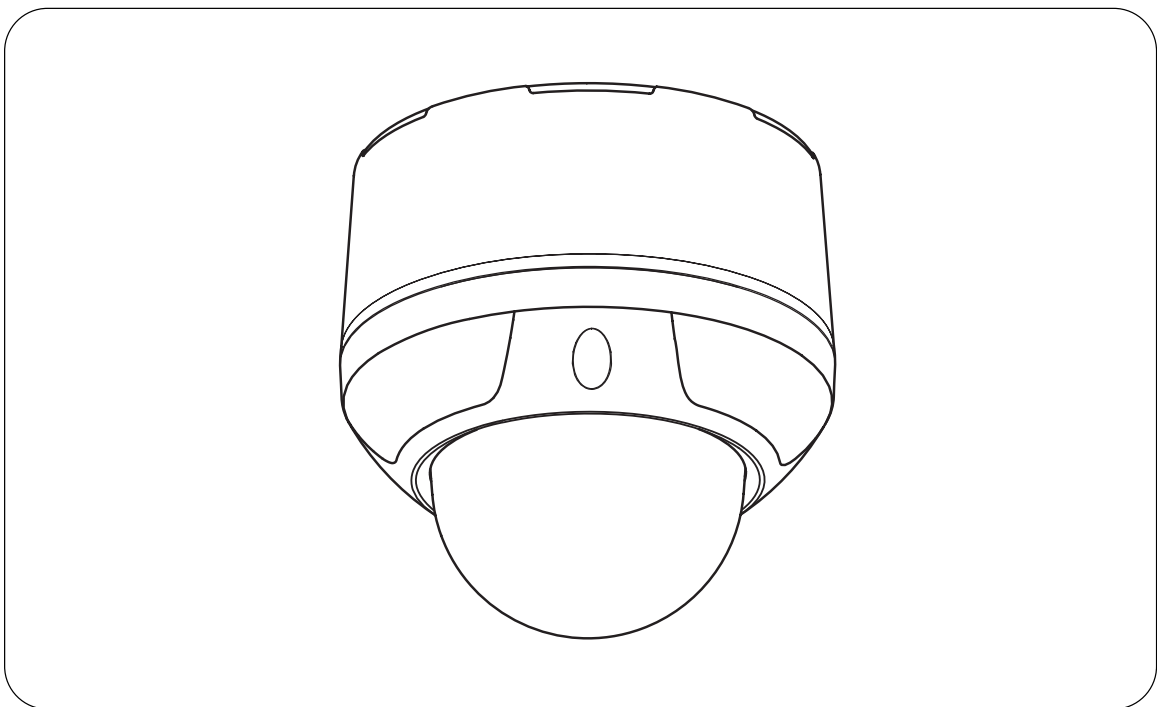




SETUP MANUAL

COMBINATION CAMERA

C-CC704 CU



Thank you for your purchasing TOA's Combination Camera. Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

TOA Corporation

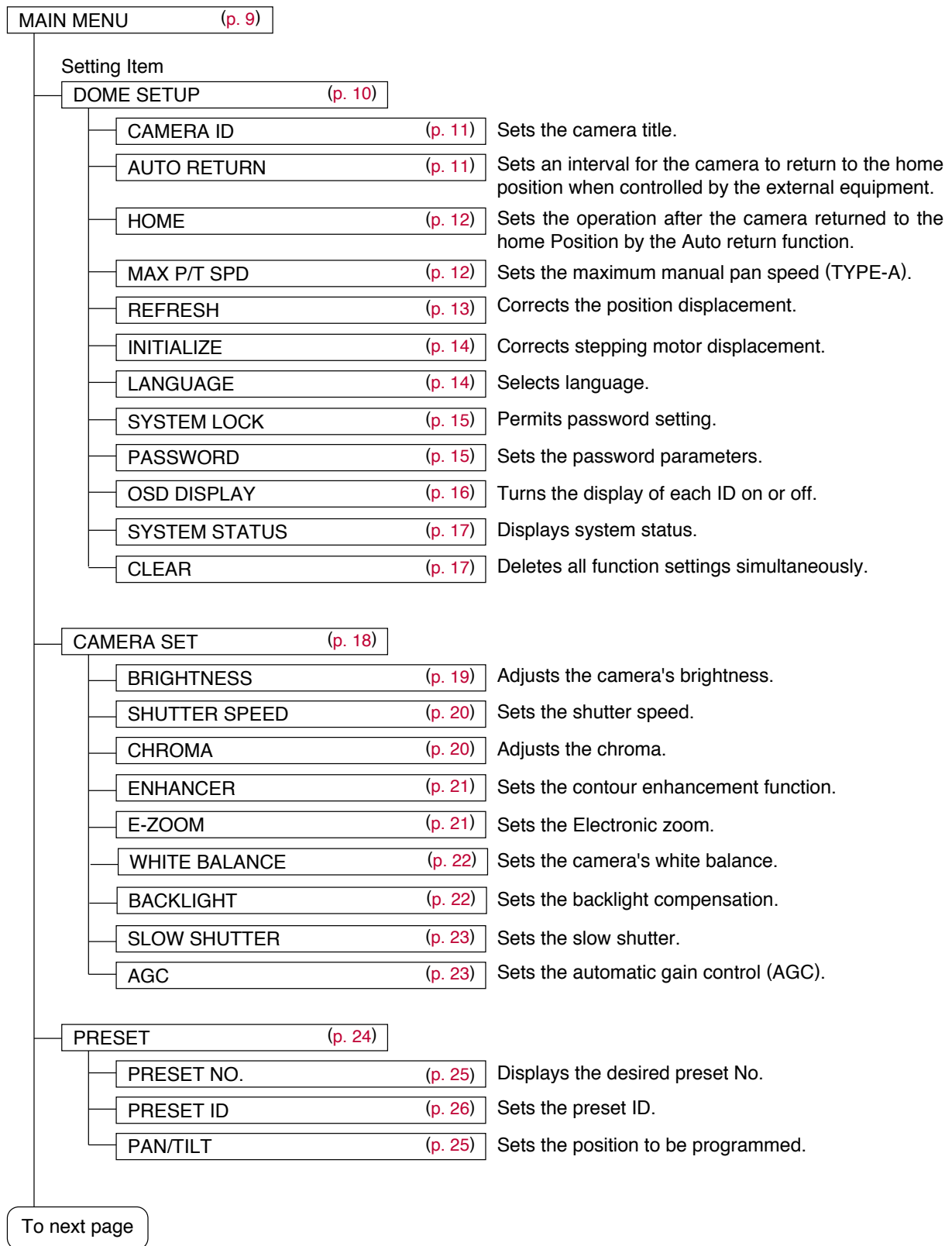
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1. SETTING ITEMS GUIDE

The camera menu screens are comprised of the following setting item screens.



From previous page

AUTO PAN (p. 27)

- AUTO PAN ID (p. 28)** Sets the Auto-Pan ID.
- START ANGLE (p. 28)** Sets the start point.
- END ANGLE (p. 28)** Sets the end point.
- DIRECTION (p. 28)** Sets the rotation direction.
- ENDLESS (p. 29)** Sets to enable or disable the limit.
- SPEED (p. 29)** Sets the Auto-Pan speed.
- PAUSE TIME (p. 29)** Sets the Auto-Pan pause duration.

TOUR (p. 30)

- TOUR NO. (p. 31)** Displays the desired Tour No.
- TOUR ID (p. 32)** Sets the tour ID.
- TOUR STEP (p. 31)** Displays the tour operation No.
- PRESET NO. (p. 31)** Sets the preset No. to be programmed.
- PAUSE TIME (p. 31)** Sets the pause duration between the steps.
- SPEED (p. 31)** Sets the preset speed between the steps.

PRIVACY MASK (p. 33)

- PRIVACY NO. (p. 34)** Displays the desired privacy mask No.
- DISPLAY (p. 34)** Turns the display of the mask on and off.
- ACTION (p. 34)** Sets the masking location and size.

TRACE (p. 36)

- TRACE NO. (p. 37)** Displays the desired trace No.
- TRACE ID (p. 38)** Sets the trace ID.
- EVENT FILL (p. 37)** Stores trace operation in memory.

