# SANYO

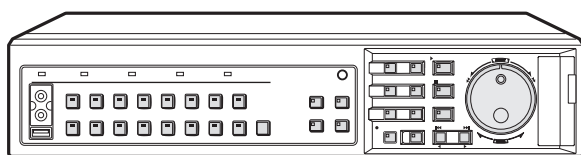# Digital Video Recorder    DSR-5016P
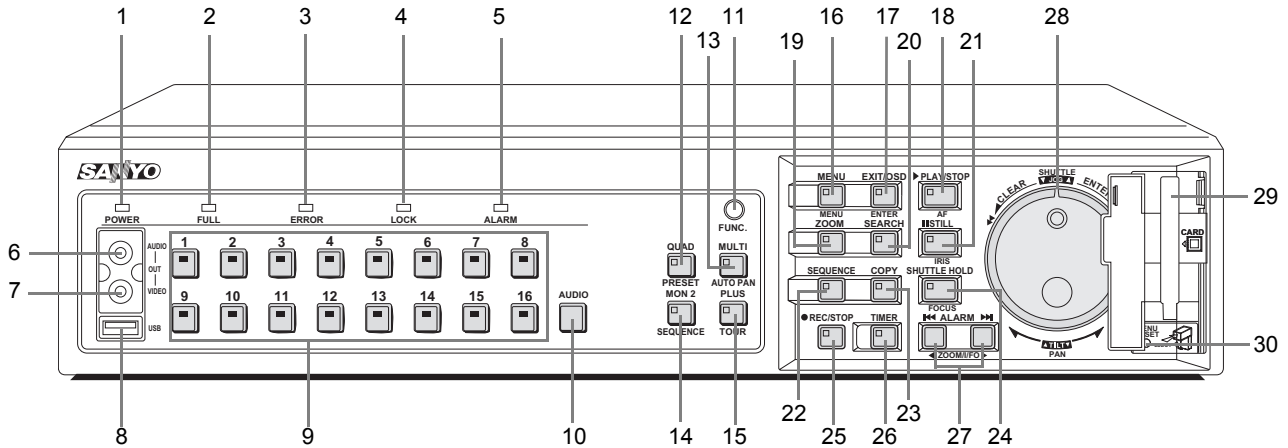# DSR-5009P

# Quick Guide

**See "INSTRUCTION MANUAL" for menu settings or details of the operation.**

| Contents |
|---|
| **INTRODUCTION** |

## DSR-5016P



## Front panel

### 1. POWER indicator
Lights up when the power is on.

### 2. FULL indicator
Flashes when the amount of available memory in the hard disk's recording area drops to the percentage specified using menu settings.
In addition, recording stops automatically when no more memory is available, and the FULL indicator switches to a permanently lit condition.
The indicator can then be turned off by performing "AREA FULL RESET".

### 3. ERROR indicator
This indicator flashes if the HDD or fan begins to malfunction.

### 4. LOCK indicator
Lights up when operations have been locked.
The LOCK indicator turns off when the lock condition is cancelled.

### 5. ALARM indicator
Flashes during alarm recording.
The ALARM indicator lights up during pre-alarm recording.

### 6. AUDIO OUT (RCA) terminal
Connect this terminal and VIDEO OUT terminal to a commercially-available VCR or DVD recorder to enable copying of recorded audio and video. (Same as the audio output terminal on the rear panel)

### 7. VIDEO OUT (RCA) terminal
Connects to a commercially-available VCR or DVD recorder to enable copying of recorded video. (Same as the MAIN MONITOR output terminal on the rear panel)

### 8. USB terminal
Connects to a recordable CD or DVD drive.
For compatibility, refer to the SANYO homepage.
http://www.sanyosecurity.com/
The rear panel and front panel USB terminals cannot be connected to simultaneously.

### 9. [CAMERA SELECT] buttons and indicators
When one or more cameras have been connected to the VIDEO IN terminals on the digital video recorder's rear panel and the appropriate [CAMERA SELECT] button is pressed, the corresponding indicator lights up and the video feed from that camera is displayed on-screen.
● During quad, multi 9, or multi 16 screen display:
The indicators corresponding to the cameras being displayed on the monitor light up.
● During video loss:
The indicator starts to flash.
● If an alarm occurs:
The indicator for the corresponding camera starts to flash.

### 10. [AUDIO] button
Audio input channels connected to the rear panel AUDIO IN terminal can be switched.
Each time this button is pressed, the channel changes in the following order: 1+2, OFF, 1, 2.

### 11. [FUNC.] button
Activates dome camera operation mode. The operation of other buttons changes. Use also for advanced menu functions.

### 12. [QUAD] button and indicator
Displays video in quad screens. The indicator lights up while in quad screen display.
The indicator turns off when using a different screen display mode.

### 13. [MULTI] button and indicator
Displays video in multi 9 or multi 16 screen display.
The indicator lights up while in multi 9 or multi 16 screen display.
The indicator turns off when using a different screen display mode.
The DSR-5009P can only display video in nine screens.

### 14. [MON2] button and indicator
If the [MON2] button is pressed while a monitor is connected to the MON2 output terminal on the rear panel, it is possible to change the monitor 2 video. The [CAMERA SELECT], [SEQUENCE], [QUAD], [MULTI] and [PLUS] buttons can be used. The indicator lights up when this mode is selected.

### 15. [PLUS] button
Changes the video from a single camera to quad screen size during multi 9, multi 16, full screen or quad screen display.
For DSR-5009P, this operation is available when in multi 9, quad and full screen display.

## DSR-5009P
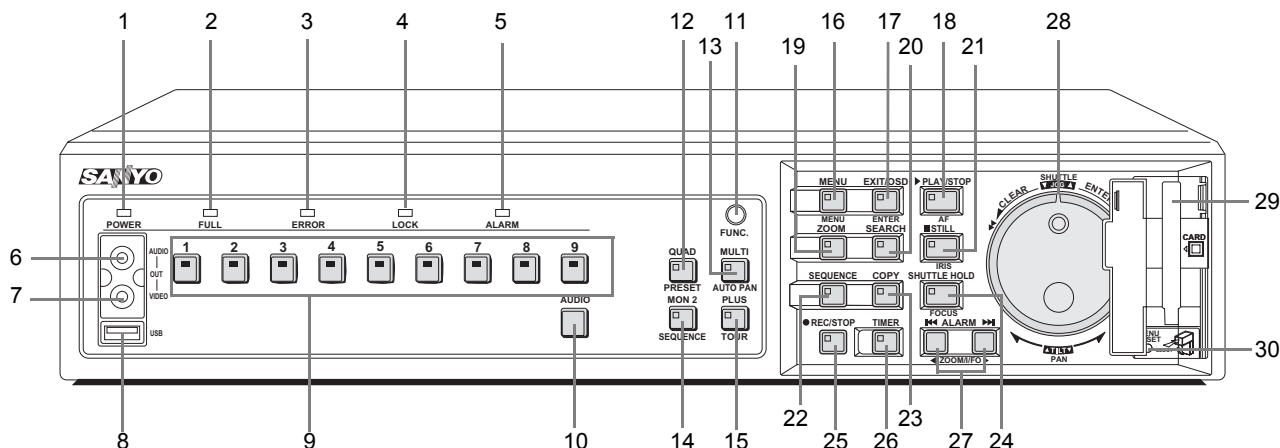


### 16. [MENU] button and indicator
Displays the menu screens (i.e., setting screens), and the indicator lights up while any of these screens is being displayed.

### 17. [EXIT/OSD] button and indicator
● EXIT:
Exits the main menu or a sub-menu. When a menu is displayed, the indicator turns off.
● OSD:
Each time the [OSD] button is pressed while the digital video recorder is recording, playing, or stopped, the operation display area changes position between the top and bottom of the screen or becomes hidden; furthermore, the indicator lights up whenever this information is being displayed.

### 18. [PLAY/STOP] button and indicator
When the [PLAY/STOP] button is pressed, the video from the recording area is played and the indicator lights up. When pressed during playback, this button stops the digital video recorder.

### 19. [ZOOM] button and indicator
When the [ZOOM] button is pressed during playback or monitoring of camera video on a full screen, a portion of the playback video is magnified and the indicator lights.

### 20. [SEARCH] button and indicator
When the [SEARCH] button is pressed while the digital video recorder is recording or stopped, the search menu is displayed and the indicator lights up. Press this button again to close the search menu.

### 21. [STILL] button and indicator
When the [STILL] button is pressed during playback, the current frame is displayed as a still image and the indicator lights up. Press this button again to cancel.

### 22. [SEQUENCE] button and indicator
Automatically switches the camera video during monitoring. When this button is pressed, the indicator begins flashing and the display is changed automatically. The [CAMERA SELECT] button indicator lights in accordance with screen changes.

### 23. [COPY] button and indicator
Copies recorded video to the HDD's archive area, CompactFlash card, Microdrive, CD-R/RW, or DVD+R/+RW. The indicator lights up during the copy process.

### 24. [SHUTTLE HOLD] button and indicator
Locks shuttle dial operation for a constant speed during playback or slow playback.
The indicator lights up while the shuttle dial is locked.

### 25. [REC/STOP] button and indicator
Starts normal recording, and the indicator lights up during this process.
Press this button for at least three seconds to stop recording and turn off the indicator.

### 26. [TIMER] button and indicator
If the [TIMER] button is pressed while the recording is stopped, timer recording standby mode is selected and recording starts automatically at the set time. The indicator lights up while in timer recording standby mode.
If the button is pressed during timer recording, this process is stopped and the indicator turns off. Furthermore, if the [TIMER] button is pressed when in timer recording standby mode, timer recording is cancelled.

### 27. [ALARM] button
When an [ALARM] button is pressed during playback or still, the digital video recorder skips to the next earlier or next later alarm.

### 28. Jog dial (inside) and shuttle dial (outside)
● During playback:
Use the jog dial to change the playback speed.
Use the shuttle dial to perform fast-forward or fast-reverse playback.
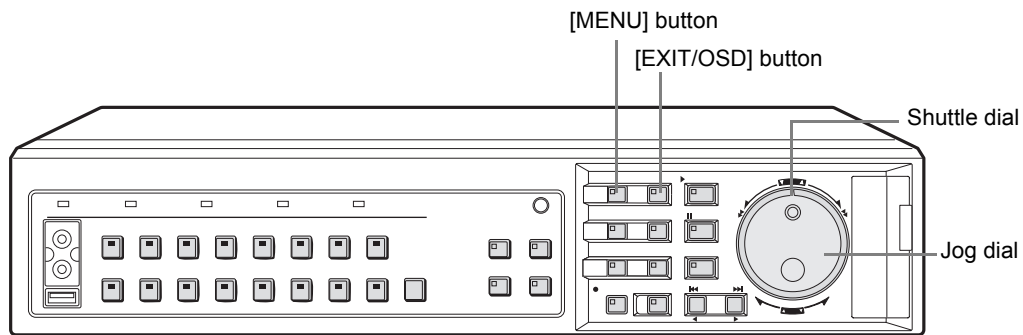● During menu display:
Use the jog dial to move the cursor and to change setting values. Use the shuttle dial to confirm settings.

### 29. CompactFlash card slot
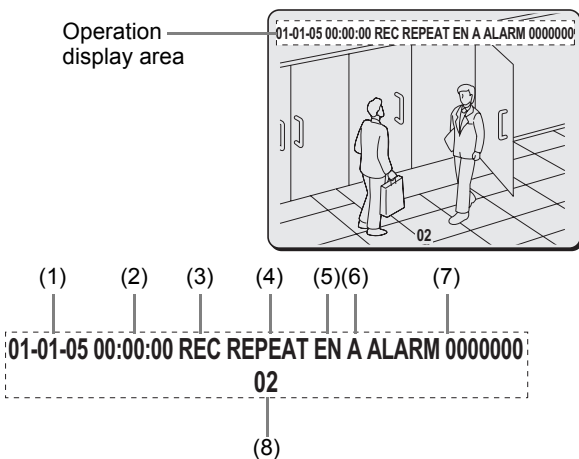This slot is used to house a CompactFlash card or Microdrive.

### 30. [MENU RESET] button
Restores displayed menus to default menu settings.

[MENU] button

[EXIT/OSD] button

Shuttle dial

Jog dial

## Operation display

When the power is turned on, the operation display is shown at the top of the monitor screen. This area indicates the date, time, picture quality and other information needed for operation.

Operation display area

01-01-05 00:00:00 REC REPEAT EN A ALARM 0000000

02

(1)　(2)　(3)　(4)　(5)(6)　(7)

01-01-05 00:00:00 REC REPEAT EN A ALARM 0000000
02

(8)

\* The above is an example display. This is not the default.

