

INSTRUCTION MANUAL

VCC-MC600P VCC-MC500P

Color CCD Camera

About this manual

Before installing and using this unit, please read this manual carefully. Be sure to keep it handy for later reference.



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Main Features

X30 optical zoom

High speed 360 degrees rotation mechanism

-5 to 185 degrees tilting angle

Easy installation and removal

Providing clearer monitored images

- Detailed surveillance options including auto focus, auto iris, white balance, backlight/profile compensation, electronic shutter and AGC
- DAY/NIGHT function enabling 24-hour surveillance
- Up to 128 preset positions and 4 preset position groups are supported
- Up to 8 camera view setting files can be saved for storing camera setting patterns

Three types of auto mode settings

① SEQUENCE mode

In this mode, surveillance locations can automatically be moved to multiple preset positions sequentially.

2 AUTO PAN mode

Automatic pan between two surveillance locations in loop can be set after storing start and end locations.

③ TOUR mode

Sequential manual operations such as panning, tilting and zooming can be saved as a movement track, and the movement track can be used to automatically repeat the set of camera operations.

Alarm detection function

- Both built-in and externally connected motion sensors can be used simultaneously.
- Detailed input/output options for alarm signals are available for linking external devices such as recorder and alarm buzzer.

Protecting privacy and ensuring security

- Masking patterns can be placed over defined image areas to protect privacy.
- · Password authorization can be set for camera operation.

Additional convenient functions

- Automatic image flipping (AUTO FLIP) function allows you to view the surveillance image in an upright position when the camera is tilted beyond the straight down position and the on-screen image is inverted.
- The automatic cleaning function keeps horizontal rotation of the camera in smooth working order.
- The MIRRORING function enables surveillance from the camera set up on the floor.

Supported protocols: SSP, HSSP, Pelco-D, Pelco-C

Memo: To operate the camera, the separately sold Power Board Unit <VA-84S (for AC24V) or VA-80S (for AC230V)> is required. The power board unit can be removed easily from the camera unit by using the releasing levers.

Expendable items

The following parts are expendable items. Be sure to replace them after their work life has expired. Component performance cannot be guaranteed when parts are used to the very end of their projected work life. Durability will differ according to environmental conditions and usage.

- Lens unit: about 20,000 hours (Motor: 1,200,000 operations)
- Slip ring: about 20,000 hours (1,200,000 rotations)
- Motor: about 33,000 hours (12,000,000 revolutions)
- Fan: about 30,000 hours

Accessories

Clamping core (large) x 2 (square type)



• Clamping core (small) x 1 (round type)



For installing the core, refer to the supplied installation manual.

In case of a problem

Do not use the unit if smoke or a strange odor comes from the unit, or if it seems not to function correctly. Turn off the power immediately and disconnect the power cord, and then consult your dealer or an Authorized Sanyo Service Center.

Do not open or modify

Do not open the cabinet, as it may be dangerous and cause damage to the unit. For repairs, consult your dealer or an Authorized Sanyo Service Center.

Do not put objects inside the unit

Make sure that no metal objects or flammable substance get inside the unit. If used with a foreign object inside, it could cause a fire, a short-circuit or damage. Be careful to protect the unit from rain, sea water, etc. If water or liquid gets inside the unit, turn off the power immediately and disconnect the power cord, and then consult your dealer or an Authorized Sanyo Service Center.

Be careful when handling the unit

To prevent damage, do not drop the unit or subject it to strong shock or vibration.

Do not install this unit close to magnetic fields

The magnetic fields may result in unstable operation.

Protect from humidity and dust

To prevent damage, do not install the unit where there is greasy smoke or steam, where the humidity may get too high, or where there is a lot of dust.

Protect from high temperatures

Do not install close to stoves, or other heat sources, such as spotlights, etc., or where it could be subject to direct sunlight, as this could cause deformation, discoloration or other damage.

Be careful when installing close to the ceiling, in a kitchen or boiler room, as the temperature may rise to high levels.

Cleaning

- Dirt can be removed from the cabinet by wiping it with a soft cloth. To remove stains, wipe with a soft cloth moistened with a soft detergent solution and wrung dry, then dry by wiping with a soft cloth.
- Do not use benzine, thinner or other chemical products on the cabinet, as this may cause deformation and paint peeling. Before using a chemical cloth, make sure to read all accompanying instructions. Make sure that no plastic or rubber material comes into contact with the cabinet for a long period of time, as this may cause damage or paint peeling.

Installing the camera

To avoid injury, be sure to follow the installation manual to install the camera on the ceiling (floor) or wall securely.

WEEE Symbol Information



Please note:

Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic products.

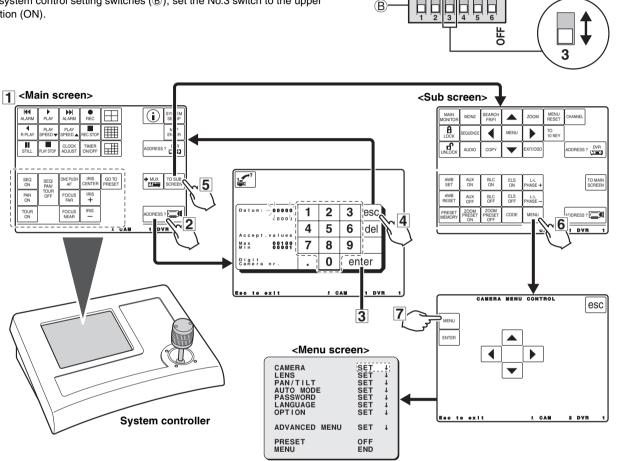
Please help us to conserve the environment we live in!