ALARM (p. 39)

- ALARM NO. (p. 40)** Displays the desired alarm No.
- INPUT (p. 40)** Sets the input status of the alarm signal.
- ACTION (p. 40)** Sets the camera operation when the alarm signal is received.

SECTOR (p. 41)

- SECTOR NO. (p. 42)** Displays the desired sector No.
- SECTOR ID (p. 43)** Sets the sector ID.
- SECTOR START (p. 42)** Sets the sector start position.
- SECTOR END (p. 42)** Sets the sector end position.

2. BEFORE SETTING

2.1. About Address Display When Turning Power On

When the camera's power is turned on, the camera performs the initial operation (initializing operation). Simultaneously, the camera address screen, which displays the communication protocol, camera address, and baud rate, appears on the monitor. After the completion of the initial operation and peripheral device connections, the camera can be controlled and the camera address screen will disappear. Then, motor operation is checked, and the initial screen will disappear.

```

PROTOCOL :TYPE-B
CAMERA ID:001
BAUD RATE:38400 BPS

PAN ORIGIN CHECK OK
TILT ORIGIN CHECK OK
■ TX CONNECTION TEST 57
CAMERA COMM TEST ■
    
```

Note

TX CONNECTION TEST is a check item to see if the camera communicates with the controller.

The result "NG" is displayed in case of no connection or misconnection between the camera and the controller. There is no problem even if "NG" is displayed as long as the camera begins control with the controller after the completion of the initial operation (initializing operation).

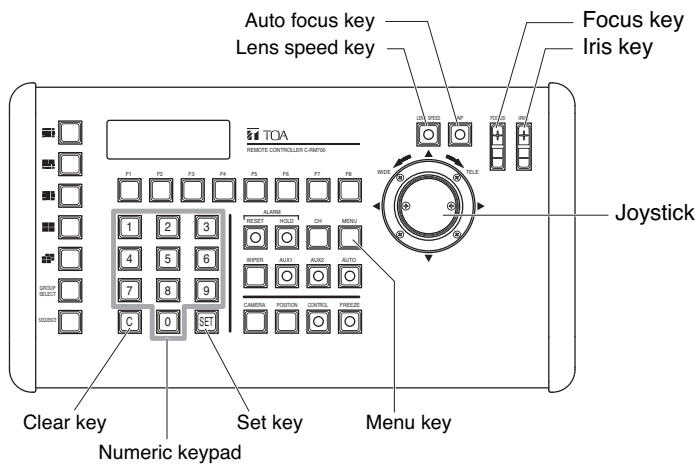
2.2. Keys Used for Setting

Use the equipment which controls the camera or the remote controller connected to such equipment to perform camera settings.

When the dedicated Remote Controller C-RM700 is connected

Use the joystick and each key on the C-RM700's top panel.

[C-RM700's top]



2.3. Basic Setting Operation

Menu screen display and some operations differ slightly depending on the equipment to be connected, but basic setting operations are the same for such equipment.

Explanation is given in reference to screens below. (The shaded rectangle ■ shows the cursor position.)

For details, refer to the instruction manual, operation manual, or setup manual enclosed with each equipment.

- **Menu key**

Use this key to enter or exit the menu screen.

[When the dedicated C-RM700 Remote Controller is connected]

Pressing the Menu key always terminates the menu screen regardless of any setting screen display.

- **Joystick (Tilt up, down, left, and right.)**

Tilting the joystick up or down moves the cursor position to select functions.

Tilting the joystick left or right changes the setting item.

Use the joystick when performing Preset Memory and Auto Operation settings or panning the camera.

- **Set key**

Changes the camera to pan mode.

- **Clear key**

Cancels password setting or deletes numbers entered incorrectly.

- **Numeric keypad**

Used to enter the camera number, position number, or password.

- **Joystick (Pan)**

Used to perform Preset Memory, zoom operation, or ID settings.

- **Focus key**

Used to perform Preset Memory or focus operation settings.

2.4. Operation Method

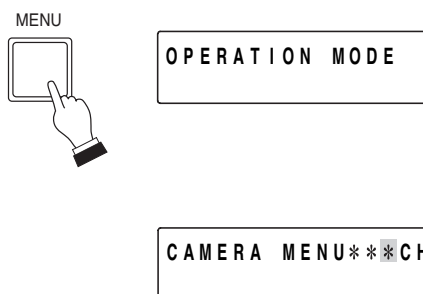
The following table shows the principal key operations for the Remote Controller to be connected.

| | C-RM700 |
|---|---|
| Menu screen display Menu screen exit | Menu key |
| Function selection | Tilting the joystick up or down |
| Setting item selection | Tilting the joystick left or right |
| Setting item confirmation | Tilting the joystick left or right Set key |
| Number clearing | Clear key |
| Camera No. input Position input | Numeric keypad |
| Manual operation | Joystick (Tilting up, down, left, right, and rotating.) Focus key |

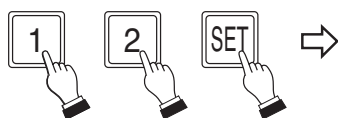
3. ENTERING THE CAMERA MENU SCREEN

When the C-RM700 is connected

1. Press the Menu key. (Enter the password with the numeric key pad if required.)
The menu screen is displayed on the dedicated Remote Controller's LCD.
2. Select "CAMERA MENU" with the joystick, then press the Set key.
The screen changes to ask for the camera number input to open the camera menu.
3. Enter the desired camera number with the numeric key pad, then press the Set key to confirm the number.
The main menu screen for the selected camera is displayed on the monitor.



(Example)



4. Select the desired item with the joystick, then perform setting on each setting screen.

4. DOME SETTING

4.1. Displaying the Dome Setting Screen

Tilt the joystick up or down to select the "DOME SETUP" on the main menu screen, then tilt the joystick right. Dome setting screen is displayed.

To display the next page, tilt the joystick up or down to select "NEXT PAGE," then tilt the joystick right.

To display the previous page, tilt the joystick up or down to select "PREVIOUS PAGE," then tilt the joystick right.

Dome setting

```
      DOME SET
CAMERA ID :CAM01■■■■■■■■■■
AUTO RETURN :OFF
HOME      :1POS
MAX P/T SPD :100°/S
REFRESH   :OFF
INITIALIZE :OFF
LANGUAGE  :ENGLISH
[NEXT PAGE]
SAVE AND EXIT
EXIT
```

Next page

```
      DOME SET
CAMERA ID :CAM01■■■■■■■■■■
AUTO RETURN :OFF
HOME      :1POS
MAX P/T SPD :100°/S
REFRESH   :OFF
INITIALIZE :OFF
LANGUAGE  :ENGLISH
[NEXT PAGE]
SAVE AND EXIT
EXIT
```

Previous page

```
      DOME SET
SYSTEM LOCK :OFF
[PASSWORD]
[OSD DISPLAY]
[SYSTEM STATUS]
[ CLEAR]
[PREVIOUS PAGE]
```

4.2. Exiting the Setting

Save changes and exit:

Tilt the joystick up or down to select the "SAVE AND EXIT" on the dome setting screen, then tilt the joystick right.

This saves the setting, and the display returns to the main menu screen.

Exit and lose changes:

Tilt the joystick up or down to select the "EXIT" on the dome setting screen, then tilt the joystick right.

This cancels changes and the display returns to the main menu screen.

Save changes and exit

```
      DOME SET
CAMERA ID :CAM01■■■■■■■■■■
AUTO RETURN :OFF
HOME      :1POS
MAX P/T SPD :100°/S
REFRESH   :OFF
INITIALIZE :OFF
LANGUAGE  :ENGLISH
[NEXT PAGE]
[SAVE AND EXIT]
EXIT
```

Exit

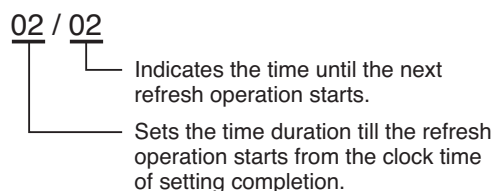
```
      DOME SET
CAMERA ID :CAM01■■■■■■■■■■
AUTO RETURN :OFF
HOME      :1POS
MAX P/T SPD :100°/S
REFRESH   :OFF
INITIALIZE :OFF
LANGUAGE  :ENGLISH
[NEXT PAGE]
SAVE AND EXIT
[EXIT]
```


4.7. Setting Refresh

If the camera with its power continuously kept on is used for long periods of time, the camera position may deviate when the preset position is played back. In such cases, deviation can be corrected using the Auto-refresh function. Also, if the camera's horizontal rotation contacts get dirty, the displayed image may become distorted when the camera pans or manual operation interrupted. To prevent these troubles, using the Auto-refresh function is recommended to clean horizontal rotation contacts periodically.