**(1) Date display (→P.5)**
Be sure to specify the correct date using menu settings.

**(2) Time display (→P.5)**
Make sure to specify the time using menu settings. Recording is not possible until the time is set.

**(3) Operation symbol display**
Displays the current operation, such as recording or playback.

| REC: Recording | ▶▶: Fast-forward playback |
| EXT: External timer recording | ◀◀: Fast-rewind playback |
| ▶: Normal playback | ▮▶: Slow playback |
| ◀: Reverse playback | ◀◀: Reverse slow playback |
| ▮▮: Still | |

## CAUTION

● The digital video recorder uses the date and time to manage recording and playback points. Accordingly, if the time has not been set correctly, it is not possible to effectively search for video data.

## NOTE ▶

● During simultaneous recording and playback, the display indicates playback ( ▶ ).

**(4) Remaining memory in recording area**
It is displayed while recording.
Displays the remaining area memory as a percentage when overwriting in the recording area is not permitted. If overwriting is permitted, "REPEAT" is displayed.

**(5) Picture quality display**
Displays the quality of the video that can be recorded on the hard disk. Set to "EN" (Enhanced) by default setting.

[Settings] (◆ indicates default setting)

| BA | Basic |
|---|---|
| NO | Normal |
| ◆EN | Enhanced |
| FI | Fine |
| SF | Super Fine |

**(6) Audio recording display**
"A" is displayed when audio is being recorded. "A" is displayed when audio is being played back if audio is recorded. When the [AUDIO] button is pressed, the audio channel (OFF/A1/A2/A12) is displayed.

**(7) Alarm display and alarm count display**
When an alarm is set using the "ALARM REC MODE SET" menu item, the following information is displayed.
● When alarm recording is set;
"ALARM" and the alarm number are displayed in stand-by mode.
"ALARM" flashes during alarm recording.
● When pre-alarm recording is in progress;
"PRE" and the alarm number are displayed in stand-by mode.
When an alarm occurs, "PRE" disappears and "ALARM" and the alarm number are displayed.
● When performing playback from the archive area;
"ARCHIV" and the backup number are displayed.

**(8) Camera title display**

The camera number or camera title is displayed. Also, when an alarm occurs the camera number and alarm "EA", "SA", or "ES" are displayed.

● When an external alarm signal is activated;
"EA" flashes to the left of the camera number.
● When a motion sensor alarm signal is activated;
"SA" flashes to the left of the camera number.
● When an external alarm signal and motion sensor signal are activated;
"ES" flashes to the left of the camera number.

**NOTE**

● Although operations such as playback, copying and data transfer are possible while recording, this unit gives priority to recording, and other operations may be delayed as a result.

## Changing the display position of the operation display area

### 1 Press the [EXIT/OSD] button.

EXIT/OSD

Each time the [EXIT/OSD] button is pressed, the operation display moves to a different location or is hidden.
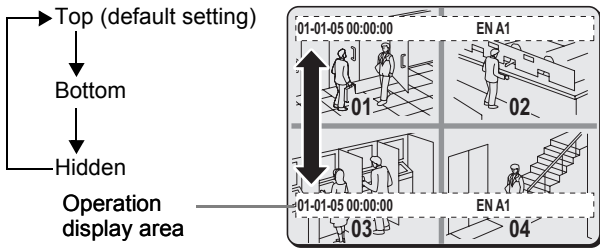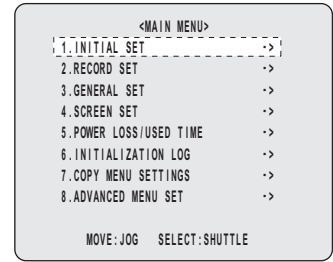


## Changing the language

The language displayed on the monitor can be changed.

[Settings] (◆ indicates default setting)

| Item | Setting | Description |
|------|---------|-------------|
| LANGUAGE | ◆ENGLISH | Sets the language to English. |
| | FRANCAIS | Sets the language to French. |
| | DEUTSCH | Sets the language to German. |
| | ESPAÑOL | Sets the language to Spanish. |

### 1 Press the [MENU] button.

The MENU indicator lights up and the <MAIN MENU> is displayed.

MENU

```
              <MAIN MENU>
  1.INITIAL SET              ·>
  2.RECORD SET               ·>
  3.GENERAL SET              ·>
  4.SCREEN SET               ·>
  5.POWER LOSS/USED TIME     ·>
  6.INITIALIZATION LOG       ·>
  7.COPY MENU SETTINGS       ·>
  8.ADVANCED MENU SET        ·>

       MOVE:JOG   SELECT:SHUTTLE
```

### 2 Turn the jog dial to select "1.INITIAL SET" and then turn the shuttle dial clockwise.

The <INITIAL SET> screen is displayed.

```
              <INITIAL SET>
  1.LANGUAGE/CLOCK SET       ·>
  2.CAMERA DETECT            ·>
  3.TITLE SET                ·>
  4.HOLIDAY SET              ·>
  5.TIME PERIOD SET          ·>

       MOVE:JOG   SELECT:SHUTTLE
```

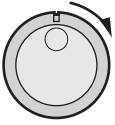### 3 Turn the jog dial to select "1.LANGUAGE/CLOCK SET" and then turn the shuttle dial clockwise.

The <LANGUAGE/LANGUE/SPRACHE/IDIOMA> screen is displayed.
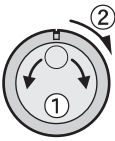
```
   <LANGUAGE/LANGUE/SPRACHE/IDIOMA>
              ENGLISH
            <CLOCK SET>
      01-01-2005 SAT 00:00:00
          <SUMMER TIME SET>
     MODE    :    USE

            WEEK   MONTH   TIME
     ON   LST·SUN   03    02:00
     OFF  LST·SUN   10    02:00
          <EXT.CLOCK SET>
     ADJUST. TIME       01:00
```

OPERATION

## 4 Turn the shuttle dial clockwise.

"ENGLISH" flashes.

```
              <LANGUAGE/LANGUE/SPRACHE/IDIOMA>
                     ►ENGLISH◄
                     <CLOCK SET>
              01-01-2005 SAT 00:00:00
                  <SUMMER TIME SET>
              MODE    :    USE
                       WEEK  MONTH  TIME
              ON   LST-SUN   03    02:00
              OFF  LST-SUN   10    02:00
                  <EXT.CLOCK SET>
              ADJUST. TIME        01:00
```

## 5 Turn the jog dial to select the language and then turn the shuttle dial clockwise.

The language is selected and the cursor moves to the next item.

```
                    <REGL.LANGUE>
                     FRANCAIS
                    <REGL.HORLOGE>
              01-01-2005 SAM 00:00:00
                    <HEURE D'ETE>
              MODE    :    MARCHE
                       SEMAINE  MOIS  HEURE
              ON   DER-DIM   03    02:00
              OFF  DER-DIM   10    02:00
                  <REGL.HORLOGE EXTERNE>
              REGL.DE L'HEURE     01:00
```

## 6 Press the [EXIT/OSD] button.

The setting is completed and the display returns to the normal screen.
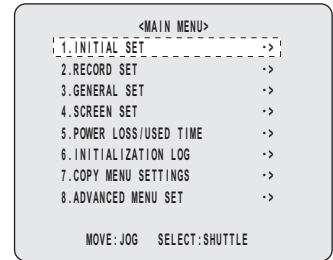
EXIT/OSD

### Setting the time

(Default setting: 01-01-2005 SAT 00:00:00)
Be sure to set the correct date and time as these settings are used during playback and searching.

**Example: Setting 8:30 on 26 October, 2005.**

## 1 Press the [MENU] button.

The MENU indicator lights up and the <MAIN MENU> is displayed.

MENU

```
                    <MAIN MENU>
              1.INITIAL SET              ·>
              2.RECORD SET               ·>
              3.GENERAL SET              ·>
              4.SCREEN SET               ·>
              5.POWER LOSS/USED TIME     ·>
              6.INITIALIZATION LOG       ·>
              7.COPY MENU SETTINGS       ·>
              8.ADVANCED MENU SET        ·>

                MOVE:JOG   SELECT:SHUTTLE
```

## 2 Turn the jog dial to select "1.INITIAL SET" and then turn the shuttle dial clockwise.

The <INITIAL SET> screen is displayed.

```
                    <INITIAL SET>
              1.LANGUAGE/CLOCK SET       ·>
              2.CAMERA DETECT            ·>
              3.TITLE SET                ·>
              4.HOLIDAY SET              ·>
              5.TIME PERIOD SET          ·>




                MOVE:JOG   SELECT:SHUTTLE
```

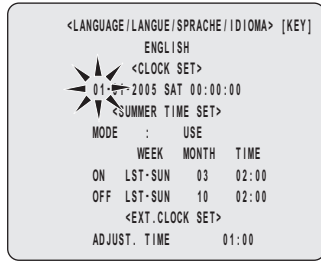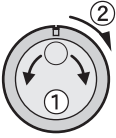## 3 Turn the jog dial to select "1.LANGUAGE/CLOCK SET" and then turn the shuttle dial clockwise.

The <LANGUAGE/LANGUE/SPRACHE/IDIOMA> screen is displayed.

```
              <LANGUAGE/LANGUE/SPRACHE/IDIOMA>
                      ENGLISH
                     <CLOCK SET>
              01-01-2005 SAT 00:00:00
                  <SUMMER TIME SET>
              MODE    :    USE
                       WEEK  MONTH  TIME
              ON   LST-SUN   03    02:00
              OFF  LST-SUN   10    02:00
                  <EXT.CLOCK SET>
              ADJUST. TIME        01:00
```

## 4 Turn the jog dial to select "01" and then turn the shuttle dial clockwise.

"01" flashes (indicating the day).

```
<LANGUAGE/LANGUE/SPRACHE/IDIOMA> [KEY]
              ENGLISH
           <CLOCK SET>
 01·   ·2005 SAT 00:00:00
          <SUMMER TIME SET>
    MODE   :    USE
            WEEK   MONTH   TIME
    ON  LST·SUN    03     02:00
    OFF LST·SUN    10     02:00
           <EXT.CLOCK SET>
    ADJUST. TIME        01:00
```

## 5 Turn the jog dial to select "26" and then turn the shuttle dial clockwise.

The day is set to "26" and the month "01" flashes.

26·01·2005 WED 00:00:00
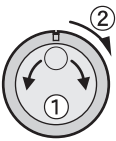
## 6 Use the same procedure to set the month (10), year (2005), hour (08) and minute (30).

When the minutes are set, the cursor moves to the next item.

26·10·2005 WED 08:30:00

- ● The day of the week is set automatically.
- ● The clock stops during date and time settings.
- ● The clock starts counting from 00 seconds.

## 7 Press the [EXIT/OSD] button.

The setting is completed and the display returns to the normal screen.

EXIT/OSD

**OPERATION**

**6** English

# 2 MONITORING VIDEO FROM A CAMERA

[MULTI] button — [ZOOM] button

Shuttle dial

[CAMERA SELECT] button

[PLUS] button    Jog dial

[QUAD] button
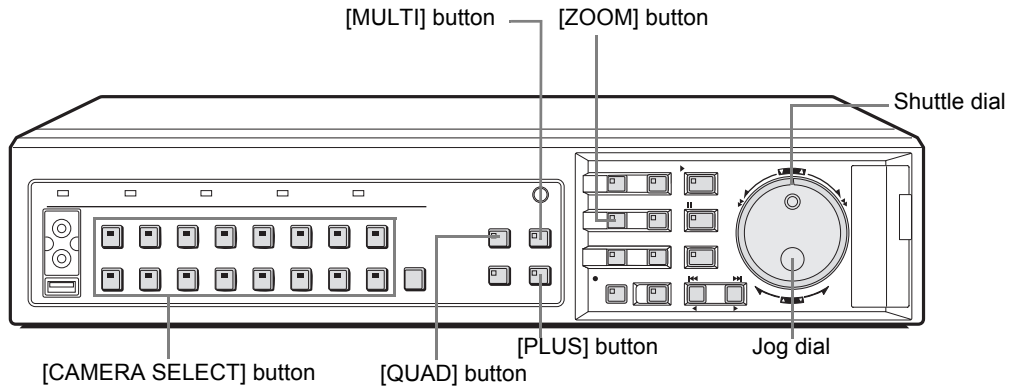
## Viewing on a full screen

**Example: Selecting Camera 2**

## 1 Press the No. 2 [CAMERA SELECT] button.

The CAMERA SELECT indicator lights up and video from Camera 2 is displayed on a full screen.
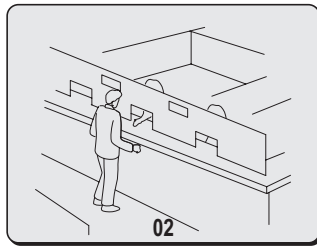
## Viewing enlarged live images

## 1 Press the [ZOOM] button during monitoring of camera video.

Press the button corresponding to the camera for which video is being magnified.
The ZOOM indicator lights up and a blue zoom frame appears in the center of the screen.
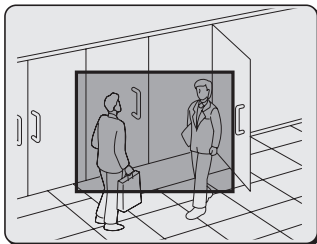
## 2 Move the zoom frame to the area to be magnified.