This symbol mark and recycle system are applied only to EU countries and not applied to the countries in the other area of the world.

Before Using the Menu

After installing the camera, use the menu to select camera operating options and required functions according to your operating environment and surveillance purpose. Use the system controller (VSP-9000) to perform menu setting operations while viewing the menu on the monitor screen. (The VAC-70 also can be used to operate the camera.)

- To operate the system controller using the RS485 control method: For system control setting switches (B), set the No.3 switch to the lower position (OFF).
- To operate the system controller using the coaxial control method: For system control setting switches ((B)), set the No.3 switch to the upper position (ON).



Monitor screen



2

Make connections with all equipment and turn them on.

When the power is turned on, the camera will perform its startup movements. The camera's address and other information will be displayed on the monitor screen. After the startup movements have been completed, live image will be displayed.

The main screen appears on the touch panel of the system controller.

Press the [ADDRESS? _____] button.

The address entering screen appears.

3 Enter the camera's address using the 10 key buttons, and press the [enter] button.

The address (camera number) entered here is the one specified with the address setting switches (A) and is displayed on the monitor screen during the startup movements.

4 Press the [esc] button.

The main screen appears again.

5 Press the [TO SUB SCREEN] button. The sub screen appears.



7

Press the [MENU] button in the sub screen.

S

E

S

When setting the address of the

camera, use numbers higher

than or equal to 1.

The CAMERA MENU CONTROL screen appears.

Press the [MENU] button in the CAMERA MENU CONTROL screen.

The camera menu appears on the monitor screen.

Basic Operations for Performing Settings in the Menu

To perform settings in the menu, use the joystick lever () on the system controller and the [ENTER] button () in the CAMERA MENU CONTROL screen.

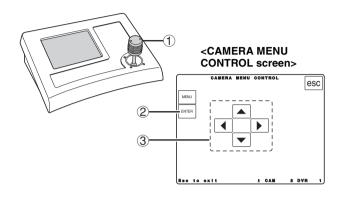
• Joystick lever:

Used to move the cursor or select menu options.

Instead of the joystick lever, the control buttons shown in (3) in the CAMERA MENU CONTROL screen can be used to move the cursor or select menu options.

• [ENTER] button:

- Used to confirm your selection or execute operation commands.
- **Memo:** Some settings in the menu can be performed by using the sub screen on the system controller. For details, refer to the system controller instruction manual.



• To select the menu to perform settings

Use the joystick lever $(\uparrow\downarrow)$ to move the cursor highlighting the menu item up or down. Move the cursor to your desired menu item using the lever.

	CAMERA LENS PAN/TILT AUTO MODE ALARM PRIVACY MASK PASSWORD LANGUAGE OPTION	SET ↓ SET ↓ SET ↓ SET ↓ SET ↓ SET ↓ SET ↓ SET ↓	- Cursor
ł	PRESET MENU	OFF BACK	

To display an advanced setting screen for the selected menu

The menu item shown with \downarrow mark has an advanced setting screen. After selecting the menu item with \downarrow mark, press the [ENTER] button to display the advanced setting screen.

CAMERA LENS PAN/TILT AUTO MODE ALARM PRIVACY MASK PASSWORD	SET SET SET SET SET SET SET	↓ ↓ ↓ ↓	SYNC IRIS WHITE BALANCE BLC SHUTTER APERTURE AGC	AUTO ATW OFF OFF ON ON	 → → → → →
--	---	------------------	--	---------------------------------------	---------------

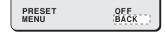
• To select an option for the setting item

Use the joystick lever $(\leftarrow \rightarrow)$ to display the available options in turn.



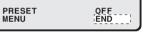
To go back to a previous setting screen

Move the cursor to "MENU" and select the "BACK" option, then press the [ENTER] button.



• To exit from the menu screen

Move the cursor to "MENU" and select the "END" option, then press the [ENTER] button.



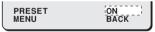
Memo: If there is no menu operation for three minutes or more, the menu screen is automatically exited.

• To display the menu screen again

Press the [MENU] button in the CAMERA MENU CONTROL screen.

To restore your selected options to initial values

Move the cursor to "PRESET" and change its option to "ON", then press the [ENTER] button.



Memo: The following settings cannot be restored.

- Privacy mask
- Preset position
- Camera view
- Camera title
- Password
- In this manual, ↑↓ represent vertical joystick lever operation and ←→ represent horizontal joystick lever operation.

About Setting Menus

Setting menu mode

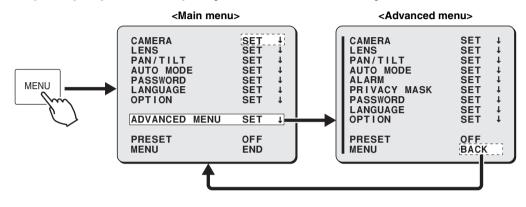
For performing settings in the menu, the following two menu modes are available.