"OFF" : Not refreshed.

"00/24," "01/01" through "23/23" (one-hour intervals) :
Daily refresh operation can be set.



For example, when setting "02/02" on Sunday at 10:00 am, the first refresh operation starts at 00:00 pm, 2 hour later after setting, and the refresh function operates at 00:00 pm everyday afterward.

Notes

- The interval (one-day) for the refresh operation will deviate when the camera is used for extended period of time. If the time deviation is annoying, perform the setting for the refresh start time again.
- If the camera's power is shut off after performing the refresh operation setting, the refresh setting turns OFF. For example, the refresh setting is returned to OFF state at the time of the power failure. In such cases, perform the setting again.

1. Tilt the joystick up or down to select "REFRESH" on the dome setting screen.
2. Select "OFF," "00/24," or "01/01" through "23/23" by tilting the joystick left or right.

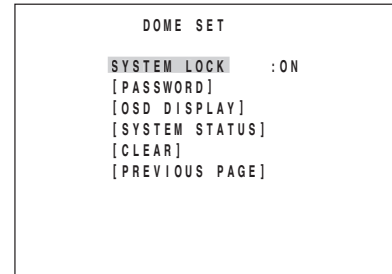
```
DOMEST SET
CAMERA ID :CAM01*****
AUTO RETURN :OFF
HOME :1POS
MAX P/T SPD :100°/S
REFRESH :OFF
INITIALIZE :OFF
LANGUAGE :ENGLISH
[NEXT PAGE]
SAVE AND EXIT
EXIT
```


4. 10. Setting the Password

Set the password required when activating the Camera menu screen.

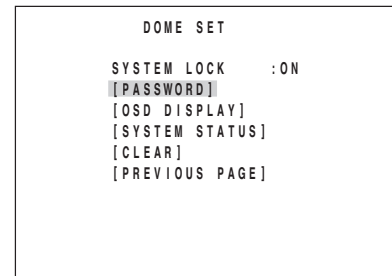
- ON: Displays the Password entry screen when entering the menu screen.
Password can be set.
- OFF: Allows to enter the maintenance screen without password verification.
Password cannot be set.

1. Tilt the joystick up or down to select "SYSTEM LOCK" on the dome setting screen.



2. Select "ON" by tilting the joystick left or right.

3. Tilt the joystick up or down to select "PASSWORD," then tilt the joystick right.
Password setting screen is displayed.



Note: It is not possible to enter "PASSWORD" without selecting "ON" for the system lock in Step 2.

4. Enter 3-digit password in the "PASSWORD" field.
Press the Set key each time when a digit is entered.

5. Enter the same password again in the "CONFIRM" field.
When the setting has been performed correctly, "OK!" is displayed.



Note

When the password has not been entered correctly, "FAIL!" is displayed.

It means that password has not been set. In such cases, enter the password again.

4.11. Setting Display Content

Contents to be displayed can be set by selecting "OSD DISPLAY" on the dome setting screen.

1. Tilt the joystick up or down to select "OSD DISPLAY" on the dome setting screen, then tilt the joystick right. OSD indication setting screen is displayed.

```

DOME SET
SYSTEM LOCK :ON
[PASSWORD]
[OSD DISPLAY]
[SYSTEM STATUS]
[CLEAR]
[PREVIOUS PAGE]
    
```

2. Tilt the joystick up or down to select the item to be changed.

3. Select "OFF" or "ON" (Select "1" or "2" for the LOCATION) by tilting the joystick left or right:

```

OSD DISPLAY
CAMERA :OFF
PRESET ID :OFF
AUTO PAN ID :OFF
TOUR ID :OFF
TRACE ID :OFF
SECTOR ID :OFF
ADDRESS / ANGLE :OFF
LOCATION :1
[PREVIOUS PAGE]
    
```

OFF: Nothing is displayed.

ON: Every IDs are all displayed.

"1" or "2" : Changes the display position of each individual ID.

| Setting item | Setting content |
|-----------------|---|
| CAMERA ID | Displays the camera title. ^{*1} |
| PRESET ID | Displays the preset title (1 - 64). ^{*1} |
| AUTO PAN ID | Displays the auto-pan title. ^{*1} |
| TOUR ID | Displays the tour title (1 - 8). ^{*1} |
| TRACE ID | Displays the trace title (1 - 8). ^{*1} |
| SECTOR ID | Displays the sector title (1 - 8). ^{*1} |
| ADDRESS / ANGLE | Displays the coordinate. Displays the coordinates showing the pan (0° to 359°) and tilt (+2° to -90°) angles. |
| LOCATION | Display position can be selected from 2 patters. |

^{*1} Maximum character length is 16 characters.

Display location 1

```

CAMERA ID*****
PRESET*****
AUTOPAN*****

CAM ID:001
XXX.X XX.X
    
```

Display location 2

```

CAM ID:001
XXX.X XX.X

CAMERA ID*****
PRESET*****
AUTOPAN*****
    
```


4.12. Confirming System Settings

The current protocol, communication speed (baud rate), and camera information can be checked.

1. Tilt the joystick up or down to select "SYSTEM STATUS" on the dome setting screen, then tilt the joystick right.

System setting screen is displayed.

PROTOCOL : Indicates the RS-485 communication method.

BAUD RATE : Indicates the camera communication speed.

CAMERA : For maintenance.

```
      DOME SET
SYSTEM LOCK   :ON
[PASSWORD]
[OSD DISPLAY]
[SYSTEM STATUS]
[ CLEAR ]
[PREVIOUS PAGE]
```

```
      SYSTEM STATUS
PROTOCOL      :TYPE-A
BAUD RATE     :38400 BPS
CAMERA        :M-NTSC
              230a28H08
              26H08
[PREVIOUS PAGE]
```

4.13. Deleting the Settings

Used when returning the settings to their initial factory defaults.

1. Tilt the joystick up or down to select "CLEAR" on the dome setting screen, then tilt the joystick right.

Setting deletion screen is displayed.

```
      DOME SET
SYSTEM LOCK   :ON
[PASSWORD]
[OSD DISPLAY]
[SYSTEM STATUS]
[ CLEAR ]
[PREVIOUS PAGE]
```

2. Tilt the joystick up or down to select the item to be deleted on the setting deletion screen, then tilt the joystick right.

```
      CLEAR
[CAMERA SET CLEAR]
[TOUR CLEAR]
[PRESET CLEAR]
[SECTOR CLEAR]
[PRIVACY CLEAR]
[TRACE CLEAR]
[FACTORY PRESET]
[PREVIOUS PAGE]
```

3. As "ARE YOU SURE?" is displayed, select "YES," then press the Set key.

The deletion screen is displayed, then the screen display disappears when the deletion is completed.

Example: Deleting the Camera setting

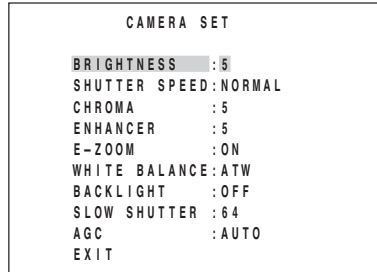
```
      CAMERA SET CLEAR
      ARE YOU SURE ? YES NO
```

5. CAMERA SETTINGS

5.1. Displaying the Camera Setting Screen

Tilt the joystick up or down to select "CAMERA SET" on the main menu screen, then tilt the joystick right. Camera setting screen is displayed.