● Turn the jog dial to move the zoom frame to the left or right.
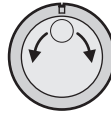
● Turn the shuttle dial clockwise and then turn the jog dial to move the zoom frame vertically.

Move the zoom frame to the area to be magnified.
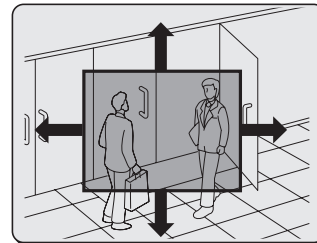
## 3 Turn the shuttle dial clockwise.

The area enclosed by the zoom frame is magnified (by a factor of 2).
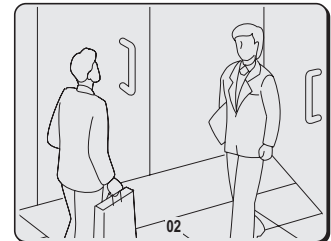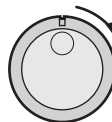
## 4   Press the [ZOOM] button to return to normal magnification.

Magnification is cancelled and the display returns to the normal screen.
The ZOOM indicator turns off.

ZOOM
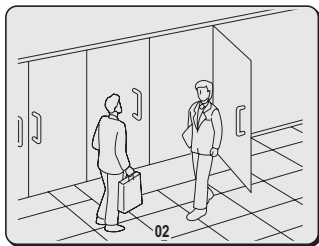
## CAUTION

● Magnified video has a slightly coarser appearance when compared with normal video.

NOTE ▶

● Images cannot be enlarged in multi-screen format.

### Viewing on quad screens

Images from multiple connected cameras can be displayed simultaneously.

## 1   Press the [QUAD] button.

The QUAD indicator lights up and video from four separate cameras is displayed simultaneously.
Video from Camera No. 1 through Camera No. 4 is initially displayed.
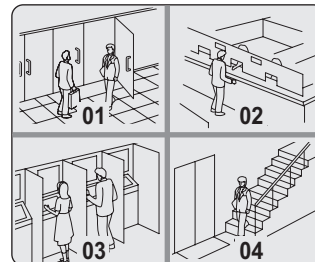
QUAD

## 2   To view video from other cameras, press the [QUAD] button again.

Each time this button is pressed, the four images on the quad screen change, in order of cameras No. 1-4, 5-8, 9-12 and 13-16 (default setting).
On the DSR-5009P, the images change in order of cameras No. 1-4, 5-8, 9-3, etc.

QUAD
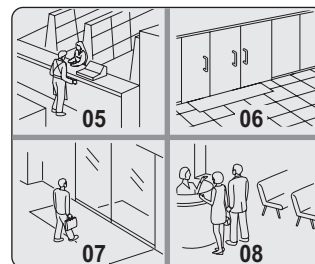
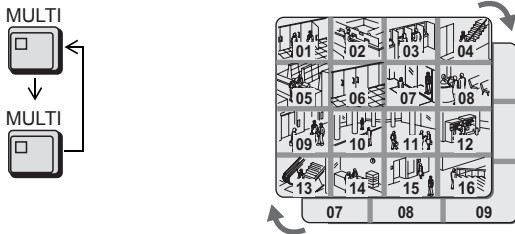## 3   To return to full screen display, press a [CAMERA SELECT] button.

1     16
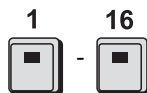
On the DSR-5009P, press the [CAMERA SELECT] 1-9 button.

**OPERATION**

## Viewing on multi 9 or multi 16 screens

## 1 Press the [MULTI] button.

The MULTI indicator lights up and video from 16 separate cameras is displayed simultaneously. Press the [MULTI] button again to display multi 9 screens.
The DSR-5009P can only display video from nine cameras.



NOTE ▶

● In the case of both quad and multi 9/16 screen display, you can change the positions in which video from the various cameras is displayed. (→INSTRUCTION MANUAL, P.126)

## 2 To return to full screen display, press a [CAMERA SELECT] button.
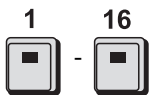


On the DSR-5009P, press the [CAMERA SELECT] 1-9 button.

## Enlarging video

Enlarges the video from a single camera to quad screen size during multi 9 or multi 16 screen display. (enlarged video)
In addition, video can also be enlarged during full screen and quad screen displays.
For DSR-5009P, this operation is available when in multi 9, quad and full screen display.

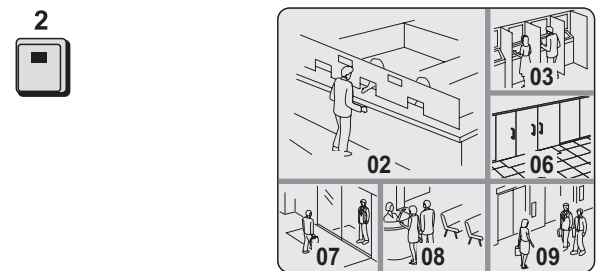**Example: Enlarging video during multi 9 screen display**

## 1 Press the [PLUS] button during multi 9 screen display.

The PLUS indicator lights up and the video from one camera is enlarged.
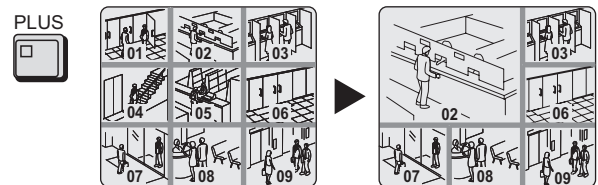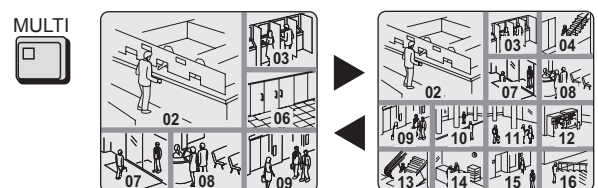


## 2 Press a [CAMERA SELECT] button.

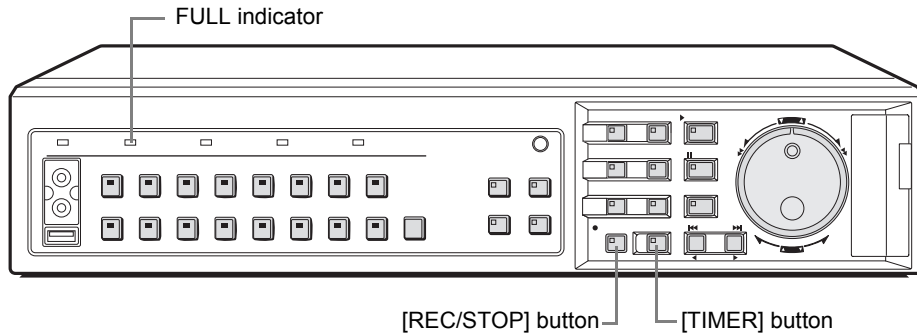The video from the selected camera is enlarged.



## 3 Press the [MULTI] button during plus screen display to change display.



## 4 Press the [PLUS] button to return to the screen from before enlarging video.

# 3 RECORDING

FULL indicator

[REC/STOP] button          [TIMER] button

## Normal recording

Use the following procedure to record monitored video.

### ⚠ CAUTION

● Be sure to set the time when using the digital video recorder for the first time. Recording is not possible until the time is set. (→P.5)

## 1   Press the [REC/STOP] button.

The REC/STOP indicator lights up, "REC" (i.e., the recording symbol) appears in the operation display and recording starts.

● REC/STOP

Recording symbol

01-01-05 00:00:00 REC REPEAT EN A

02

### ◖ NOTE ▶

● When recording for the first time, the default settings are used. (→INSTRUCTION MANUAL, P.83)
● When "OVERWRITE" on the <RECORDING CONDITIONS SET> screen is set to "OFF" and the space remaining in the recording area becomes insufficient, the FULL indicator begins to flash. If recording is continued beyond this point, the recording area becomes full and recording stops. Perform AREA FULL RESET to enable recording. (→INSTRUCTION MANUAL, P.79)
● Playback is possible even while recording. (→INSTRUCTION MANUAL, P.18)

## 2   Press and hold the [REC/STOP] button for approximately 3 seconds to end normal recording.

"REC" disappears from the operation display and recording ends.

● REC/STOP

## Timer recording

Use the following procedure to record monitored video for a preset length of time.
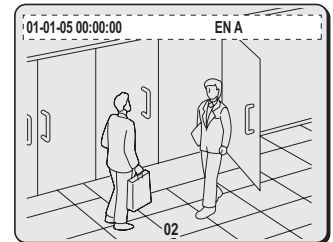
### ⚠ CAUTION

● Be sure to set the time when using the digital video recorder for the first time. Recording is not possible until the time is set. (→P.5)

## 1   Set timer recording. (→INSTRUCTION MANUAL)

## 2   Press the [TIMER] button.

The TIMER indicator lights up and the digital video recorder enters timer recording standby mode.

TIMER

01-01-05 00:00:00                    EN A

02

● At the time specified for the start of timer recording, the REC/STOP indicator lights up, "REC" (i.e., the recording symbol) appears in the operation display and recording starts.
● At the time specified for the end of timer recording, the REC/STOP indicator turns off and recording ends. The TIMER indicator remains lit. If the [TIMER] button is pressed, the TIMER indicator turns off.

### ◖ NOTE ▶

● When "OVERWRITE" on the <RECORDING CONDITIONS SET> screen is set to "OFF" and the space remaining in the recording area becomes insufficient, the FULL indicator begins to flash. If recording is continued beyond this point, the recording area becomes full and recording stops. Perform AREA FULL RESET to enable recording. (→INSTRUCTION MANUAL, "Setting overwrite permission", P.79)
● Playback is possible even while recording.

## 3   Press the [TIMER] button to end timer recording before the end time.

The TIMER indicator turns off and recording ends.

TIMER

## Alarm recording

Use the following procedure to record alarm video when an alarm signal is detected.

# 1 Set alarm recording. (→INSTRUCTION MANUAL, "Setting alarm recording", P.93)

# 2 When an alarm signal is detected

● When an alarm signal is detected, "ALARM" flashes in the operation display and alarm recording starts (indicated by "REC".)
● Whenever an alarm occurs, the number of alarms indicated in the operation display is incremented.



01-01-05 00:00:00 REC REPEAT EN ALARM 0000001
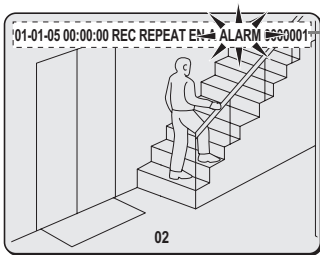
Counts the number of alarms.
Displays up to 9999999.
After 9999999, the counter returns to 0000000 and resumes counting from 1.

02

● If an alarm occurs during normal recording or timer recording, recording ends.
● A maximum of 1,000,000 alarm recordings can be made on one hard disk. The number of maximum recordings can be increased to 6,000,000 by expanding the optional hard disk. However, the maximum number of recordings is affected by set recording conditions. Be sure to check the menu settings and display content.

# 3 End alarm recording.

When the alarm duration has expired (default setting: 20 seconds), both "REC" and "ALARM" stop flashing on the operation display and recording stops.

## ⚠ CAUTION

● Be sure to set the time when using the digital video recorder for the first time. Recording is not possible until the time is set. (→P.5)
● When alarm recording total exceeds 1,000,000 and "OVERWRITE" on the <RECORDING CONDITIONS SET> screen is set to "ON", older recordings are overwritten even if the hard disk has remaining memory capacity.
Alarm recording is not performed when "OFF" is set.