Main menu

This menu, which is provided for general users, appears by pressing the [MENU] button in the CAMERA MENU CONTROL screen. Some menu items and setting options, which are available in the advanced menu, are omitted in the main menu.

Advanced menu

This menu, which is provided for administrative users, appears by selecting [ADVANCED MENU] in the main menu. In the advanced menu, the menu items for the [ALARM] and [PRIVACY MASK] settings are added and advanced settings can be made on individual menu screens.



Memo: • In the advanced menu, the vertical line is displayed on the left end of the screen.

• The settings common to the main menu and advanced menu modes are shared regardless of the menu mode in which the settings are made. However, different passwords can be specified for the main menu and advanced menu respectively.

IN The description in this manual assumes the advanced menu.

Entering password

When the password lock is enabled, you have to enter your password before displaying the main menu by pressing the [MENU] button. To enter your password, perform the following procedures.



Use the joystick lever $(\leftarrow \rightarrow)$ to select the digit and use the lever $(\uparrow \downarrow)$ to select a number.

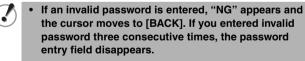
The PASSWORD screen appears.

	PASSWORD)	
	<u>[</u> #]* * *	SET	Ť
MENU		BACK	



After entering your four-digit password, press [ENTER].

If the password is authenticated, the menu screen appears.

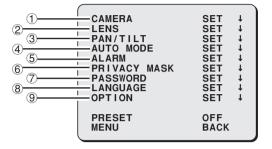


• The factory setting value for password is "1234". To keep the camera system secured, change your password regularly.

Setting menu composition

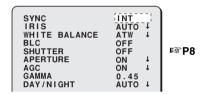
The setting menu (ADVANCED MENU) contains the following settings.

The menu item shown with \downarrow mark has an advanced setting screen.



① Camera settings (CAMERA)

Performs camera shooting settings including synchronization, lens aperture, white balance, backlight compensation and electronic shutter.



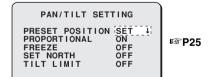
2 Lens settings (LENS)

Performs settings for focus and zoom operations.



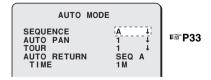
③ Pan and tilt settings (PAN/TILT)

Performs panning and tilting settings including preset position setting.



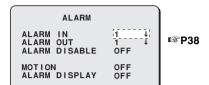
④ Auto mode settings (AUTO MODE)

Performs settings for three auto surveillance modes.



5 Alarm settings (ALARM)

Performs settings including alarm input/output (external input x 8, external output x 2) and motion sensor settings.



6 Privacy mask settings (PRIVACY MASK)

Specifies up to 24 privacy masks to protect privacy.



⑦ Password settings (PASSWORD)

Performs settings for enabling/disabling password lock and changing password.



8 Language settings (LANGUAGE)

Performs display language settings for menus.



9 Miscellaneous settings (OPTION)

Performs miscellaneous settings including on-screen information and the Auto Flip function.

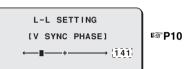
Camera Settings (CAMERA)

CAMERA LENS PAN/TILT AUTO MODE ALARM PRIVACY MASK PASSWORD LANGUAGE OPTION PRESET MENU	SET J SET J SET J SET J SET J SET J SET J SET J SET J	-
MENU	BACK	

A Adjusting synchronization signal (SYNC)

Adjusts vertical synchronization signal for the camera.

- Internal synchronization (INT)
- Power source synchronization (L-L)



B Setting lens aperture (IRIS)

Sets lens aperture according to the luminance level of the target object.

- Auto iris (AUTO)
- Manual iris (MANU)



C Setting the white balance (WHITE BALANCE)

Sets the white balance according to the shooting conditions.

- Auto trace white balance (ATW)
- One-push automatic white balance (AWC)
- Fixed white balance (3200/5600/FLUO)
- Manual white balance (MWB)



INT Α SYNC AUTO ↓ IRIS В WHITE BALANCE ATW OFF OFF BLC SHUTTER С APERTURE **ÖN** AGC GAMMA ÖN ţ D 0 45 DAY / NIGHT AUTO t Ε PRESET OFF F MENU BACK

D Setting the backlight compensation level (BLC)

Sets the backlight compensation function to get clearer image in backlight condition.

- Multi-spot evaluative metering (MULT)
- Center-weighted average metering (CENT)
- Multi-spot metering (MASK)
- OFF



The multi-spot metering (MASK) function is available only when registering a view setting file in the CAMERA VIEW screen (P27).

E Setting the electronic shutter (SHUTTER)

Sets the appropriate shutter speed according to your surveillance purpose.

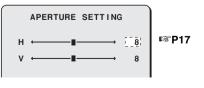
- Fast shutter speed (SHORT)
- Slow shutter speed (LONG)
- OFF



F Setting the profile compensation (APERTURE)

Adjusts the profile of the target object horizontally or vertically.