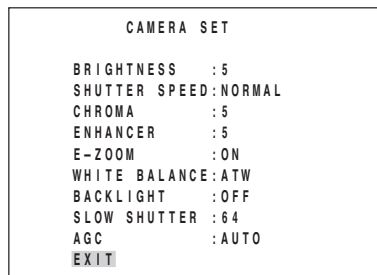
Camera setting



5.2. Exiting the Camera Setting Screen

Tilt the joystick up or down to select "EXIT" on the camera setting screen, then tilt the joystick right. The screen returns to the main menu screen.

Exit



5.3. Auto Focus

The auto focus operates in "STOP AF" mode.

STOP AF: Auto-focusing is automatically operated after the camera scene or angle of view has been changed. The "STOP AF" mode does not work when the Focus key is used. Pressing the Auto-focus key again returns the camera in the STOP AF mode.

Notes

Under the following conditions, a subject may go out of focus if the auto focus function is used:

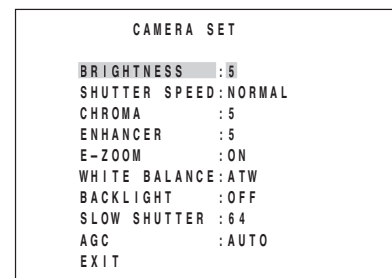
- When a part of the subject shines especially bright.
- When the distant and near subjects exist together.
- When the camera shoots a blind or other subject with horizontal stripes.
- When the subject's lighting conditions are poor.
- When the camera rotates at high speed.

5.4. Adjusting Brightness

The camera's brightness can be adjusted to suit user preferences.

1. Tilt the joystick up or down to select "BRIGHTNESS" on the camera setting screen.
2. Select from "1" through "9" by tiling the joystick left or right.
The Brightness setting is confirmed.

Note: The larger the number value, the brighter the image.



5.5. Setting Shutter Speed

Fixed shutter speed can be selected.

Select "NORMAL," "1/100," "1/120," "1/250," "1/500," "1/1000," "1/2000," "1/4000," or "1/10000."

Notes

- If shutter speed other than "NORMAL" is selected, the Slow Shutter function (Refer to p. 23) cannot be used.
- Avoid selecting shutter speed of 1/100 for the purposes of reducing flicker as the unit is performing automatic flicker reduction control*.

* Operation to reduce screen flickering that may occur when a subject is shot by a camera under fluorescent lighting in area where power frequency is 50 Hz.

Note: Usually use "NORMAL" setting.

1. Tilt the joystick up or down to select "SHUTTER SPEED" on the camera setting screen.
2. Select "NORMAL," "1/100," "1/120," "1/250," "1/500," "1/1000," "1/2000," "1/4000," or "1/10000" by tilting the joystick left or right.
The selected content is confirmed.

| CAMERA SET | |
|---------------|----------|
| BRIGHTNESS | : 5 |
| SHUTTER SPEED | : NORMAL |
| CHROMA | : 5 |
| ENHANCER | : 5 |
| E-ZOOM | : ON |
| WHITE BALANCE | : ATW |
| BACKLIGHT | : OFF |
| SLOW SHUTTER | : 64 |
| AGC | : AUTO |
| EXIT | |

5.6. Setting the Chroma

The chroma may be adjusted to suit user preferences.

1. Tilt the joystick up or down to select "CHROMA" on the camera setting screen.
2. Select from "1" through "9" by tilting the joystick left or right.
The chroma setting is confirmed.

Note: The larger the number value, the darker the color.

| CAMERA SET | |
|---------------|----------|
| BRIGHTNESS | : 5 |
| SHUTTER SPEED | : NORMAL |
| CHROMA | : 5 |
| ENHANCER | : 5 |
| E-ZOOM | : ON |
| WHITE BALANCE | : ATW |
| BACKLIGHT | : OFF |
| SLOW SHUTTER | : 64 |
| AGC | : AUTO |
| EXIT | |

5.7. Setting the Enhancer Function

This function emphasizes the contours of the image. The degree of emphasis can be adjusted to suit user requirements.

1. Tilt the joystick up or down to select "ENHANCER" on the camera setting screen.
2. Select from "1" through "9" by tiling the joystick left or right.
The enhancer setting is confirmed.

Note

As the number becomes larger, the contour enhancement increases.

| CAMERA SET | |
|---------------|----------|
| BRIGHTNESS | : 5 |
| SHUTTER SPEED | : NORMAL |
| CHROMA | : 5 |
| ENHANCER | : 5 |
| E-ZOOM | : ON |
| WHITE BALANCE | : ATW |
| BACKLIGHT | : OFF |
| SLOW SHUTTER | : 64 |
| AGC | : AUTO |
| EXIT | |

5.8. Setting Electronic Zoom

Use the Electronic zoom ² function to get a close-up picture more than is possible using the optical zoom ¹. It is possible to set the Electronic zoom function to turn "ON" or "OFF."

ON: Turns on the Electronic zoom function.

OFF: Turns off the Electronic zoom function.

¹ The zoom function through an optical lens.

² Zoom function which uses the scanning variation or image memory of the image pickup sensor instead of an optical lens to electronically magnify or reduce the image. Images will become coarser as the degree of Electronic zoom increases.

1. Tilt the joystick up or down to select "E-ZOOM" on the camera setting screen.
2. Select "ON" or "OFF" by Tilting the joystick left or right.
The Electronic zoom function is confirmed.

| CAMERA SET | |
|---------------|----------|
| BRIGHTNESS | : 5 |
| SHUTTER SPEED | : NORMAL |
| CHROMA | : 5 |
| ENHANCER | : 5 |
| E-ZOOM | : ON |
| WHITE BALANCE | : ATW |
| BACKLIGHT | : OFF |
| SLOW SHUTTER | : 64 |
| AGC | : AUTO |
| EXIT | |

5.9. Setting White Balance

Four modes are made available for white balance: "ATW," "AWB," "ATW-R," and "ATW-B."

ATW: The camera's white balance varies with the change in color temperature of the subject's light source.

AWB: The camera's white balance is fixed even if the color temperature of the subject's light source changes.

ATW-R: Fine-adjusts the color temperature at lower setting relative to ATW. (Red)

ATW-B: Fine-adjusts the color temperature at higher setting relative to ATW. (Blue)

Note: ATW will not function when the high sensitivity slow shutter function is in use.

1. Tilt the joystick up or down to select "WHITE BALANCE" on the camera setting screen.

2. Select "ATW," "AWB," "ATW-R," or "ATW-B" by tilting the joystick left or right.

White balance setting is confirmed.

```
CAMERA SET  
BRIGHTNESS : 5  
SHUTTER SPEED : NORMAL  
CHROMA : 5  
ENHANCER : 5  
E-ZOOM : ON  
WHITE BALANCE : ATW  
BACKLIGHT : OFF  
SLOW SHUTTER : 64  
AGC : AUTO  
EXIT
```

5.10. Setting Backlight Compensation

This function makes the subjects more clearly visible under strong backlight condition.

Select either "OFF" or "ON."

OFF: Turns off the backlight compensation function. Select OFF in normal use.

ON: Select ON in backlight condition.

1. Tilt the joystick up or down to select "BACKLIGHT" on the camera setting screen.

2. Select "OFF" or "ON" by tilting the joystick left or right.

```
CAMERA SET  
BRIGHTNESS : 5  
SHUTTER SPEED : NORMAL  
CHROMA : 5  
ENHANCER : 5  
E-ZOOM : ON  
WHITE BALANCE : ATW  
BACKLIGHT : OFF  
SLOW SHUTTER : 64  
AGC : AUTO  
EXIT
```

5.11. Setting High-Sensitivity Slow Shutter

Depending on the subject's brightness level, the camera is automatically put in slow shutter mode, the limit of which can be set by selecting from "OFF," "02," "04," "08," "16," "32," and "64." The slow shutter function cannot be used when "OFF" is selected.

1. Tilt the joystick up or down to select "SLOW SHUTTER" on the camera setting screen.
The selected content is confirmed.
2. Select "OFF," "02," "04," "08," "16," "32," or "64" by tilting the joystick left or right.
The selected content is confirmed.

| CAMERA SET | |
|---------------|----------|
| BRIGHTNESS | : 5 |
| SHUTTER SPEED | : NORMAL |
| CHROMA | : 5 |
| ENHANCER | : 5 |
| E-ZOOM | : ON |
| WHITE BALANCE | : ATW |
| BACKLIGHT | : OFF |
| SLOW SHUTTER | : 64 |
| AGC | : AUTO |
| EXIT | |

5.12. Setting AGC

The AGC function can be set for "AUTO," "OFF," or "MAX."