### NOTE ▶

● When "OVERWRITE" on the <RECORDING CONDITIONS SET> screen is set to "OFF" and the space remaining in the recording area becomes insufficient, the FULL indicator begins to flash. If recording is continued beyond this point, the recording area becomes full and recording stops. Perform AREA FULL RESET to enable recording. (→INSTRUCTION MANUAL, P.79)
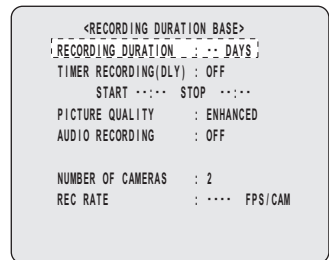
## Normal recording easy setup

Use the following procedures to make simple recording settings. Two different setting methods may be used -- one based on recording days; the other based on recording rate.
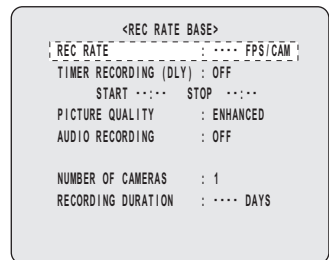
# 1 Set normal recording easy setup.

(1) Select "1. NORMAL REC EASY SET" from the <RECORD SET>.
(2) Select "RECORDING DURATION BASE" to make settings based on recording days; select "REC RATE BASE" to make settings based on recording rate.
(3) The setting screen is displayed. See INSTRUCTION MANUAL for more details on setting.
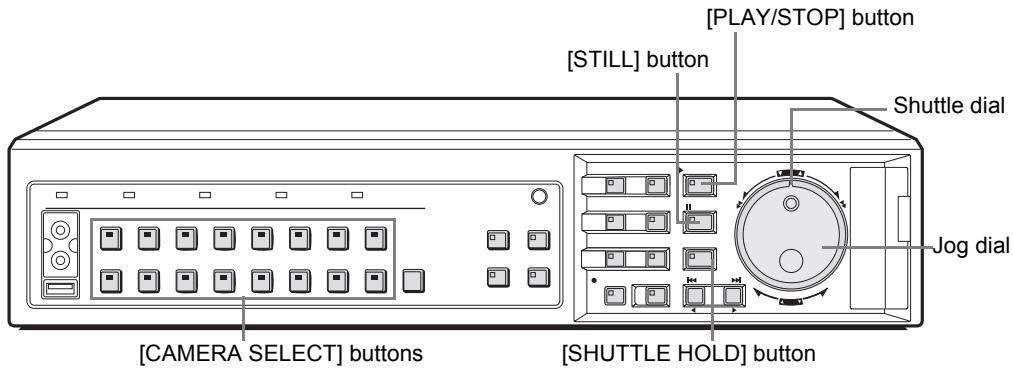
**RECORDING DURATION BASE**



```
        <RECORDING DURATION BASE>
 RECORDING DURATION   : -- DAYS
 TIMER RECORDING(DLY) : OFF
         START ··:··  STOP  ··:··
 PICTURE QUALITY      : ENHANCED
 AUDIO RECORDING      : OFF

 NUMBER OF CAMERAS    : 2
 REC RATE             : ···· FPS/CAM
```

**REC RATE BASE**



```
            <REC RATE BASE>
 REC RATE              : ···· FPS/CAM
 TIMER RECORDING (DLY) : OFF
          START ··:··  STOP  ··:··
 PICTURE QUALITY       : ENHANCED
 AUDIO RECORDING       : OFF

 NUMBER OF CAMERAS     : 1
 RECORDING DURATION    : ···· DAYS
```

# 2 Press the [EXIT/OSD] button.

The setting procedure is ended and the display returns to the normal screen.

EXIT/OSD

# 4 PLAY

Use the following procedure to play normal or timer recording video stored in the hard disk.

[PLAY/STOP] button

[STILL] button

Shuttle dial

Jog dial

[CAMERA SELECT] buttons

[SHUTTLE HOLD] button

## Playing video on a full screen

### 1 Press the [CAMERA SELECT] button for the camera to play and then press the [PLAY/STOP] button.

The PLAY/STOP indicator lights up and ▶ appears in the operation display. Normal or timer recording video is played back. To view video from another camera, press the [CAMERA SELECT] button of the desired camera.

▶ PLAY/STOP    Operation display area

`01-01-05 00:00:00  ▶        EN A`

`02`
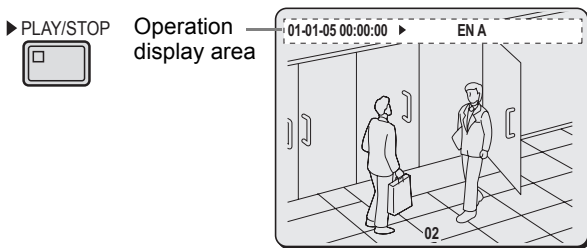
**NOTE**

● Video playback begins at the playback point where the previous recording ended.
● If the playback point has been reset, video playback begins from the earliest recording.
● If playback is stopped, the playback point is reset and playback resumes from that point when the [PLAY/STOP] button is next pressed.
● When playback ends, the operating display automatically indicates that playback is paused ( ❚❚ ) and the STILL indicator lights up.

### 2 Press the [PLAY/STOP] button to end playback.
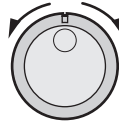
Playback ends.

▶ PLAY/STOP

#### ■ Playing video near the point of recording
The digital video recorder priorities recording operations, and as a result, video playback may pause temporarily.

## Fast-forward and fast-rewind playback

### 1 Turn the shuttle dial clockwise or counter-clockwise during video playback.

Turn the shuttle dial to use fast-forward and fast-rewind playback.
When turned clockwise, ▶▶ appears in the operation display and fast-forward playback begins.
When turned counter-clockwise, ◀◀ appears in the operation display and fast-rewind playback begins.
Fast-forward and fast-rewind speed increase the more the shuttle dial is turned.
Return the shuttle dial to continue normal playback.

**NOTE**

● Press the [SHUTTLE HOLD] button while either ◀◀ or ▶▶ is displayed to fix the speed of fast-forward or fast-rewind playback without having to hold the shuttle dial.
Press the [SHUTTLE HOLD] button again to continue normal playback.

## Viewing still images

Pause playback and display still images.

## 1 Press the [STILL] button during playback.

The STILL indicator lights up and playback video is paused.
❚❚ appears in the operation display.

❚❚STILL

01-01-05 00:00:00 ❚❚          EN A

02
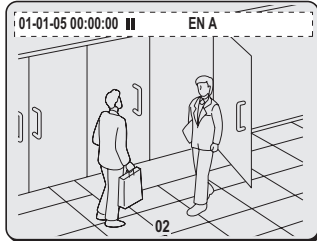
## 2 Press the [STILL] button again to resume normal playback.
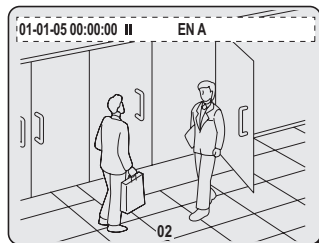
Normal playback is resumes.

❚❚STILL

## Frame advance (forward/reverse)

## 1 Turn the jog dial while playback is paused.

Clockwise: The still image is moved forward by one frame or field.
Counter-clockwise: The still image is moved back by one frame or field.

01-01-05 00:00:00 ❚❚          EN A

02

### ⚠ CAUTION

● If normal, fast-forward or fast-rewind playback is performed either for playback during alarm recording or for continuous playback from the normal recording area and alarm recording area, the image may appear to pause in certain cases.

▶ NOTE ▶

● The jog dial can be turned to increase the speed of frame advance.

[FUNC.] button    [SEARCH] button

Shuttle dial
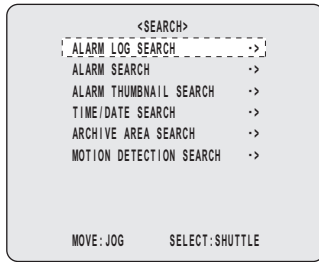
Jog dial
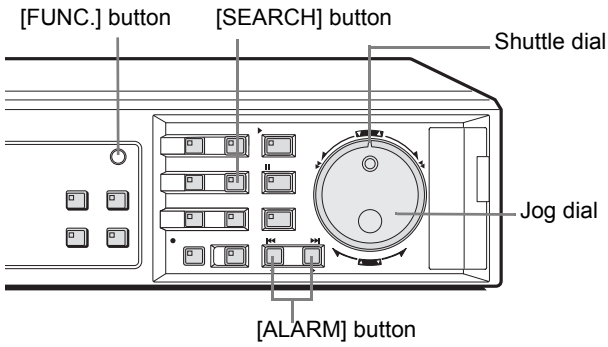
[ALARM] button

## Alarm log search

Use the following procedure to perform an alarm search or alarm thumbnail search by defining the period (month, week, day or time) of the alarm recorded video.

## 1 Press the [SEARCH] button while the digital video recorder is recording or stopped.

The SEARCH indicator lights up and the <SEARCH> screen is displayed.

SEARCH

```
                <SEARCH>
 ALARM LOG SEARCH          ·>
 ALARM SEARCH              ·>
 ALARM THUMBNAIL SEARCH    ·>
 TIME/DATE SEARCH          ·>
 ARCHIVE AREA SEARCH       ·>
 MOTION DETECTION SEARCH   ·>


     MOVE:JOG      SELECT:SHUTTLE
```

## 2 Turn the jog dial to select "ALARM LOG SEARCH" and then turn the shuttle dial clockwise.

The <ALARM LOG SEARCH> screen is displayed.
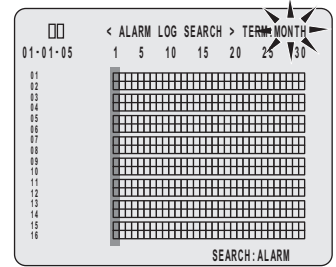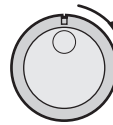
Date, day or time

Camera number
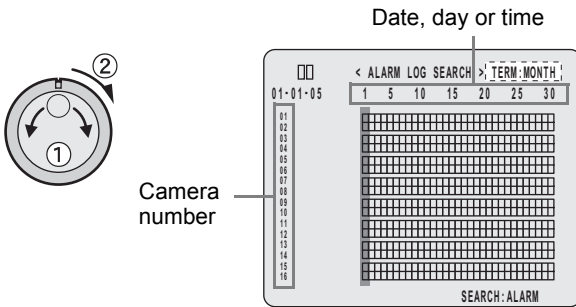
On the DSR-5009P, cameras No. 01-09 are displayed.

Video stored in the recording area or archive area can be located by searching and then played back. Use one of six search methods to locate the required video.
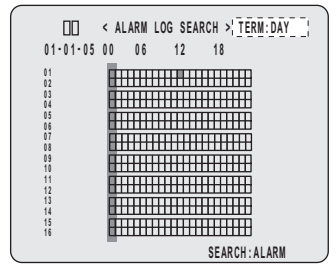
Archive area

Recording area
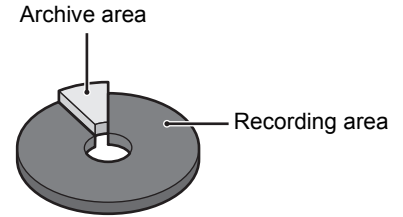
## 3 Turn the shuttle dial clockwise.

The "TERM" setting flashes.

## 4 Turn the jog dial to select "TERM" and then turn the shuttle dial clockwise.

The screen display changes to reflect the specified period. Press the ◄◄ or ►► [ALARM] button to change the month/week/date/time.

[Settings] (◆ indicates default setting)

| Setting | Description |
| --- | --- |
| ◆MONTH | Displays one month. |
| WEEK | Displays one week. |
| DAY | Displays one day. |
| HOUR | Displays one hour. |

OPERATION

# 5 Turn the jog dial to select the date, time or minute and then turn the shuttle dial clockwise.

The selected day (or hour or minutes) is indicated with a yellow frame.
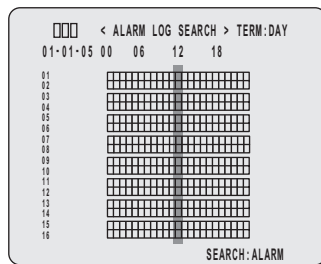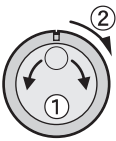Alarm recording areas are indicated in red and areas with no recordings in gray.
Reselecting the area cancels the original selected area.

