adapter (1), modular cable (RJ-11, 6-pin, 2-core) (1)

**Be aware that the external appearance or specifications are subject to change without notice.**

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L8CSB/XE (0402KP-SY)



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**SANYO Electric Co., Ltd.**

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