AUTO: Automatically adjusts the gain depending on the subject's brightness level.

OFF: Disables the automatic gain control function.

MAX: Used when the subject brightness is insufficient when in AUTO mode.

Note

Operation in "MAX" mode may cause excessive vertical noise, however this is not a failure. If it becomes annoying, select "AUTO" mode.

1. Tilt the joystick up or down to select "AGC" on the camera setting screen.
The selected content is confirmed.
2. Select "AUTO," "OFF," or "MAX" by tilting the joy stick left or right.
The AGC setting is confirmed.

| CAMERA SET | |
|---------------|----------|
| BRIGHTNESS | : 5 |
| SHUTTER SPEED | : NORMAL |
| CHROMA | : 5 |
| ENHANCER | : 5 |
| E-ZOOM | : ON |
| WHITE BALANCE | : ATW |
| BACKLIGHT | : OFF |
| SLOW SHUTTER | : 64 |
| AGC | : AUTO |
| EXIT | |

6. PRESET

Specific camera scenes, lens view angles, and lens focuses can be preset in advance. Up to 64 preset positions can be set.

6.1. Displaying the Preset Setting Screen

Tilt the joystick up or down to select "PRESET" on the main menu screen, then tilt the joystick right. The preset setting screen is displayed.

Preset

```
PRESET SET
PRESET NO. : 001
PRESET ID  : PRESET001■■■■■■■■
PAN:000   TILT:-26
SAVE
CLEAR
EXIT
```

6.2. Exiting the Preset Setting Screen

Tilt the joystick up or down to select "EXIT" on the preset setting screen, then tilt the joystick right. The screen returns to the main menu screen.

Exit

```
PRESET SET
PRESET NO. : 001
PRESET ID  : PRESET001■■■■■■■■
PAN:000   TILT:-26
SAVE
CLEAR
EXIT
```


6.3. Storing Preset

It is not possible to preset positions in the Electronic zoom areas (refer to p. 21). Presetting is possible only for areas not included in the Electronic zoom range .

1. Tilt the joystick up or down to select "PRESET NO." on the preset setting screen.
2. Select the desired preset No. from "001" through "064" by tilting the joystick left or right.
Pressing the Set key moves the cursor to the preset position.
3. Tilt the joystick up or down to select "PAN: *** TILT: ***," then press the Set key.
"■" appears on the left side of "PAN: *** TILT: ***", permitting manual operation.
4. Using the joystick (Pan and Zoom) and Focus keys, move the camera direction to the desired position, then press the Set key.
"■" on the left side of "PAN: *** TILT: ***" disappears.
5. Tilt the joystick up or down to select "SAVE," then tilt the joystick right.
The preset position of the selected preset No. is stored.
Preset No. automatically moves to the next preset No.

```
PRESET SET  
PRESET NO. :001  
PRESET ID :PRESET001■■■■■■■■  
PAN:000 TILT:-26  
SAVE  
CLEAR  
EXIT
```

```
PRESET SET  
PRESET NO. :001  
PRESET ID :PRESET001■■■■■■■■  
■PAN:000 TILT:-26  
SAVE  
CLEAR  
EXIT
```

6. 4. Setting Preset ID

1. Tilt the joystick up or down to select "PRESET ID" on the preset setting screen.
2. Enter the preset ID.

Selection: Tilt the joystick left or right to select the character.

Move: Rotating the joystick clockwise (TELE) moves the cursor one character to the right.
Rotating the joystick counterclockwise (WIDE) moves the cursor one character to the left.

Note

The black square symbol "■" in the screen shows a space.
"Character Table" on p. 46 shows usable characters for ID values.

```
PRESET SET
PRESET NO. : 001
PRESET ID  : PRESET001■■■■■■■
PAN:000    TILT:-26
SAVE
CLEAR
EXIT
```

6.5. Deleting Preset Position

1. Tilt the joystick up or down to select "PRESET NO." on the preset setting screen.
2. Select the desired preset number from "001" through "064" by tilting the joystick left or right.

Pressing the Set key moves the cursor to the preset position.

3. Tilt the joystick up or down to select "CLEAR," then tilt the joystick right.

Preset position of the selected Preset No. is deleted.
Preset No. automatically moves to the next preset No.

```
PRESET SET
PRESET NO. : 001
PRESET ID  : PRESET001■■■■■■■
PAN:000    TILT:-26
SAVE
CLEAR
EXIT
```

```
PRESET SET
PRESET NO. : 001
PRESET ID  : PRESET001■■■■■■■
PAN:000    TILT:-26
SAVE
CLEAR
EXIT
```

7. AUTO PAN

7.1. Displaying Auto-Pan Setting Screen

Tilt the joystick up or down to select "AUTO PAN" on the main menu screen, then tilt the joystick right. Auto-pan setting screen is displayed.

Auto-Pan

```
AUTO PAN SET
AUTO PAN ID:AUTOPAN■■■■■■■■■■
START ANGLE:000  -26
END ANGLE:070  -26
DIRECTION :LEFT
ENDRESS :OFF
SPEED :2
PAUSE TIME :03
SAVE AND EXIT
EXIT
```

7.2. Exiting the Auto-Pan Setting Screen

Save changes and exit:

Tilt the joystick up or down to select "SAVE AND EXIT" on the auto-pan setting screen, then tilt the joystick right. This saves the setting and the display returns to the main menu screen.

Exit and lose changes:

Tilt the joystick up or down to select "EXIT" on the auto-pan setting screen, then tilt the joystick right. This cancels changes and the display returns to the main menu screen.

Save changes and exit

```
AUTO PAN SET
AUTO PAN ID:AUTOPAN■■■■■■■■■■
START ANGLE:000  -26
END ANGLE:070  -26
DIRECTION :LEFT
ENDRESS :OFF
SPEED :2
PAUSE TIME :03
SAVE AND EXIT
EXIT
```

Exit

```
AUTO PAN SET
AUTO PAN ID:AUTOPAN■■■■■■■■■■
START ANGLE:000  -26
END ANGLE:070  -26
DIRECTION :LEFT
ENDRESS :OFF
SPEED :2
PAUSE TIME :03
SAVE AND EXIT
EXIT
```

7.3. Setting Auto-Pan ID

1. Tilt the joystick up or down to select "AUTO PAN ID" on the auto-pan setting screen.
2. Enter the Auto-Pan ID.

Selection: Tilt the joystick left or right to select the character.

Move: Rotating the joystick clockwise (TELE) moves the cursor one character to the right.
Rotating the joystick counterclockwise (WIDE) moves the cursor one character to the left.

Note

The black square symbol "■" in the screen shows a space.
"Character Table" on p. 46 shows usable characters for ID values.

```
AUTO PAN SET
AUTO PAN ID: AUTOPAN■■■■■■■■■■
START ANGLE: 000 -26
END ANGLE: 070 -26
DIRECTION : LEFT
ENDRESS : OFF
SPEED : 2
PAUSE TIME : 03
SAVE AND EXIT
EXIT
```

7.4. Setting Auto-Pan Limit

Set the start and end positions at Auto-Pan operation.

1. Tilt the joystick up or down to select "START ANGLE" or "END ANGLE" on the auto-pan setting screen.
2. Select "START ANGLE" or "END ANGLE," then press the Set key.
"■" appears on the left side of the item," permitting manual operation.
3. Using the joystick (Pan and Zoom) and Focus keys, move the camera direction to the desired position, then press the Set key.
"■" disappears, and the pan and tilt positions are set.