## ■ To confirm normal recording

Press the [FUNC.] button to search for normal recording. A blue mark is displayed at the top left of the screen, and normally recorded parts are displayed in blue. (The search for normal recording may take some time.)
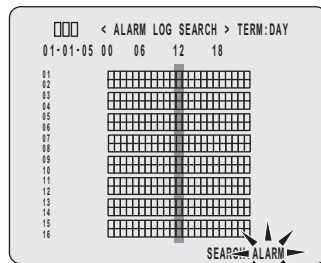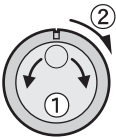To abort the search, turn the shuttle dial counter-clockwise.



```
□□□  < ALARM LOG SEARCH > TERM:DAY
01-01-05 00    06    12    18
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
                           SEARCH:ALARM
```

NOTE ▶

● If "MONTH" is selected in step 4 above, each frame represents one day. If "WEEK" is selected, four frames represent one day. If "DAY" is selected, each frame represent one hour. If "HOUR" is selected, each frame represents two minutes.
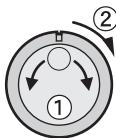
# 6 Turn the jog dial to select "SEARCH" and then turn the shuttle dial clockwise.

"ALARM" flashes.



```
□□□  < ALARM LOG SEARCH > TERM:DAY
01-01-05 00    06    12    18
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
                        SEARCH:ALARM
```

# 7 Turn the jog dial to select "ALARM" or "THUMBNAIL" and then turn the shuttle dial clockwise.

Now perform alarm search (→P.15) or alarm thumbnail search (→P.18).
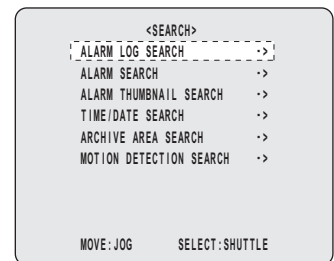


[Settings] (◆ indicates default setting)

| Setting | Description |
|---|---|
| ◆ALARM | The <ALARM SEARCH> screen (→P.15) is displayed and the search results are displayed in a list. |
| THUMBNAIL | The <ALARM THUMBNAIL SEARCH> screen (→P.18) is displayed and the search results are displayed in a list. |

## Alarm search

Use the following procedure to search and play back alarm video. If pre-alarm video is being recorded, video from immediately before the alarm can also be played back.

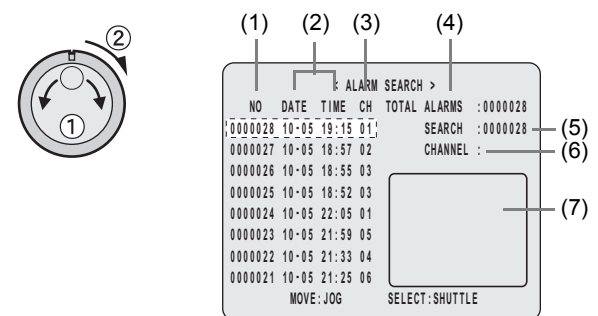# 1 Press the [SEARCH] button while the digital video recorder is recording or stopped.

The SEARCH indicator lights up and the <SEARCH> screen is displayed.

SEARCH



```
            <SEARCH>
ALARM LOG SEARCH         ·>
ALARM SEARCH             ·>
ALARM THUMBNAIL SEARCH   ·>
TIME/DATE SEARCH         ·>
ARCHIVE AREA SEARCH      ·>
MOTION DETECTION SEARCH  ·>

MOVE:JOG       SELECT:SHUTTLE
```

# 2 Turn the jog dial to select "ALARM SEARCH" and then turn the shuttle dial clockwise.

The <ALARM SEARCH> screen is displayed.
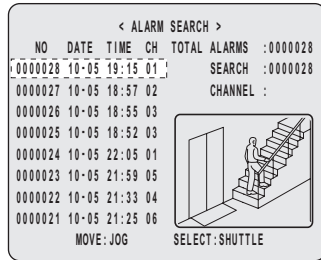This screen lists the eight most recent alarm recordings.



```
         (1)    (2) (3)        (4)
              < ALARM SEARCH >
    NO   DATE  TIME CH  TOTAL ALARMS  :0000028
  0000028 10-05 19:15 01      SEARCH   :0000028  — (5)
  0000027 10-05 18:57 02      CHANNEL  :  — (6)
  0000026 10-05 18:55 03
  0000025 10-05 18:52 03
  0000024 10-05 22:05 01                          — (7)
  0000023 10-05 21:59 05
  0000022 10-05 21:33 04
  0000021 10-05 21:25 06
         MOVE:JOG      SELECT:SHUTTLE
```

**(1) NO:**
Indicates the alarm number.

**(2) DATE/TIME:**
Indicates the date and time at which the alarm video was recorded.

**(3) CH:**
Indicates the alarm video's channel (or camera number).

**(4) TOTAL ALARMS:**
Indicates the total number of alarm video recordings.

**(5) SEARCH:**
Search by specifying an alarm number. (→P.16)

**(6) CHANNEL:**
Search by specifying a camera number. (→P.17)

**(7) Preview:**
Displays the selected alarm video.

# 3    Turn the jog dial to select the video for playback from the list.

A preview of the selected alarm video is displayed in the preview screen. In this case, the video at the time the alarm occurred is displayed.
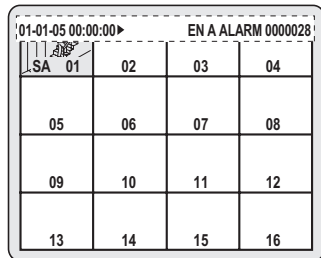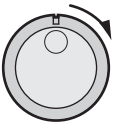
```
                         < ALARM SEARCH >
          NO   DATE   TIME  CH  TOTAL ALARMS : 0000028
          0000028  10-05  19:15  01       SEARCH  : 0000028
          0000027  10-05  18:57  02       CHANNEL :
          0000026  10-05  18:55  03
          0000025  10-05  18:52  03
          0000024  10-05  22:05  01
          0000023  10-05  21:59  05
          0000022  10-05  21:33  04
          0000021  10-05  21:25  06
               MOVE : JOG      SELECT : SHUTTLE
```

● **To display the next or previous recording**
Turn the jog dial clockwise or counter-clockwise accordingly.
● Press the ▶▶| [ALARM] button to display the next eight recordings, and |◀◀ for the previous eight recordings.

| NOTE ▶

● To end search mode
Press the [SEARCH] button. The SEARCH indicator turns off.

# 4    Turn the shuttle dial clockwise.

The selected recording is played back on multi 16 screens. Playback is also available for another camera image being recorded simultaneously.
On the DSR-5009P, the recording is played back on multi 9 screens.

```
01-01-05 00:00:00 ▶          EN A ALARM 0000028
 SA   01        02        03        04

      05        06        07        08

      09        10        11        12

      13        14        15        16
```

| NOTE ▶

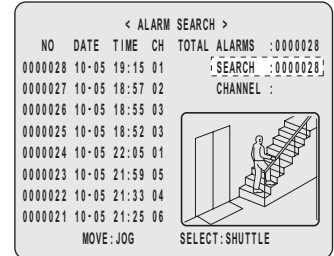● When searching by specifying a camera number, playback is performed on a full screen.

## ■ To view pre-alarm video

After beginning playback of an alarm video identified by an alarm search, use the shuttle dial to reverse playback.

---
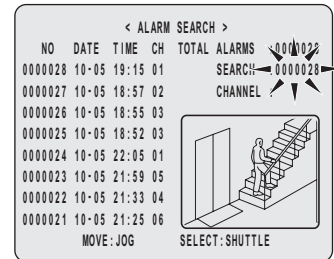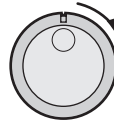
**Entering an alarm number to search for an alarm video**

# 1    In the search screen, press the [FUNC.] button and select "SEARCH".

FUNC.

```
                         < ALARM SEARCH >
          NO   DATE   TIME  CH  TOTAL ALARMS : 0000028
          0000028  10-05  19:15  01       SEARCH  : 0000028
          0000027  10-05  18:57  02       CHANNEL :
          0000026  10-05  18:55  03
          0000025  10-05  18:52  03
          0000024  10-05  22:05  01
          0000023  10-05  21:59  05
          0000022  10-05  21:33  04
          0000021  10-05  21:25  06
               MOVE : JOG      SELECT : SHUTTLE
```

# 2    Turn the shuttle dial clockwise.

The "SEARCH" input field flashes.

```
                         < ALARM SEARCH >
          NO   DATE   TIME  CH  TOTAL ALARMS : 0000028
          0000028  10-05  19:15  01       SEARCH  : 0000028
          0000027  10-05  18:57  02       CHANNEL :
          0000026  10-05  18:55  03
          0000025  10-05  18:52  03
          0000024  10-05  22:05  01
          0000023  10-05  21:59  05
          0000022  10-05  21:33  04
          0000021  10-05  21:25  06
               MOVE : JOG      SELECT : SHUTTLE
```
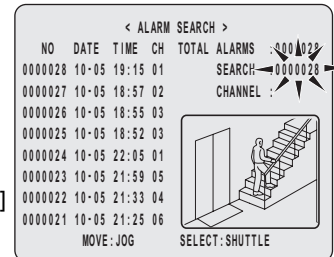
# 3    Turn the jog dial and shuttle dial to select an alarm number.

Turn the shuttle dial to move through the field and turn the jog dial to select individual numbers (0 through 9).
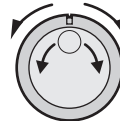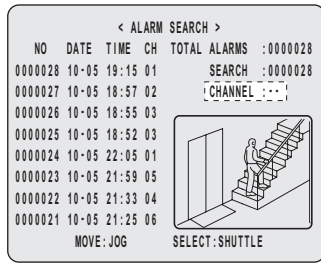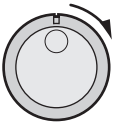
Numbers can be entered with the camera number 1-9 buttons or the [QUAD] button (0).

```
                         < ALARM SEARCH >
          NO   DATE   TIME  CH  TOTAL ALARMS : 0000028
          0000028  10-05  19:15  01       SEARCH  : 0000028
          0000027  10-05  18:57  02       CHANNEL :
          0000026  10-05  18:55  03
          0000025  10-05  18:52  03
          0000024  10-05  22:05  01
          0000023  10-05  21:59  05
          0000022  10-05  21:33  04
          0000021  10-05  21:25  06
               MOVE : JOG      SELECT : SHUTTLE
```
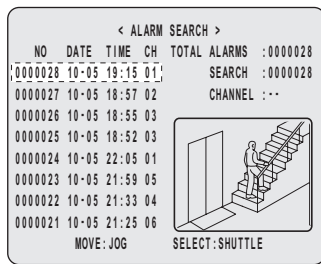
**OPERATION**

## 4 Turn the shuttle dial clockwise.

The alarm video with the specified number is displayed in the preview screen.
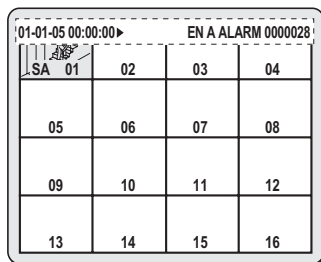Image numbers before the selected number are displayed in a list on the left of the screen.
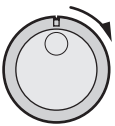
```
            < ALARM SEARCH >
  NO   DATE   TIME  CH  TOTAL ALARMS  :0000028
0000028 10-05 19:15 01      SEARCH  :0000028
0000027 10-05 18:57 02     CHANNEL :···
0000026 10-05 18:55 03
0000025 10-05 18:52 03
0000024 10-05 22:05 01
0000023 10-05 21:59 05
0000022 10-05 21:33 04
0000021 10-05 21:25 06
          MOVE:JOG      SELECT:SHUTTLE
```

## 5 Press the [FUNC.] button.

The cursor moves to the list.

FUNC.

```
            < ALARM SEARCH >
  NO   DATE   TIME  CH  TOTAL ALARMS  :0000028
0000028 10-05 19:15 01      SEARCH  :0000028
0000027 10-05 18:57 02     CHANNEL :··
0000026 10-05 18:55 03
0000025 10-05 18:52 03
0000024 10-05 22:05 01
0000023 10-05 21:59 05
0000022 10-05 21:33 04
0000021 10-05 21:25 06
          MOVE:JOG      SELECT:SHUTTLE
```

## 6 Turn the jog dial to select the alarm video for playback and then turn the shuttle dial clockwise.

The selected recording is played back on multi 16 screens.
Playback is also available for another camera image being recorded simultaneously.
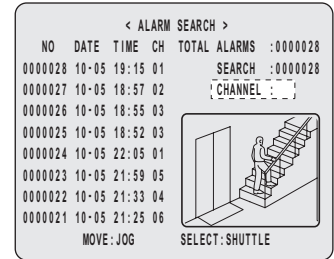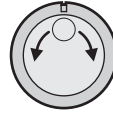On the DSR-5009P, the recording is played back on multi 9 screens.

```
01-01-05 00:00:00▶      EN A ALARM 0000028
 SA  01       02       03       04

     05       06       07       08

     09       10       11       12

     13       14       15       16
```

NOTE ▶

● When searching by specifying a camera number, playback is performed on a full screen.
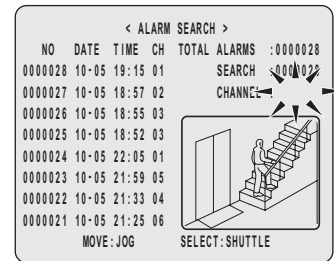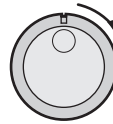
---

**Entering a camera number to search for an alarm video**

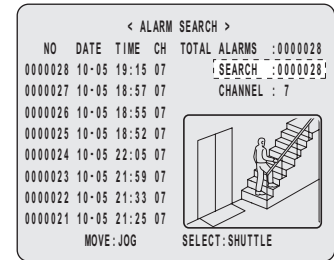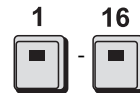## 1 In the search screen, press the [FUNC.] button and select "CHANNEL" with the jog dial.