- ON ↓
- OFF



Camera Settings (CAMERA)

G Setting the AGC level (AGC)

Sets the AGC (Auto Gain Control) level in four grades.

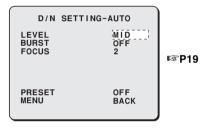
- ON (four grades)
- OFF

GAIN MAX GAIN DNR	SETTING NORMAL OFF	IS P17
PRESET	OFF Back	

Setting the Day/Night function (DAY/NIGHT)

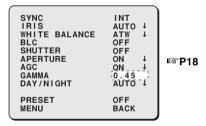
Switches automatically between color mode and black and white mode depending on the luminance of the object being monitored.

- Enabling the Day/Night function (AUTO)
- Using the color mode only (COLOR)
- Using the black and white mode only (B/W)



H Setting the gamma correction level (GAMMA)

Sets the gamma correction level to adjust the contrast or brightness level in four grades.



A Adjusting synchronization signal (SYNC)

The camera allows you to choose the synchronization signal adjustment method from the following options.

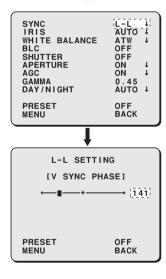
- Internal synchronization (INT) <Initial setting>
- Uses internal signal in the camera to adjust synchronization. • Power source synchronization (L-L)
- Uses the power source frequency to adjust the vertical synchronization phase.

SYNC IRIS WHITE BALANCE BLC SHUTTER APERTURE	AUTO ↓ ATW ↓ OFF OFF ON ↓
AGC GAMMA DAY/NIGHT	ON ↓ 0.45 AUTO ↓ OFF
PRESET MENU	BACK

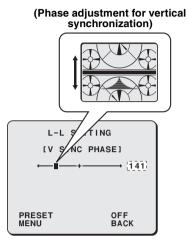
The internal synchronization (INT) is used as an initial setting. In this setting, the vertical synchronization tends to be unstable when multiple cameras are connected through the camera switcher and the camera to be monitored is switched. In this case, use the following steps to adjust the vertical synchronization phase.

1 Use the joystick lever (↓↑) to select [SYNC], use the lever (↔) to select "L-L", and press the [ENTER] button.

The L-L SETTING screen appears.



2 Use the joystick lever (↔) to adjust the value so that the image on the monitor does not move up and down when you use the camera switcher.



- After completing adjustment, use the lever to move the cursor to [MENU] and select "BACK" or "END".
- Adjustment using power source synchronization is available only for the area where the power supply frequency is 50Hz. This setting will not work in the area where the power supply frequency is 60Hz.

B Setting lens aperture (IRIS)

Sets lens aperture according to the luminance level of the target object.

The following methods are available for setting lens aperture.

- Auto iris (AUTO) <Initial setting>
- Manual iris (MANU)

SYNC IRIS WHITE BALANCE BLC SHUTTER APERTURE AGC GAMMA DAY/NIGHT	INT ATW OFF OFF ON ↓ 0.45 AUTO ↓
PRESET MENU	OFF BACK

Auto iris (AUTO)

Automatic setting of lens aperture provides natural images even outdoors where the luminance difference is large, or in backlight conditions.



Use the joystick lever $(\uparrow\downarrow)$ to select [IRIS], use the lever $(\leftarrow \rightarrow)$ to select "AUTO", and press the [ENTER] button.

The IRIS SETTING screen appears.

IRIS SETTING		
SENSE UP	OFF	
[LEV] ←───	EL] 40	
PRESET	OFF BACK	

Use the joystick lever (↑↓) to select [SENSE UP] and use the lever (←→) to select magnification power of electronic sensitivity.

Available settings: OFF, X2, X4, X8, X16, X32

- 3 Use the joystick lever (↑↓) to select [LEVEL] and use the lever (←→) to adjust the iris level. Available settings: 0 (dark) - 100 (bright)
- After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".
 - Electronic sensitivity boosting (SENSE UP) automatically lengthens the CCD exposure time in dark situations. Accordingly, moving target objects may cause conspicuous afterimages, blurs and white spots.
 - When electronic sensitivity boosting (SENSE UP) is enabled, the electronic shutter function will not work.
 - When the Day/Night function is set to "AUTO", electronic sensitivity boosting (SENSE UP) works only while black and white image is displayed.

Manual iris (MANU)

When the [IRIS] is set to "MANU", lens aperture can be set manually. Because activating the electronic iris disables the auto iris function, you need to set appropriate lens aperture using the following procedure.

-	
-	

Use the joystick lever (↑↓) to select [IRIS], use the lever (←→) to select "MANU", and press the [ENTER] button.

The IRIS SETTING screen appears.

	IRIS SETTIN	IG	
EI		OFF	
•	[IRIS STOP]		17
	[LEVEL]	→	40
		OFF BAC	к



Use the joystick lever $(\uparrow\downarrow)$ to select [EI] and use the lever $(\leftarrow\rightarrow)$ to select "ON".

The electronic iris function controls both the AGC circuit and shutter speed to change exposure value.