Notes

- Panning will not function if both the left and right limits are set to the same position.
- It is not possible to preset positions in the Electronic zoom areas.

```
AUTO PAN SET
AUTO PAN ID: AUTOPAN■■■■■■■■■■
■START ANGLE: 000 -26
■END ANGLE: 070 -26
DIRECTION : LEFT
ENDRESS : OFF
SPEED : 2
PAUSE TIME : 03
SAVE AND EXIT
EXIT
```

7.5. Setting the Direction of Auto-Pan Rotation

1. Tilt the joystick up or down to select "DIRECTION" on the auto-pan setting screen.
2. Select "LEFT" or "RIGHT" by tilting the joystick left or right.
Auto-Pan rotation direction is confirmed.

```
AUTO PAN SET
AUTO PAN ID: AUTOPAN■■■■■■■■■■
START ANGLE: 000 -26
END ANGLE: 070 -26
DIRECTION : LEFT
ENDRESS : OFF
SPEED : 2
PAUSE TIME : 03
SAVE AND EXIT
EXIT
```

7.6. Setting Endless

Set this function to use the Auto-Pan function in endless mode.

Selecting "ON" enables the camera to pan to the set rotation direction and at the set tilt angle in endless mode. In this case, the Pan limit function does not work.

1. Tilt the joystick up or down to select "ENDLESS" on the auto-pan setting screen.
2. Select "OFF" or "ON" by tilting the joystick left or right.

```
AUTO PAN SET
AUTO PAN ID:AUTOPAN■■■■■■■■■■
START ANGLE:000  -26
END ANGLE:070  -26
DIRECTION :LEFT
ENDRESS  :OFF
SPEED   :2
PAUSE TIME :03
SAVE AND EXIT
EXIT
```

7.7. Setting Speed

Select the Auto-Pan speed.

1. Tilt the joystick up or down to select "SPEED" on the auto-pan setting screen.
2. Select from "1" through "7" by tilting the joystick left or right.

Note: As the number becomes larger, the Auto-Pan speed increases.

```
AUTO PAN SET
AUTO PAN ID:AUTOPAN■■■■■■■■■■
START ANGLE:000  -26
END ANGLE:070  -26
DIRECTION :LEFT
ENDRESS  :OFF
SPEED   :2
PAUSE TIME :03
SAVE AND EXIT
EXIT
```

7.8. Setting the Pause Time at the Auto-Pan Endpoint

Pause time can be selected from 1 through 99 seconds (1-second intervals).

1. Tilt the joystick up or down to select "PAUSE TIME" on the auto-pan setting screen.
2. Select from "01" through "99" by tilting the joystick left or right.

```
AUTO PAN SET
AUTO PAN ID:AUTOPAN■■■■■■■■■■
START ANGLE:000  -26
END ANGLE:070  -26
DIRECTION :LEFT
ENDRESS  :OFF
SPEED   :2
PAUSE TIME :03
SAVE AND EXIT
EXIT
```

8. TOUR

8.1. Displaying the Tour Setting Screen

Tilt the joystick up or down to select "TOUR" on the main menu screen, then tilt the joystick right. Tour setting screen is displayed.

Tour

```
TOUR SET
TOUR NO. : 01
TOUR ID  : TOUR01■■■■■■■■■■
TOUR STEP : 01
PRESET NO. : BLK
PAUSE TIME : 03
SPEED     : 200° / S
SAVE
EXIT
```

8.2. Exiting the Tour

Tilt the joystick up or down to select "EXIT" on the tour setting screen, then tilt the joystick right. The display returns to the main menu screen.

Exit

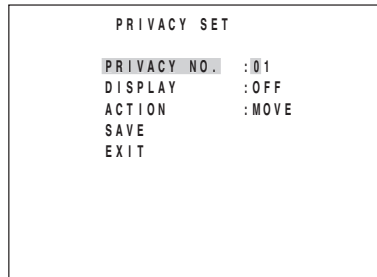
```
TOUR SET
TOUR NO. : 01
TOUR ID  : TOUR01■■■■■■■■■■
TOUR STEP : 01
PRESET NO. : BLK
PAUSE TIME : 03
SPEED     : 200° / S
SAVE
EXIT
```


9. PRIVACY MASK

9.1. Displaying the Privacy Masking Setting Screen

Tilt the joystick up or down to select "PRIVACY MASK" on the main menu screen, then tilt the joystick right. Privacy masking setting screen is displayed.

Privacy mask



9.2. Exiting the Privacy Masking Screen

Tilt the joystick up or down to select "EXIT" on the privacy masking setting screen, then tilt the joystick right. The display returns to the main menu screen.

Exit



9.3. Setting the Privacy Masking

When there are locations that are required to be kept out of view in a camera scene, up to 8 of such locations can be masked out of view.

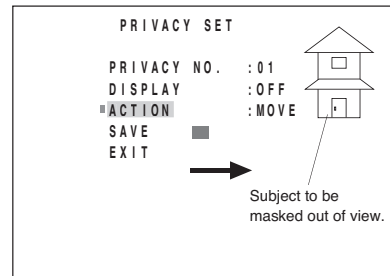
Note

Only 2 areas can be masked on the same screen. Depending on the masked area and its size, the number of masking areas that can be set decreases.

1. Tilt the joystick up or down to select "PRIVACY NO." on the privacy masking setting screen.
2. Select the desired Privacy No. to be set from "01" through "08" by tilting the joystick left or right.
3. Tilt the joystick up or down to select "DISPLAY," then select "ON" by tilting the joystick left or right. The masking area can be set in the center of the screen.

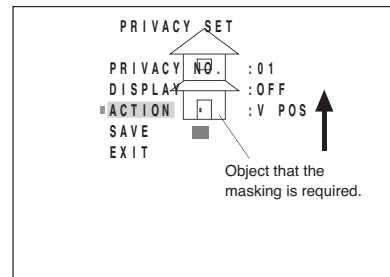


4. Select "ACTION" by tilting the joystick up or down.
5. Select "MOVE" by tilting the joystick left or right, then press the Set key.
"■" appears on the left side of "ACTION."



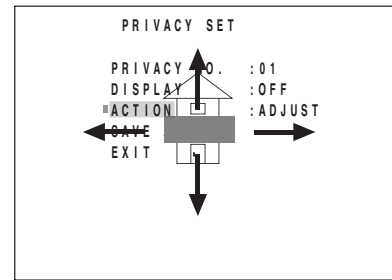
6. Determine the center position of the angle of view using the joystick, then press the Set key.
"■" on the left side of "ACTION" disappears.

7. Select "V POS" by tilting the joystick left or right, then press the Set key.
"■" appears on the left side of "ACTION."



8. Move the masking position in the vertical direction by tilting the joystick up or down, then press the Set key.
"■" on the left side of "ACTION" disappears.

9. Select "ADJUST" by tilting the joystick left or right, then press the Set key.
"■" appears on the left side of "ACTION."
10. Determine the masking size using the joystick, then press the Set key.
"■" on the left side of "ACTION" disappears.
Tilting the joystick left or right changes the masking size in a horizontal direction.
Tilting the joystick up or down changes the masking size in a vertical direction.
11. Tilt the joystick up or down to select "SAVE," then tilt the joystick right.
Privacy masking setting is saved. Privacy No. automatically moves to the next privacy No.

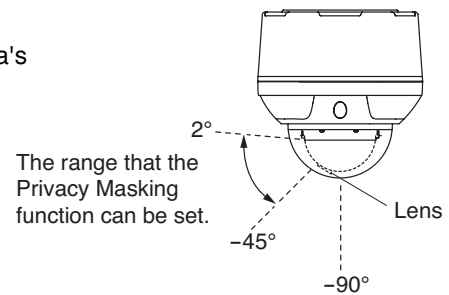


Note

The masking movement may not follow the camera's quick rotation, allowing the masked portion to be viewed momentarily. Therefore, set the masking size larger than needed whenever possible.

Note

The Privacy Masking function cannot be set when the camera's vertical direction is pointing between -45° and -90° .

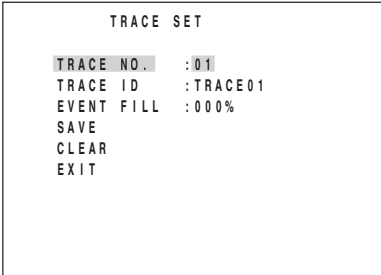


10. TRACE

10.1. Displaying the Trace Setting Screen

Tilt the joystick up or down to select "TRACE" on the main menu screen, then tilt the joystick right. Trace setting screen is displayed.