FUNC.

```
            < ALARM SEARCH >
  NO   DATE   TIME  CH  TOTAL ALARMS  :0000028
0000028 10-05 19:15 01      SEARCH  :0000028
0000027 10-05 18:57 02     CHANNEL : _
0000026 10-05 18:55 03
0000025 10-05 18:52 03
0000024 10-05 22:05 01
0000023 10-05 21:59 05
0000022 10-05 21:33 04
0000021 10-05 21:25 06
          MOVE:JOG      SELECT:SHUTTLE
```

## 2 Turn the shuttle dial clockwise.

The "CHANNEL" input field flashes.

```
            < ALARM SEARCH >
  NO   DATE   TIME  CH  TOTAL ALARMS  :0000028
0000028 10-05 19:15 01      SEARCH  :0000028
0000027 10-05 18:57 02     CHANNEL
0000026 10-05 18:55 03
0000025 10-05 18:52 03
0000024 10-05 22:05 01
0000023 10-05 21:59 05
0000022 10-05 21:33 04
0000021 10-05 21:25 06
          MOVE:JOG      SELECT:SHUTTLE
```

## 3 Press the [CAMERA SELECT] button for the camera number to search.

The alarm video with the specified number is displayed in the preview screen.

**1** – **16**

```
            < ALARM SEARCH >
  NO   DATE   TIME  CH  TOTAL ALARMS  :0000028
0000028 10-05 19:15 07      SEARCH  :0000028
0000027 10-05 18:57 07     CHANNEL : 7
0000026 10-05 18:55 07
0000025 10-05 18:52 07
0000024 10-05 22:05 07
0000023 10-05 21:59 07
0000022 10-05 21:33 07
0000021 10-05 21:25 07
          MOVE:JOG      SELECT:SHUTTLE
```

## 4 Press the [FUNC.] button.

The cursor moves to the list.

FUNC.

```
           < ALARM SEARCH >
   NO  DATE  TIME  CH  TOTAL ALARMS : 0000028
 0000028 10-05 19:15 07       SEARCH  : 0000028
 0000027 10-05 18:57 07       CHANNEL : 7
 0000026 10-05 18:55 07
 0000025 10-05 18:52 07
 0000024 10-05 22:05 07
 0000023 10-05 21:59 07
 0000022 10-05 21:33 07
 0000021 10-05 21:25 07
           MOVE:JOG     SELECT:SHUTTLE
```

## 5 Turn the jog dial to select the alarm video for playback and then turn the shuttle dial clockwise.

```
'01-01-05 00:00:00 ▶       EN A ALARM 0000000

                              02
```
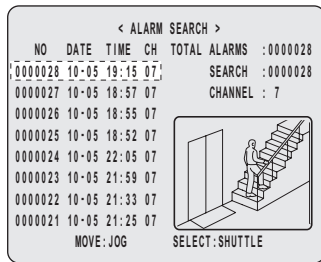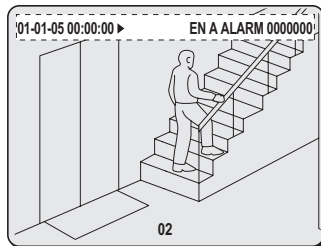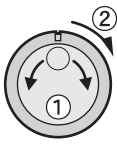
### To view alarm video before or after the current playback

## 1 Press the [ALARM] button during playback.

⏮ ALARM ⏭

```
'01-01-05 00:00:00 ▶       EN A ALARM 0000000

                              02
```
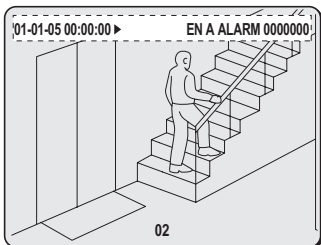
● Each time the ⏮ button is pressed, playback skips to the preceding alarm video.
● Each time the ⏭ button is pressed, playback skips to the subsequent alarm video.

NOTE ▶

● When playback is performed after an alarm search, the frame at the start and end of each alarm recording is paused.
  Press the [ALARM] button to play the previous or next recording.
● Use the front-panel buttons, the shuttle dial and the jog dial to perform operations such as pause and fast-forward.
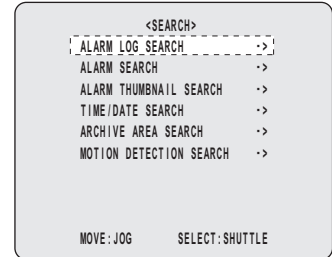
### Alarm thumbnail search

Use the following procedure to select alarm videos in the recording area from a thumbnail list.

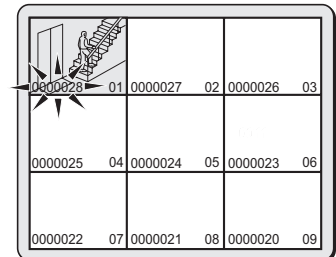## 1 Press the [SEARCH] button while the digital video recorder is recording or stopped.

The SEARCH indicator lights up and the <SEARCH> screen is displayed.

SEARCH

```
              <SEARCH>
   ALARM LOG SEARCH          ·›
   ALARM SEARCH              ·›
   ALARM THUMBNAIL SEARCH    ·›
   TIME/DATE SEARCH          ·›
   ARCHIVE AREA SEARCH       ·›
   MOTION DETECTION SEARCH   ·›



   MOVE:JOG     SELECT:SHUTTLE
```

## 2 Turn the jog dial to select "ALARM THUMBNAIL SEARCH" and then turn the shuttle dial clockwise.

This screen lists the nine most recent alarm recordings. An alarm number and camera number are indicated together with each alarm recording, and the number of the currently selected recording flashes.

```
 0000028 ▶ 01 | 0000027  02 | 0000026  03

 0000025  04 | 0000024  05 | 0000023  06

 0000022  07 | 0000021  08 | 0000020  09
```

OPERATION

# 3 Turn the jog dial to select the video for playback.

The alarm number for the selected video flashes.
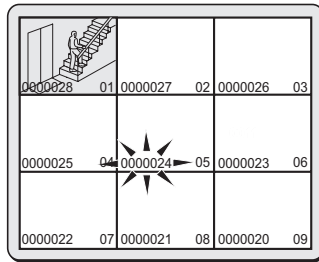
● To display the next or previous recording
  Turn the jog dial clockwise or counter-clockwise accordingly.
● Press the ▶▶│ [ALARM] button to display the next nine recordings, and │◀◀ for the previous nine recordings.

**NOTE** ▶
──────────────────────────────────────

● To end search mode
  Press the [SEARCH] button. The SEARCH indicator turns off.

# 4 Turn the shuttle dial clockwise.

The selected recording is played back on multi 16 screens. Playback is also available for another camera image being recorded simultaneously.
On the DSR-5009P, the recording is played back on multi 9 screens.
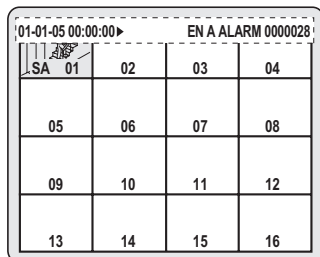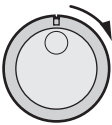
**CAUTION**
──────────────────────────────────────

● In the same way as for alarm searching, only alarm recordings can be played back. Press the [ALARM] button to play the previous or next recording.

**NOTE** ▶
──────────────────────────────────────

● When searching by specifying a camera number, playback is performed on a full screen. (→P.20)

---

**Search by entering an alarm number**
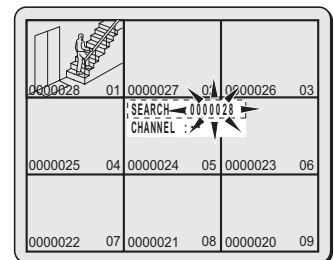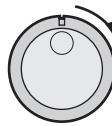
# 1 In the search screen, press the [FUNC.] button.

The "SEARCH" and "CHANNEL" input fields are displayed.
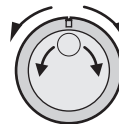
FUNC.
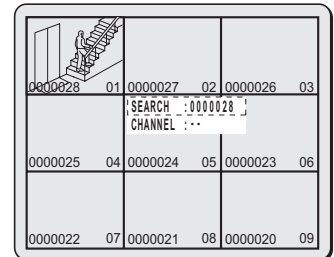
# 2 Turn the shuttle dial clockwise.
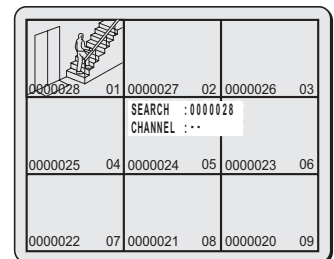
The "SEARCH" input field flashes.

# 3 Select alarm number by turning the jog dial and shuttle dial.

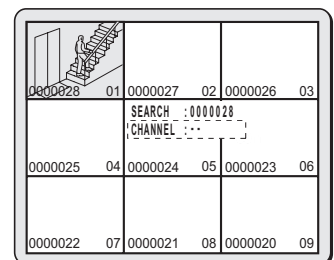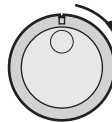Move the unit place with the shuttle dial and select numbers 0-9 with the jog dial.

Numbers can be entered with the camera number 1-9 buttons or the [QUAD] button (0).
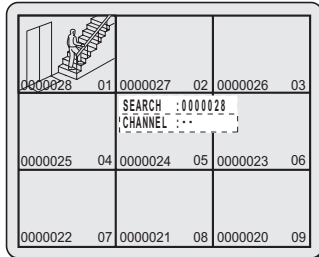
# 4 Turn the shuttle dial clockwise.

The specified number alarm is searched for and thumbnails are displayed.
Press the [FUNC.] button to cancel SEARCH and CHANNEL input fields.

## Search by entering a camera number

### 1 In the search screen, press the [FUNC.] button and select "CHANNEL" with the jog dial.

FUNC.

### 2 Turn the shuttle dial clockwise.

The "CHANNEL" input field flashes.

### 3 Press the [CAMERA SELECT] button for the camera number to search.
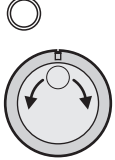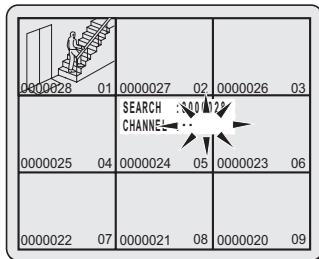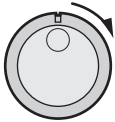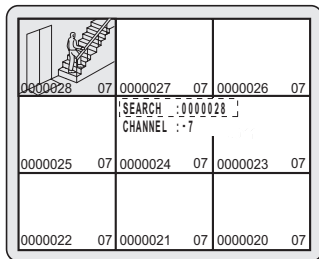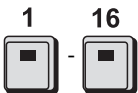
The specified camera number alarm is searched for and thumbnails are displayed.
Press the [FUNC.] button to cancel SEARCH and CHANNEL input fields.

1  16

### 4 Turn the shuttle dial clockwise.

## Time/date search

Search and play back video in the recording area (normal recording, timer recording, alarm recording) by specifying camera number, date, or time.

**Example:  To search for a recording from camera 5 from 8:30 pm on 26 October, 2005**

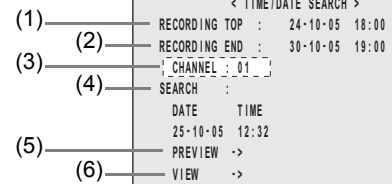### 1 Press the [SEARCH] button while the digital video recorder is recording or stopped.

The SEARCH indicator lights up and the <SEARCH> screen is displayed.