3 Use the joystick lever (↑↓) to select [IRIS STOP] and use the lever (←→) to adjust the aperture opening value.

Selecting the value changes the lens aperture opening. Available settings: 1 (close, darker) - 17 (open, brighter)

	4
ľ	

Use the joystick lever (↑↓) to select [LEVEL] and use the lever (←→) to adjust the iris level. Available settings: 0 (video level is darker) - 100 (video level

is brighter)

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Notes on setting electronic iris (EI):

- If the iris views an unusually bright image, it can cause a smear that cannot be corrected by adjusting the light entering through the lens. In this case, arrange the physical angle of lighting in a way that will prevent on-screen smearing.
 - If there is a fluorescent lighting in the camera location, flickering of the target object may occur. Changing fluorescent lighting to incandescent lighting will prevent the flickering.
 - When the electronic iris (EI) is activated, the electronic shutter (SHUTTER) setting cannot be made.

C Setting the white balance (WHITE BALANCE)

Sets the white balance according to the shooting conditions. The following methods are available for setting white balance.

- Auto trace white balance (ATW) <Initial setting>
- One-push automatic white balance (AWC)
- Fixed white balance (3200/5600/FLUO)
- Manual white balance (MWB)

SYNC	INT
IRIS	AUTO ↓
WHITE BALANCE	ATW ↓
BLC	OFF
SHUTTER	OFF
APERTURE	ON ↓
AGC	ON ↓
GAMMA	0.45
DAY/NIGHT	AUTO ↓
PRESET	OFF
MENU	BACK

Auto trace white balance (ATW)

Even when light sources of the target object change, automatic adjustment assures capture of most suitable colors.

Use the joystick lever ($\uparrow \downarrow$) to select [WHITE BALANCE] and use the lever ($\leftarrow \rightarrow$) to select "ATW \downarrow ".

Auto trace white balance settings are completed when "ATW \downarrow " is selected. When an extremely bright light source is in the target object, use the mask pattern so that the light source will not be detected.

Placing mask patterns

To place a mask pattern over specific light sources in the target object, do the following.



Mask patterns can be placed only when registering a view setting file in the CAMERA VIEW screen.

1

While "ATW \downarrow " is selected by using the joystick lever (\leftrightarrow), press the [ENTER] button.

The ATW SETTING screen appears.

ATW	SETTING
MASKING	ON ↓



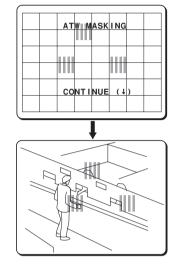
Use the joystick lever (↑↓) to select [MASKING], use the lever (↔) to select "ON ↓", and press the [ENTER] button.

The ATW MASKING screen appears. A mask pattern is displayed in the top left of the screen.

	AT	wм	ASK	ING		
	со	NTI	NUE	(↓)	

3 Use the joystick lever (↑↓ or ←→) to move a mask pattern to the light source area to be masked, and press the [ENTER] button.

This sets the mask pattern.



If you want additional mask patterns to be placed, repeat the above procedure.

<To delete the mask pattern>

Use the joystick lever ($\uparrow \downarrow$ or \leftrightarrow) to place a mask pattern over the mask pattern to be cancelled, then press the [ENTER] button.



Use the joystick lever (\downarrow) to move a mask pattern to the bottom area of the screen and continue holding the lever straight down for three seconds.

This completes the mask pattern setting procedure.

➡ After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

One-push automatic white balance (AWC)

In one-push automatic white balance setting, adjust white balance for a fixed surveillance location by orienting the lens toward the white target object (ex. white wall or paper).

4

Use the joystick lever $(\uparrow\downarrow)$ to select [WHITE BALANCE], use the lever (\leftrightarrow) to select "AWC \downarrow ", and press the [ENTER] button.

The AWC SETTING screen appears.

AWC SETT	ING
AWC LOCK	SET 4
GO TO MWB	SET ↓
MENU	BACK

While "SET ↓" for [AWC LOCK] is highlighted, orient the lens toward the white target object and press the [ENTER] button.

After the highlighted "SET \downarrow " option temporarily returns to normal indication for about two seconds, the "SET \downarrow " option is highlighted again and the white balance adjustment completes.

If the result of white balance adjustment is unsatisfactory, press the [ENTER] button again while "SET ↓" is highlighted.

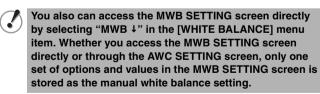
After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Fine-tuning white balance setting (GO TO MWB)

If you want to fine-tune white balance setting after one-push automatic white balance adjustment completes, you can adjust white balance manually. To adjust white balance manually, use the joystick lever ($\uparrow \downarrow$) to select [GO TO MWB] – "SET \downarrow ", and press the [ENTER] button.

The MWB SETTING screen appears.

For details on adjusting white balance manually, refer to the "Manual white balance (MWB)" section in the right column on this page.



Fixed white balance (3200/5600/FLUO)

You can set the color temperature of white balance setting to a fixed value.

1 Use the joystick lever $(\uparrow\downarrow)$ to select [WHITE BALANCE] and use the lever $(\leftarrow \rightarrow)$ to select (

BALANCE] and use the lever (↔) to select desired color temperature option.