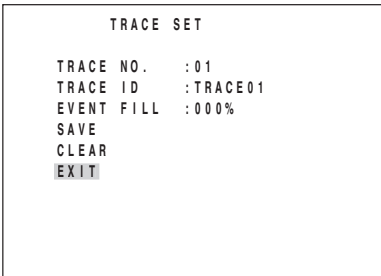
Trace



10.2. Exiting the Trace Setting Screen

Tilt the joystick up or down to select "EXIT" on the trace setting screen, then tilt the joystick right. The display returns to the main menu screen.

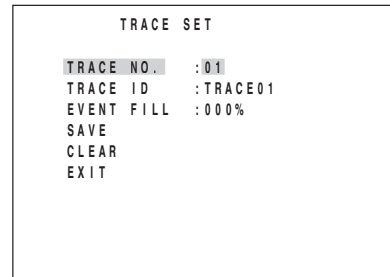
Exit



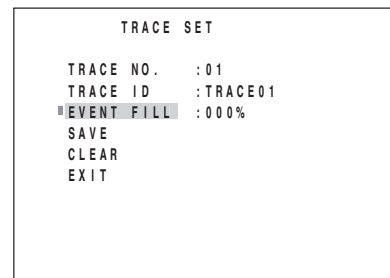
10.3. Setting the Trace

The trace operation can be stored.

1. Tilt the joystick up or down to select "TRACE NO." on the trace setting screen.
2. Select the trace No. to be stored from "01" through "08" by tilting the joystick left or right.
3. Tilt the joystick up or down to select "EVENT FILL," then press the Set key.
"■" appears on the left side of "EVENT FILL," starting storage.



4. Set the trace using the joystick (Rotate and Zoom).
A series of operation is stored.
5. After trace setting completion, press the Set key.
"■" on the left side of "EVENT FILL" disappears, exiting the event setting.
6. Tilt the joystick up or down to select "SAVE," then tilt the joystick right.
Trace setting is saved.
Trace No. automatically moves to the next Trace No.



Notes

- A maximum of about 2 minutes for the event or 99% of the event displays can be stored within one trace. If 2 minutes have already passed before pressing the Set key, no subsequent operations can be stored.
- Operations using any key other than joystick (Pan and Zoom) cannot be stored.
- The stored content may slightly differ from the actual reproduction view on the monitor. To avoid this, select a wider angle of view than you wish, and slowly operate camera movements during the trace operation memory.
- It is not possible to perform trace setting in the Electronic zoom areas.

10.4. Setting the Trace ID

1. Tilt the joystick up or down to select "TRACE ID" on the trace setting screen.
2. Enter the trace ID.

Selection: Tilt the joystick left or right to select the character.

Move: Rotating the joystick clockwise (TELE) moves the cursor one character to the right.
Rotating the joystick counterclockwise (WIDE) moves the cursor one character to the left.

Note

The black square symbol "■" in the screen shows a space.
"Character Table" on p. 46 shows usable characters for ID values.

3. Tilt the joystick up or down to select "SAVE," then tilt the joystick right.
Trace ID is saved.

```
TRACE SET
TRACE NO. : 01
TRACE ID  : TRACE01
EVENT FILL : 000%
SAVE
CLEAR
EXIT
```

10.5. Deleting the Trace Setting

1. Tilt the joystick up or down to select "TRACE NO." on the trace setting screen.
2. Select the trace number to be deleted from "01" through "08" by tilting the joystick left or right.
3. Tilt the joystick up or down to select "CLEAR," then tilt the joystick right.
Trace setting is deleted.
Trace No. automatically moves to the next trace No.

```
TRACE SET
TRACE NO. : 01
TRACE ID  : TRACE01
EVENT FILL : 000%
SAVE
CLEAR
EXIT
```

```
TRACE SET
TRACE NO. : 01
TRACE ID  : TRACE01
EVENT FILL : 000%
SAVE
CLEAR
EXIT
```

11. ALARM

The camera has alarm contact inputs.

When an alarm signal is applied to each contact input, the alarm is activated and its alarm No. is displayed on the screen, performing operation according to the following settings. When multiple alarms occur simultaneously, the most recent alarm takes precedence.

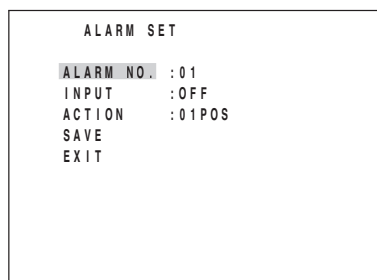
Notes

- Avoid using the C-RM700's alarm hold when using the C-RM700's camera alarm function via the unit's alarm contact input.
- It is not possible to use C-RM700's camera alarm preset function.

11.1. Displaying the Alarm Setting Screen

Tilt the joystick up or down to select "ALARM" on the main menu screen, then tilt the joystick right. Alarm setting screen is displayed.

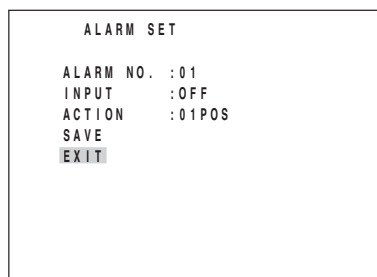
Alarm



11.2. Exiting the Alarm Setting Screen

Tilt the joystick up or down to select "EXIT" on the alarm setting screen, then tilt the joystick right. The display returns to the main menu screen.

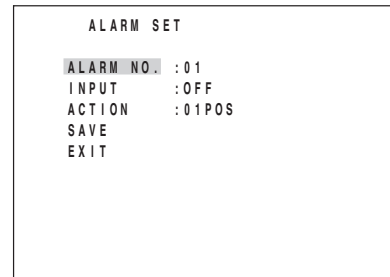
Exit



11.3. Setting Alarm

Designate the input No. which actually receives alarm signal out of all the alarm input terminals. Unless the alarm input settings are performed, alarm is not activated even if the alarm signal is received.

1. Tilt the joystick up or down to select "ALARM NO." on the alarm setting screen.
2. Select the Alarm No. to be set from "01" through "04" by tilting the joystick left or right.
3. Select "INPUT" by tilting the joystick up or down.
4. Select the alarm receiving way from "OFF," "CLOSE," or "OPEN" by tilting the joystick left or right.
To disable alarm reception, select "OFF."
5. Tilt the joystick up or down to select "ACTION."
6. Select the Action from "01 POS" through "64 POS," "TOUR1" through "TOUR8," or "TRACE1" through "TRACE8" by tilting the joystick left or right.
7. Tilt the joystick up or down to select "SAVE," then tilt the joystick right.
Alarm setting is saved.
Alarm No. automatically moves to the next Alarm No.

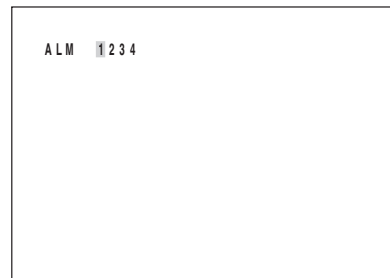


Notes

- Tour and Trace terminate after one-time operation.
- Alarm ID shown at right is displayed when an alarm occurs, and disappears after Action completion.

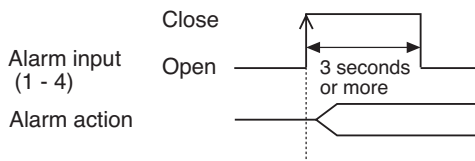
Preset: ALM__1234
 Tour: ALMTO1234
 Trace: ALMTR1234

(Example) In case of preset



Note

Alarm Action is activated when the alarm input is closed or open.



12. SECTOR

Any range can be displayed on the ID display screen.

12.1. Displaying the Sector Setting Screen

Tilt the joystick up or down to select "SECTOR" on the main menu screen, then tilt the joystick right. Sector setting screen is displayed.

Sector

```
SECTOR SET
SECTOR NO. : 01
SECTOR ID  : SECTOR01■■■■■■■■■■
SECTOR START: 000 -00
SECTOR END  : 000 -00
SAVE
CLEAR
EXIT
```

12.2. Exiting the Sector Setting Screen

Tilt the joystick up or down to select "EXIT" on the sector setting screen, then tilt the joystick right. The display returns to the main menu screen.