SEARCH

```
                  <SEARCH>
 ALARM LOG SEARCH           ·>
 ALARM SEARCH               ·>
 ALARM THUMBNAIL SEARCH     ·>
 TIME/DATE SEARCH           ·>
 ARCHIVE AREA SEARCH        ·>
 MOTION DETECTION SEARCH    ·>


 MOVE:JOG      SELECT:SHUTTLE
```

### 2 Turn the jog dial to select "TIME/DATE SEARCH" and then turn the shuttle dial clockwise.

The <TIME/DATE SEARCH> screen is displayed.

```
            < TIME/DATE SEARCH >
 RECORDING TOP  :   24·10·05  18:00
 RECORDING END  :   30·10·05  19:00
 CHANNEL : 01
 SEARCH    :
      DATE     TIME
      25·10·05  12:32
 PREVIEW  ·>
 VIEW     ·>

       CHANGE:JOG     SET:SHUTTLE
```

**(1)  RECORDING TOP:**
Indicates the date/time of the earliest video recording.

**(2)  RECORDING END:**
Indicates the date/time of the most recent video recording.

**(3)  CHANNEL:**
Input a camera number to search.

**(4)  SEARCH:**
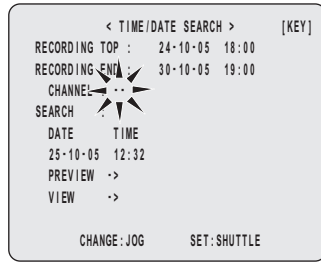Input date and time to search.

**(5)  PREVIEW:**
Select this option and turn the shuttle dial clockwise to display the preview screen.

**(6)  VIEW:**
Select this option and turn the shuttle dial clockwise to play the recording.
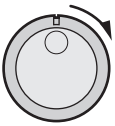
# 3 Turn the shuttle dial clockwise while "CHANNEL" is selected.

The "CHANNEL" input field flashes.

```
                    < TIME/DATE SEARCH >        [KEY]
RECORDING TOP  :    24-10-05  18:00
RECORDING END  :    30-10-05  19:00
  CHANNEL :  - -
SEARCH      :
  DATE      TIME
  25-10-05  12:32
  PREVIEW  ·>
  VIEW     ·>

        CHANGE:JOG        SET:SHUTTLE
```

# 4 Press the [CAMERA SELECT] 5 button.

The cursor moves to "DATE TIME".

```
                    < TIME/DATE SEARCH >
RECORDING TOP  :    24-10-05  18:00
RECORDING END  :    30-10-05  19:00
  CHANNEL : 05
SEARCH      :
  DATE      TIME
  25-10-05  12:32
  PREVIEW  ·>
  VIEW     ·>

        CHANGE:JOG        SET:SHUTTLE
```

# 5 Specify the date and time.

(1) Turn the shuttle dial clockwise and turn the jog dial to "26" (day).
(2) Turn the shuttle dial clockwise and turn the jog dial to "10" (month).
(3) Turn the shuttle dial clockwise and turn the jog dial to "05" (year).
(4) Turn the shuttle dial clockwise and turn the jog dial to "20" (hour).
(5) Turn the shuttle dial clockwise, turn the jog dial to "30" (minutes) and then turn the shuttle dial clockwise again.

The cursor moves to "PREVIEW"

Date and time for searching

```
 26-10-05       20 : 30
  ┬ ┬ ┬          ┬    ┬
 (1)(2)(3)      (4)  (5)
```

```
                    < TIME/DATE SEARCH >
RECORDING TOP  :    24-10-05  18:00
RECORDING END  :    30-10-05  19:00
  CHANNEL : 05
SEARCH      :
  DATE      TIME
  26-10-05  20:30
  PREVIEW  ·>
  VIEW     ·>

        CHANGE:JOG        SET:SHUTTLE
```
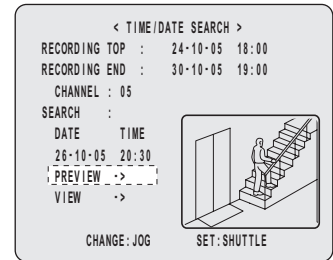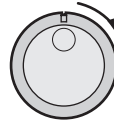
NOTE ▶
- Also use the [CAMERA SELECT] 1-9 button, or the [QUAD] button (0) to input.

# 6 Turn the shuttle dial clockwise.

"SEARCHING" is displayed and then the preview screen for the date and time settings is displayed.

```
                    < TIME/DATE SEARCH >
RECORDING TOP  :    24-10-05  18:00
RECORDING END  :    30-10-05  19:00
  CHANNEL : 05
SEARCH      :
  DATE      TIME
  26-10-05  20:30
  PREVIEW  ·>
  VIEW     ·>

        CHANGE:JOG        SET:SHUTTLE
```
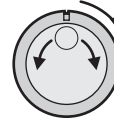
- If no recording exists for the specified time
  The closest recording to the specified time is displayed.

NOTE ▶
- To end search mode
  Press the [SEARCH] button to end search mode. The SEARCH indicator turns off.

# 7 Turn the jog dial to select "VIEW" and then turn the shuttle dial clockwise.

The selected recording is played back on the full screen.

NOTE ▶
- The retrieved recording can be displayed on the full screen without displaying the preview screen by entering the date and time and then selecting "VIEW".
- If "CHANNEL" is set to "- -" and playback is started, the recording is displayed on the multi 16 screens (on multi 9 screens for the DSR-5009P).
  Press the [CAMERA SELECT] button to view on a full screen.

# 6 SAVING (COPYING) RECORDED VIDEO

## Copying to a CompactFlash card or Microdrive

Use the following procedure to copy recording area or archive area video to a CompactFlash card or Microdrive.
The procedure is the same for copying to a CompactFlash card and Microdrive. (The maximum supported capacity for a Microdrive or CompactFlash card is 2 GB.)
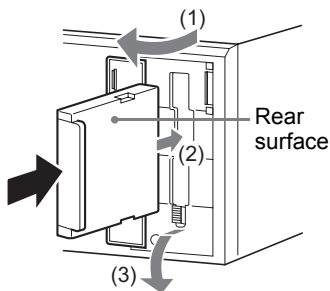
[PLAY/STOP] button
[STILL] button
Shuttle dial
Jog dial
[COPY] button
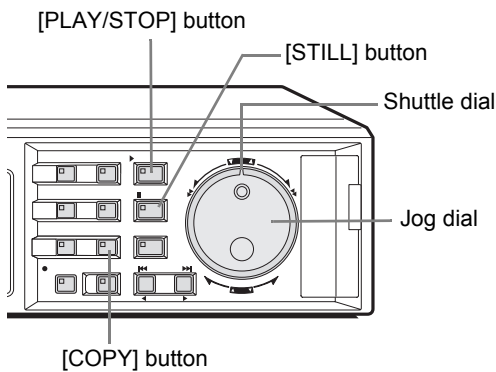
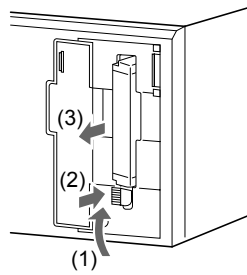**Example: Copying 20 images**

## 1 Insert a CompactFlash card.

Insertion method          Removal method

Rear surface

(1) Open the cover.
(2) Ensuring that it is correctly oriented, insert the CompactFlash card into the CompactFlash card slot.
(3) Fold down the lever.

(1) Raise the lever.
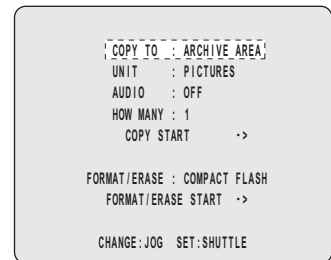(2) Push in the lever.
(3) Remove the CompactFlash card.

## 2 Play video to be copied on a full screen.

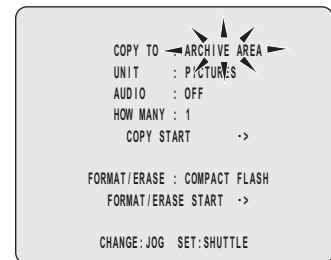## 3 Press the [STILL] button when the frame to be copied is displayed.

‖ STILL

## 4 Press the [COPY] button.

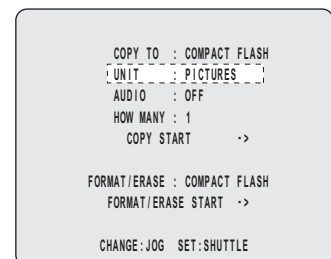The COPY indicator lights up and the copy setting screen is displayed.

COPY

```
COPY TO  : ARCHIVE AREA
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START      ·>

FORMAT/ERASE : COMPACT FLASH
  FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```

## 5 Turn the shuttle dial clockwise.

"ARCHIVE AREA" flashes.

```
COPY TO  ARCHIVE AREA
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START      ·>

FORMAT/ERASE : COMPACT FLASH
  FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```

## 6 Turn the jog dial to select "COMPACT FLASH" and then turn the shuttle dial clockwise.

The cursor moves to "UNIT".

```
COPY TO  : COMPACT FLASH
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START      ·>

FORMAT/ERASE : COMPACT FLASH
  FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```
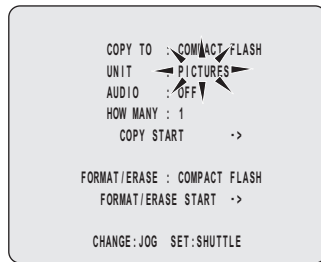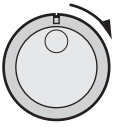
⚠ **CAUTION**

● Up to 40,000 images can be copied in a single operation. When specifying the number of images using "TIME", copying ends after 40,000 images are copied.
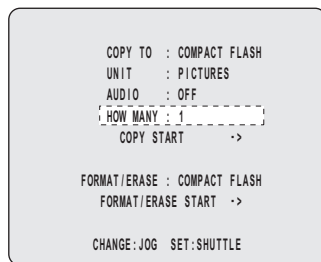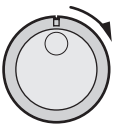● Alarm recordings can only be copied one event at a time.

OPERATION

# 7 Turn the shuttle dial clockwise.

"PICTURES" flashes.

```
COPY TO  : COMPACT FLASH
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START      ·>

FORMAT/ERASE : COMPACT FLASH
  FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```

# 8 Turn the shuttle dial clockwise while "PICTURES" is flashing.

The cursor moves to "HOW MANY".

```
COPY TO  : COMPACT FLASH
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START      ·>

FORMAT/ERASE : COMPACT FLASH
  FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```

[Settings] (◆ indicates default setting)
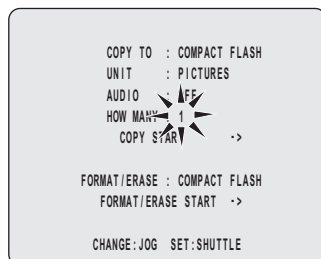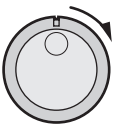
| Setting | Description |
|---------|-------------|
| ◆ PICTURES | The specified number of images after the specified location are copied. |
| TIME | The specified duration after the specified location is copied (TIME:minutes:seconds). |
| MAXIMUM | The maximum number of images allowable in the copy destination is copied or all the data from the copy source is copied. |

| NOTE |

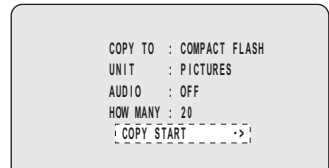● If audio is recorded, "ON" or "OFF" can be set for "AUDIO".
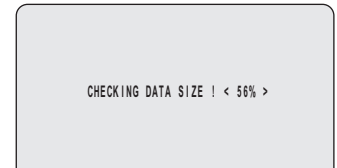
# 9 Turn the shuttle dial clockwise.

"1" flashes.

```
COPY TO  : COMPACT FLASH
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START      ·>

FORMAT/ERASE : COMPACT FLASH
  FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```

# 10 Turn the jog dial to select "20" and then turn the shuttle dial clockwise.

The cursor moves to "COPY START".

```
COPY TO  : COMPACT FLASH
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 20
   COPY START      ·>
```

# 11 Turn the shuttle dial clockwise.

The copy data and the capacity of the copy destination are checked.

```
CHECKING DATA SIZE ! < 56% >
```

The available space and write capacity are checked.

```
COPY TO    : COMPACT FLASH
  TYPE        : ·····
  FREE AREA   : 200MB
  DATA SIZE   : 130MB

   COPY START      ·>
```

The available space and write capacity are displayed and the cursor moves to "COPY START".