SYNC IRIS WHITE BALANCE BLC SHUTTER APERTURE AGC GAMMA DAY/NIGHT	INT AUTO ↓ 3200 OFF OFF ON ↓ 0.45 AUTO ↓
PRESET	OFF
MENU	BACK

Available settings:

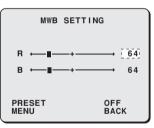
- 3200: Color temperature of 3,200K (For indoor)
- 5600: Color temperature of 5,600K (For outdoor)
- FLUO: Color temperature of 4,200K (For fluorescent lighting)

Manual white balance (MWB)

You can manually adjust white balance to your desired setting.

Use the joystick lever (↑↓) to select [WHITE BALANCE], use the lever (↔) to select "MWB ↓", and press the [ENTER] button.

The MWB SETTING screen appears.



-	
-	

1

Use the joystick lever (↑↓) to select color and use the lever (←→) to adjust darkness level for the color. Available settings: R (Red), B (Blue) Available settings: 0 - 255 (The larger the number, the darker the color is.)

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

D Setting the backlight compensation level (BLC)

Sets the backlight compensation function to get clearer image in backlight condition.

The following metering methods are available for the backlight compensation function.

- Multi-spot evaluative metering (MULT)
- · Center-weighted average metering (CENT)
- Multi-spot metering (MASK)

SYNC	INT
IRIS	AUTO ↓
WHITE BALANCE	ATW ↓
BLC	MULT ↓
SHUTTER	OFF
APERTURE	ON ↓
AGC	ON ↓
GAMMA	0.45
DAY/NIGHT	AUTO ↓
PRESET	OFF
MENU	BACK



If you do not use the backlight compensation function, set [BLC] to "OFF".

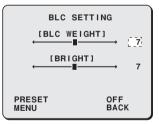
 The multi-spot metering (MASK) function is available only when registering a view setting file in the CAMERA VIEW screen (P27).

Multi-spot evaluative metering (MULT)

Evaluates the entire screen and corrects according to the best image obtained.

1 Use the joystick lever (↑↓) to select [BLC], use the lever (←→) to select "MULT ↓", and press the [ENTER] button.

The BLC SETTING screen appears.



2 Use the joystick lever (↑↓) to select [BLC WEIGHT] and use the lever (↔) to select the value of "BLC WEIGHT".

Available settings: 0 - 15 (The larger the number, the more backlighting works.)

3 Use the joystick lever (↑↓) to select [BRIGHT] and use the lever (↔) to adjust compensation level.

Adjusts the compensation level for the brightness of the backlighting.

Available settings: 0 - 15 (The larger the number, the more it brightens.)

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Center-weighted average metering (CENT)

Measures light mainly at the specified metering zone and compensates for brightness level according to the best image obtained.



Use the joystick lever (↑↓) to select [BLC], use the lever (↔) to select "CENT ↓", and press the [ENTER] button.

The BLC SETTING (POSITION) screen appears.

\square	SETTING SITION]	
+	51110N]	
	İ	
-		

2

3

Use the joystick lever to determine the position for the center-weighted average metering zone, and press the [ENTER] button.

The BLC SETTING (SIZE) screen appears.

BLC SETTING						
	[SIZE]					

Use the joystick lever to determine the size of the center-weighted average metering zone, and press the [ENTER] button.

The BLC WINDOW WEIGHTING screen appears.

BLC WINDOW WEIGHTING TOP 0 BOTTOM 0 LEFT 0 RIGHT 0 CENTERIFIXJ 7 PRESET OFF MENU BACK

Use the joystick lever $(\uparrow\downarrow)$ to select a zone to be Δ weighted and use the lever ($\leftarrow \rightarrow$) to adjust weighting.

Selecting a zone to be weighted shows the corresponding zone on the screen.

- TOP BOTTOM • RIGHT
- LEFT
- CENTER [FIX] (The value is fixed to "7".)

Available settings: 0 - 7 (The larger the number, the higher the weighting.)

IS After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Multi-spot metering (MASK)

Sets backlight compensation by masking the bright area of the background using mask patterns.

The multi-spot metering (MASK) function is available ./ only when registering a view setting file in the CAMERA VIEW screen (P27). Set [MASKING] to "ON" in the MOTION SETTING screen.

Use the joystick lever $(\uparrow\downarrow)$ to select [BLC], use the |1| lever ($\leftarrow \rightarrow$) to select "MASK \downarrow ", and press the [ENTER] button.

The BLC MASKING screen appears. A mask pattern is displayed in the top left of the screen.

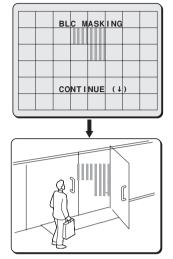
Mask pattern

	BL	см	ASK	I NG		
			٨			
T						
\	со	NTI	NUE	(↓)	

2

Use the joystick lever ($\uparrow \downarrow$ or $\leftarrow \rightarrow$) to move a mask pattern to the area to be excluded in metering, and press the [ENTER] button.

This sets the mask pattern for the area to be excluded in metering.



If you want additional mask patterns to be set, repeat the above procedure.

<To delete the mask pattern>

Use the joystick lever (↑↓ or ←→) to place a mask pattern over the mask pattern to be cancelled, then press the [ENTER] button.