Exit

```
SECTOR SET
SECTOR NO. : 01
SECTOR ID  : SECTOR01■■■■■■■■■■
SECTOR START: 000 -00
SECTOR END  : 000 -00
SAVE
CLEAR
EXIT
```

12.3. Setting the Sector

1. Tilt the joystick up or down to select "SECTOR NO." on the sector setting screen.

2. Select the desired Sector No. from "01" through "08" by tilting the joystick left or right.

3. Select "SECTOR START" by tilting the joystick up or down, then press the Set key.

"■" appears on the left side of "SECTOR START."

4. Set the sector start position using the joystick.

5. Press the Set key.

"■" on the left side of "SECTOR START" disappears.

6. Select "SECTOR END" by tilting the joystick up or down, then press the Set key.

"■" appears on the left side of "SECTOR END."

7. Set the sector end position using the joystick.

8. Press the Set key.

"■" on the left side of "SECTOR END" disappears.

9. Tilt the joystick up or down to select "SAVE," then tilt the joystick right.

Sector setting is saved.

Sector No. automatically moves to the next Sector No.

```
SECTOR SET
SECTOR NO. : 01
SECTOR ID  : SECTOR01■■■■■■■■■■
SECTOR START: 000 -00
SECTOR END  : 000 -00
SAVE
CLEAR
EXIT
```

```
SECTOR SET
SECTOR NO. : 01
SECTOR ID  : SECTOR01■■■■■■■■■■
■SECTOR START: 000 -00
SECTOR END  : 000 -00
SAVE
CLEAR
EXIT
```

12.4. Setting the Sector ID

1. Tilt the joystick up or down to select "SECTOR ID" on the sector setting screen.

2. Enter the Sector ID.

Selection: Tilt the joystick left or right to select the character.

Move: Rotating the joystick clockwise (TELE) moves the cursor one character to the right.

Rotating the joystick counterclockwise (WIDE) moves the cursor one character to the left.

Note

The black square symbol "■" in the screen shows a space.

"Character Table" on p. 46 shows usable characters for ID values.

3. Tilt the joystick up or down to select "SAVE," then tilt the joystick right.

Sector ID is saved.

```
SECTOR SET
SECTOR NO. : 01
SECTOR ID  : SECTOR01■■■■■■■■
SECTOR START: 000 -00
SECTOR END  : 000 -00
SAVE
CLEAR
EXIT
```

12.5. Deleting the Sector Setting

1. Tilt the joystick up or down to select "SECTOR NO." on the sector setting screen.

2. Select the Sector No. to be deleted from "01" through "08" by tilting the joystick left or right.

3. Tilt the joystick up or down to select "CLEAR," then tilt the joystick right.

Sector setting is deleted.

Sector No. automatically moves to the next Sector No.

```
SECTOR SET
SECTOR NO. : 01
SECTOR ID  : SECTOR01■■■■■■■■
SECTOR START: 000 -00
SECTOR END  : 000 -00
SAVE
CLEAR
EXIT
```

```
SECTOR SET
SECTOR NO. : 01
SECTOR ID  : SECTOR01■■■■■■■■
SECTOR START: 000 -00
SECTOR END  : 000 -00
SAVE
CLEAR
EXIT
```

13. FACTORY DEFAULT SETTINGS LIST

| Setting Item | Function | Factory Default Setting |
|----------------|-----------------|---|
| Dome Setting | Camera ID | CAM01 ■■■■■■■■■■■■ (Up to 16 characters, ■ : Space) |
| | Auto Return | OFF |
| | Home | 1 POS |
| | Max P/T Speed | 100°/s |
| | Refresh | OFF |
| | Initialize | OFF |
| | Language | ENGLISH |
| | [Password] | OFF |
| | [OSD display] | 111 |
| | [ID Setting] | |
| | Camera ID | OFF |
| | Preset ID | OFF |
| | Auto Pan ID | OFF |
| | Tour ID | OFF |
| | Trace ID | OFF |
| | Sector ID | OFF |
| | Display | OFF |
| Action | 1 | |
| Camera Setting | Brightness | 5 |
| | Shutter Speed | NORMAL |
| | Chroma | 5 |
| | Enhancer | 5 |
| | E-Zoom | ON |
| | White Balance | ATW |
| | Backlight | OFF |
| | Slow Shutter | 64 |
| | AGC | AUTO |
| Preset | Preset No. | 001 |
| | Preset ID | PRESET001 ■■■■■■■■ (Up to 16 characters, ■ : Space) |
| | Pan | 000 to 359 |
| | Tilt | +02 to -90 |
| Auto-Pan | Auto Pan ID | AUTOPAN ■■■■■■■■■■ (Up to 16 characters, ■ : Space) |
| | Start Angle | 000, -26 |
| | End Angle | 070, -26 |
| | Direction | LEFT |
| | Endless | OFF |
| | Speed | 2 |
| | Pause Time | 03 |

| Setting Item | Function | Factory Default Setting |
|--------------|--------------|--|
| Tour | Tour No. | 01 |
| | Tour ID | TOUR01■■■■■■■■■■■■■■■■ (Up to 16 characters, ■: Space) |
| | Tour Step | 01 |
| | Preset No. | * * * |
| | Pause Time | 03 |
| | Speed | 200°/s |
| Privacy Mask | Privacy No. | 01 |
| | Display | OFF |
| | Action | MOVE |
| Trace | Trace No. | 01 |
| | Trace ID | TRACE01■■■■■■■■■■■■■■■■ (Up to 16 characters, ■: Space) |
| | Event Fill | 000 % |
| Alarm | Alarm No. | 01 |
| | Input | OFF |
| | Action | 01 POS |
| Sector | Sector No. | 01 |
| | Sector ID | SECTOR01■■■■■■■■■■■■■■■■ (Up to 16 characters, ■: Space) |
| | Sector Start | 000 to 359, +02 to -90 |
| | Sector End | 000 to 359, +02 to -90 |

14. CHARACTER TABLE

Usable characters are displayed in the following order.

Note: The shaded rectangle "■" in the table shows a space.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| あ | い | う | え | お | や | ゆ | よ | っ | あ | い | う | え | お | か |
| き | く | け | こ | さ | し | す | せ | そ | た | ち | つ | て | と | な |
| に | ぬ | ね | の | は | ひ | ふ | へ | ほ | ま | み | む | め | も | や |
| ゆ | よ | ら | り | る | れ | ろ | わ | を | ん | が | ぎ | ぐ | げ | ご |
| ざ | じ | ず | ぜ | ぞ | だ | ぢ | づ | で | ど | ば | び | ぶ | べ | ぼ |
| ぱ | ぴ | ぷ | ぺ | ぽ | ア | イ | ウ | エ | オ | ヤ | ユ | ヨ | ツ | ア |
| イ | ウ | エ | オ | カ | キ | ク | ケ | コ | サ | シ | ス | セ | ソ | タ |
| チ | ツ | テ | ト | ナ | ニ | ヌ | ネ | ノ | ハ | ヒ | フ | ヘ | ホ | マ |
| ミ | ム | メ | モ | ヤ | ユ | ヨ | ラ | リ | ル | レ | ロ | ワ | ヲ | ン |
| ガ | ギ | グ | ゲ | ゴ | ザ | ジ | ズ | ゼ | ゾ | ダ | ヂ | ヅ | デ | ド |
| バ | ビ | ブ | ベ | ボ | パ | ピ | プ | ペ | ポ | ■ | , | - | . | / |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | = | > |
| ? | @ | A | B | C | D | E | F | G | H | I | J | K | L | M |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z | [| \ |
|] | ^ | _ | ` | a | b | c | d | e | f | g | h | i | j | k |
| l | m | n | o | p | q | r | s | t | u | v | w | x | y | z |
| { | ! | } | ~ | △ | Ç | ü | é | â | ä | à | å | ç | ê | ë |
| è | ï | î | ì | Ä | Å | É | æ | Æ | ô | ö | ò | û | ù | ÿ |
| Ö | Ü | Ç | £ | ¥ | ₪ | f | á | í | ó | ú | ñ | Ñ | ª | º |