# 12 Turn the shuttle dial clockwise.

Copying begins. The message "COPY TO COMPACT FLASH !" is displayed on-screen during the copy procedure.

```
COPY TO COMPACT FLASH !  <  56% >
```

When copying is completed, "COPY FINISHED !" is displayed.

```
COPY FINISHED !  < 100% >
```
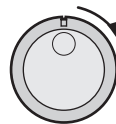
## ■ To cancel copying

Press the [COPY] button.

```
COPY CANCELED !  < 0% >
```

**⚠ CAUTION**

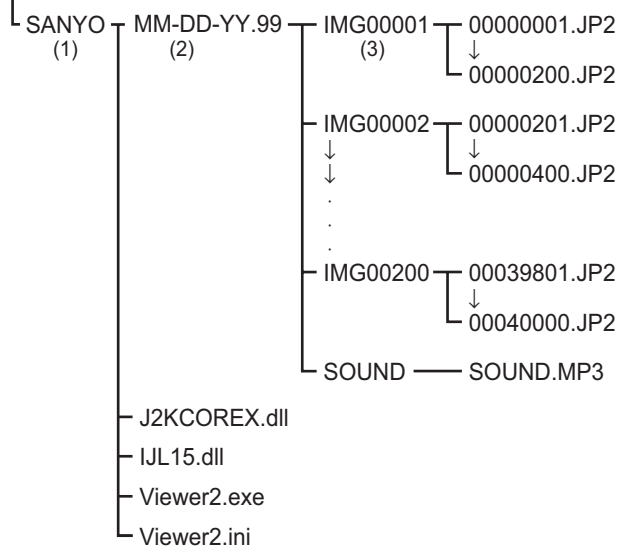● If the CompactFlash card becomes full during the copying process, the message "CARD FULL!" is displayed and copying ends. Press any button to return to the normal screen. Copying should now be repeated using a new CompactFlash card. If the CompactFlash card becomes full and copying ends, all data copied at the time the process ended is saved on the CompactFlash card.

### Viewing images copied to a CompactFlash card on a PC

When images are copied to a CompactFlash card, the following folders are created and images are saved within them.

CompactFlash card

```
└ SANYO ┬ MM-DD-YY.99 ┬ IMG00001 ┬ 00000001.JP2
   (1)         (2)      │   (3)    │      ↓
                        │          └ 00000200.JP2
                        │
                        ├ IMG00002 ┬ 00000201.JP2
                        │       ↓  │      ↓
                        │       ↓  └ 00000400.JP2
                        │          .
                        │          .
                        │          .
                        ├ IMG00200 ┬ 00039801.JP2
                        │          │      ↓
                        │          └ 00040000.JP2
                        │
                        └ SOUND ── SOUND.MP3
         ├ J2KCOREX.dll
         ├ IJL15.dll
         ├ Viewer2.exe
         └ Viewer2.ini
```

(1) A folder with the name "SANYO" is created inside the root directory.
(2) Within this folder, folders are created based on the date of copied images.
(3) Within each date folder, sub-directories are created in sequence starting with "IMG00001".
Each directory can hold up to 200 individual images.

**▶ NOTE ▶**

● To view recorded images on a PC, double-click "Viewer2.exe" to open the viewer and open the saved folder (date).

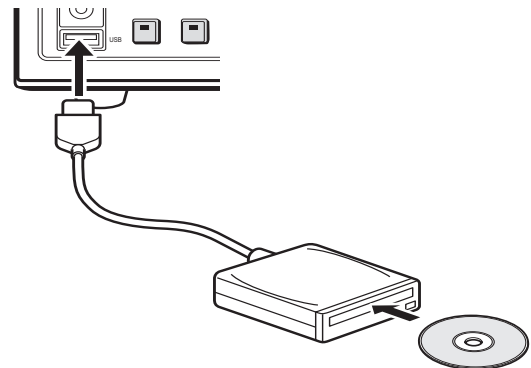### Copying to a CD-R/RW or DVD+R/+RW

Use the following procedure to copy recording area or archive area video to a CD-R/RW or DVD+R/+RW.
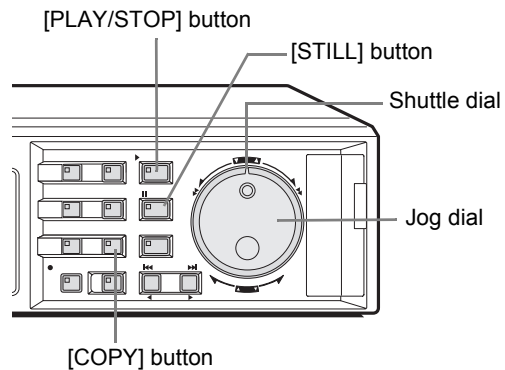


**Example: Copying the maximum video to the copy destination**

**▶ NOTE ▶**

● For compatibility, refer to the SANYO homepage.
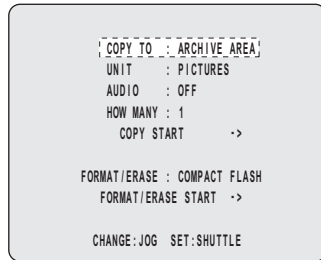http://www.sanyosecurity.com/

## 1 Connect a recordable CD or DVD drive and insert a disk.



**⚠ CAUTION**

● The digital video recorder has one USB terminal on the front and one on the back, but they cannot be used simultaneously. Connect recordable drive to either terminal. If both sides have devices connected, the front terminal is prioritized.

## 2 Play video to be copied on a full screen.

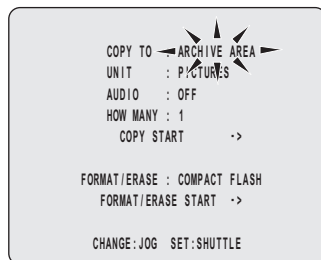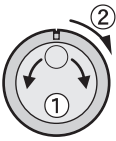## 3 Press the [STILL] button when the frame to be copied is displayed.

## 4   Press the [COPY] button.

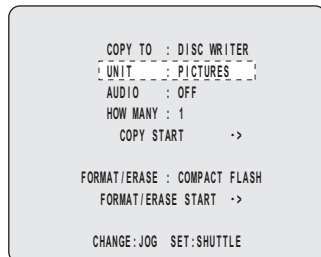The COPY indicator lights up and the copy setting screen is displayed.

COPY

```
COPY TO  : ARCHIVE AREA
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START        ·>

FORMAT/ERASE : COMPACT FLASH
   FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```

## 5   Turn the jog dial to select "COPY TO" and then turn the shuttle dial clockwise.

"ARCHIVE AREA" flashes.

```
COPY TO  ►ARCHIVE AREA◄
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START        ·>

FORMAT/ERASE : COMPACT FLASH
   FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```
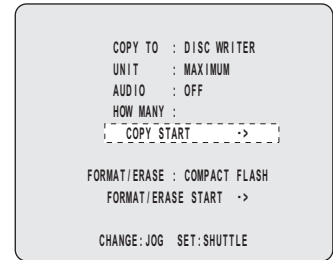
## 6   Turn the jog dial to select "DISC WRITER" and then turn the shuttle dial clockwise.

The cursor moves to "UNIT".

```
COPY TO  : DISC WRITER
UNIT     : PICTURES
AUDIO    : OFF
HOW MANY : 1
   COPY START        ·>

FORMAT/ERASE : COMPACT FLASH
   FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```
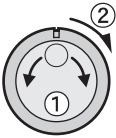
## 7   Turn the jog dial to select "MAXIMUM" and then turn the shuttle dial clockwise.

The cursor moves to "COPY START".

```
COPY TO  : DISC WRITER
UNIT     : MAXIMUM
AUDIO    : OFF
HOW MANY :
   COPY START        ·>

FORMAT/ERASE : COMPACT FLASH
   FORMAT/ERASE START  ·>

   CHANGE:JOG  SET:SHUTTLE
```

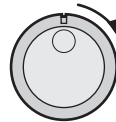[Settings] (◆ indicates default setting)

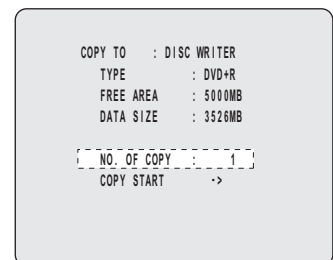| Setting | Description |
|---|---|
| ◆PICTURES | The specified number of images after the specified location are copied. |
| TIME | The specified duration after the specified location is copied (TIME:minutes:seconds). |
| MAXIMUM | The maximum number of images allowable in the copy destination is copied or all the data from the copy source is copied. |

**NOTE ▶**

● If audio is recorded, "ON" or "OFF" can be set for "AUDIO".

## 8   Turn the shuttle dial clockwise.

The copy data and the capacity of the copy destination are checked.

```
CHECKING DATA SIZE ! < 56% >
```

The available space and write capacity are checked.

```
COPY TO    : DISC WRITER
   TYPE       : DVD+R
   FREE AREA  : 5000MB
   DATA SIZE  : 3526MB

   NO. OF COPY  :    1
   COPY START        ·>
```

Free area write capacity is displayed and the cursor appears on "NO. OF COPY".

## 9 Turn the shuttle dial clockwise.

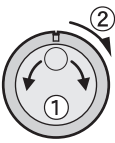The number of images flashes.

```
COPY TO    : DISC WRITER
   TYPE       : DVD+R
   FREE AREA  : 5000MB
   DATA SIZE  : 3526MB

   NO. OF COPY :    1
   COPY START
```

## 10 Turn the jog dial to set the number of images to copy, and turn the shuttle dial clockwise.
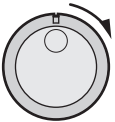
The cursor appears on "COPY START".

```
COPY TO    : DISC WRITER
   TYPE       : DVD+R
   FREE AREA  : 5000MB
   DATA SIZE  : 3526MB

   NO. OF COPY :    1
   COPY START      ·>
```

## 11 Turn the shuttle dial clockwise.

Copying begins. The message "COMPOSING IMAGE DATA!", then "COPY TO DISC WRITER" is displayed on screen during copying.

```
COMPOSING IMAGE DATA ! < 56% >
```

When copying is completed, "COPY FINISHED !" is displayed and the tray opens.
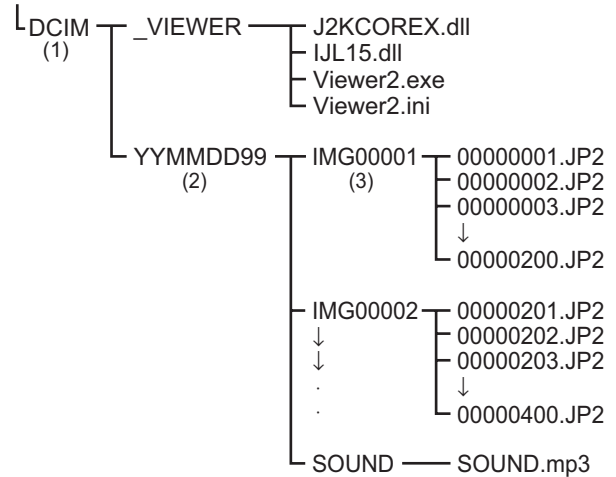
```
COPY FINISHED ! < 100% >

   NO. OF COPY :   1 / 2
   COPY START      ·>
   PLEASE SET A NEW DISC !
```

### Viewing images on a PC

Images copied to a CD-R/RW or DVD+R/+RW can be viewed on a PC.
When images are copied to a CD-R/RW or DVD+R/+RW, the following folders are created and images are saved within them.

CD-R/RW or DVD+R/+RW

```
DCIM ── _VIEWER ────── J2KCOREX.dll
 (1)                 ─ IJL15.dll
                     ─ Viewer2.exe
                     ─ Viewer2.ini

   └─ YYMMDD99 ── IMG00001 ── 00000001.JP2
       (2)          (3)      ─ 00000002.JP2
                             ─ 00000003.JP2
                             ↓
                             ─ 00000200.JP2

                  ── IMG00002 ── 00000201.JP2
                   ↓           ─ 00000202.JP2
                   ↓           ─ 00000203.JP2
                   .           ↓
                   .           ─ 00000400.JP2

                  └─ SOUND ──── SOUND.mp3
```

(1) The folder "DCIM" is created.
(2) Within this folder, folders are created based on the date (YY-MM-DD) of copied images.
(3) Within each date folder, sub-directories are created in sequence starting with "IMG00001".
    Each sub-directory can hold up to 200 individual images.

| NOTE |

● To view images on your PC, open the "YYMMDDXX" folder using the dedicated viewer. To open the viewer, double-click "Viewer2.exe".
  (The dedicated viewer and JPEG2000 plug-in are downloaded to the media with the images.)

OPERATION