Use the joystick lever (1) to move a mask pattern to the bottom area of the screen and continue holding the lever straight down for three seconds.

This completes the mask pattern setting procedure.

IN After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

E Setting the electronic shutter (SHUTTER)

Sets the appropriate shutter speed according to your surveillance purpose.

The following shutter speed modes are available.

- Fast shutter speed (SHORT)
- Slow shutter speed (LONG)

(
SYNC	INT
IRIS	AUTO ↓
WHITE BALANCE	ATW ↓
BLC	OFF
SHUTTER	SHORT
APERTURE	ON T
AGC	ON ↓
GAMMA	0.45
DAY/NIGHT	AUTO ↓
PRESET	OFF
MENU	BACK

If you do not use the electronic shutter, set [SHUTTER] to "OFF".

- The electronic shutter cannot be set in the following conditions.
 - For the auto iris setting, the electronic sensitivity setting is activated. (When the [IRIS] is set to "AUTO", [SENSE UP] in the IRIS SETTING screen is set to other than "OFF".)
 - For the manual iris setting, the electronic iris is activated. (When the [IRIS] is set to "MANU", [EI] is set to "ON".)

Fast shutter speed (SHORT)

When viewing fast-moving target objects, higher shutter speed produces clearer images with less blurs.

1

Use the joystick lever $(\uparrow\downarrow)$ to select [SHUTTER], use the lever (\leftrightarrow) to select "SHORT \downarrow ", and press the [ENTER] button.

The ES SETTING screen appears.

ES	SETTING	
SHUTTER	SPEED	50
PRESET MENU		OFF BACK



Use the joystick lever (↔) to select the desired shutter speed.

Available settings: 50, 120, 250, 500, 1000, 2000, 4000, 10000 (1/N sec.)

To avoid flicker

If the camera is installed under fluorescent lighting and the power supply frequency is 60Hz, set the shutter speed to "120 (1/120 sec)" to avoid flicker.

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Slow shutter speed (LONG)

When the target object is in dark condition, making the exposure time longer increases sensitivity, enabling you to view target object more brightly. Select desired shutter speed according to the shooting conditions.

The initial setting for slow shutter spped (LONG) is "x1".



Use the joystick lever $(\uparrow\downarrow)$ to select [SHUTTER], use the lever $(\leftarrow\rightarrow)$ to select "LONG \downarrow ", and press the [ENTER] button.

The ES SETTING screen appears.

ES	SETTING	
SHUTTER	SPEED	x1
PRESET		OFF
MENU		BACK



Use the joystick lever $(\leftarrow \rightarrow)$ to select the desired shutter speed.

Available settings: x1, x2, x4, x8, x16, x32

(Each option represents a multiple of field time. The higher the number, the longer the exposure time.)

When the exposure time is longer, moving objects may cause conspicuous afterimages, blurs and white spots.

^{ISS} After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

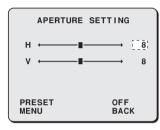
Setting the profile compensation (APERTURE)

Further emphasizes the profile of the target object. The amount of compensation can be adjusted for the horizontal or vertical directions.

SYNC IRIS WHITE BALANCE BLC SHUTTER APERTURE AGC GAMMA DAY/NIGHT	INT AUTO ATW OFF QEE ON ON 0.45 AUTO	↓ ↓ ↓
PRESET MENU	OFF BACK	

Use the joystick lever (↑↓) to select [APERTURE], use the lever (←→) to select "ON ↓", and press the [ENTER] button.

The APERTURE SETTING screen appears.



Available settings:

- OFF: The profile compensation is turned off.
- ON: The profile compensation is turned on.



Use the joystick lever (\leftrightarrow) to adjust the value for "H" (horizontal).

Available settings: 1 - 15 (The higher the number, the further the profile is emphasized.)

3 Use the joystick lever (↑↓) to move the cursor to "V" (vertical), and use the lever (↔) to adjust the value for "V".

Available settings: 1 - 15 (The higher the number, the further the profile is emphasized.)

^{IIS™} After completing adjustment, use the lever to move the cursor to [MENU] and select "BACK" or "END".

G Setting the AGC level (AGC)

Sets the AGC (Auto Gain Control) level in four grades.

If you do not use the AGC function, set [AGC] to "OFF".

Setting AGC

Use the joystick lever (↑↓) to select [AGC], use the lever (←→) to select "ON ↓", and press the [ENTER]

button.

The GAIN SETTING screen appears.

	GAIN	SETTING
MAX	GAIN	NORMAL
DNR		OFF

Memo: Auto Gain Control (AGC) is a function that automatically adjusts gain level in the amplifier section for the camera's video signal according to the brightness of the target object and keeps the signal output level constant. When the target object is bright, the gain level is decreased; when it is dark, the level is increased.

Use the joystick lever (↑↓) to select [MAX GAIN] and use the lever (←→) to adjust AGC level.

Available settings:

- NORMAL: Initial setting
- MIDDLE: For dark target object
- HIGH: For very dark target object
- LOW: For bright target object

Memo: The "LOW" option cannot be selected when the Day/Night function is set to "AUTO".

- The value for the "MAX GAIN" setting depends on the Day/Night function mode.
- When the gain level is increased, the sensitivity is improved in dark condition, but the noise level increases.

3

Use the joystick lever ($\uparrow \downarrow$) to select [DNR] and use the lever (\leftrightarrow) to select a DNR (Digital Noise Reduction) option.

Available settings:

- ON: Applies DNR. (Reduces noise during low luminance level.)
- OFF: Does not apply DNR.

Digital noise reduction operates when the gain level increases. In addition, blurring and ghosting of images can occur when moving images are monitored, so the resolution is also reduced slightly. When the electronic zoom is operating in the color mode, the DNR (Digital Noise Reduction) does not function.

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Setting the AGC level manually

When the AGC function is set to "OFF", the gain level for camera's video signal can be specified manually.



.

Use the joystick lever $(\uparrow\downarrow)$ to select [AGC], use the lever (\leftrightarrow) to select "OFF", and press the [ENTER] button.

The GAIN SETTING screen appears.

GAIN	SETTING	
B+-		0 dB
PRESET MENU		F F ACK

Use the joystick lever $(\leftarrow \rightarrow)$ to select the gain level value.

Available settings: 0 - 30dB (The higher the number, the more the gain level is increased.)

- When the Day/Night function is set to "AUTO", the AGC function cannot be set to "OFF".
 - The "AGC" can be set to "OFF" only when [SENSE UP] in the IRIS SETTING screen is set to "OFF".
- IS After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Setting the gamma correction level Н (GAMMA)

Sets the gamma correction level to adjust the contrast or brightness level in four grades.

SYNC IRIS WHITE BALANCE BLC SHUTTER APERTURE AGC GAMMA DAY/NIGHT	INT AUTO ↓ ATW ↓ OFF OFF ON ↓ 0.45 AUTO ↓
PRESET	OFF BACK



Use the joystick lever (↑↓) to select [GAMMA] and use the lever $(\leftarrow \rightarrow)$ to adjust the gamma correction level.

Available settings:

- 0.45: $\gamma = 0.45$
- 1: γ= **1**
- MODE1: Increases the contrast of the dark parts.
- MODE2: Further increases the contrast of the dark parts.

When "MODE1" or "MODE2" is selected, the image can be too bright depending on the target object.

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

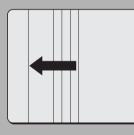
I Setting the Day/Night function (DAY/NIGHT)

Switches automatically between color mode and black and white mode depending on the luminance of the object being monitored. This function lets you set the filming mode to color mode during times of normal brightness like daytime or to black and white mode during times of darkness like night.

- Enabling the Day/Night function (AUTO)
- Using the color mode only (COLOR)
- Using the black and white mode only (B/W)

SYNC IRIS WHITE BALANCE BLC SHUTTER APERTURE AGC GAMMA DAY/NIGHT PRESET MENU	INT AUTO ↓ ATW ↓ OFF OFF ON ↓ 0.45 AUTO ↓ OFF BACK
--	---

A sound from the camera may be heard when the color image or black and white image is switched. Also, the image will be distorted as shown in the figure below. This is normal and does not indicate a problem.



- · If the power is turned off in the black and white mode and the power is turned on again, the color mode will be used. The focused position may be differently adjusted between the color mode and the black and white mode. Adjust focusing so that the focused position matches between the color mode and the black and white mode.
- When using infrared lighting in black and white mode, if there is a strong reflection on the subject, the black and white mode may switch to color mode. Use only enough infrared lighting so that the mode is not switched.

(For VCC-MC600P only)

Setting the Day/Night function (AUTO)

This function automatically switches between the color mode and the black and white mode according to the luminance of the target object. The color mode is used for daytime; the black and white mode is used for night.



Use the joystick lever (1 +) to select [DAY/NIGHT], use the lever ($\leftarrow \rightarrow$) to select "AUTO \downarrow ", and press the [ENTER] button.

The D/N SETTING-AUTO screen appears.

D/N	SETT ING-AUTO
LEVEL	MID
BURST	OFF
FOCUS	2



Use the joystick lever (1 +) to select [LEVEL], use the lever (\leftrightarrow) to select a luminance level where the viewing mode between the color mode and black and white mode is switched, and press the [ENTER] button.

Available settings:

- MID: The mode switches when the luminance of the objects being monitored is between the "LOW" and "HIGH" levels.
- HIGH: The mode switches when the luminance of the objects being monitored is comparatively bright (the black and white mode is used longer).
- ADJJ: Sets the switching luminance level manually. When you select "ADJ J", the LEVEL SETTING screen appears allowing you to perform manual settings for the switching luminance level.
- LOW: The mode switches when the luminance of the objects being monitored is comparatively dark (the color mode is used longer).

<The LEVEL SETTING screen under the "ADJ" option>



(1) COLOR → B/W

Sets the luminance level for switching from the color mode to the black and white mode.

Available settings: 1 - 7 (The larger the value, the darker the switching luminance level.)

(2) $B/W \rightarrow COLOR$

Sets the luminance level for switching from the black and white mode to the color mode.

Available settings: 1 - 7 (The larger the value, the brighter the switching luminance level.)

- Memo: In the "ADJ" setting, changing the setting for one of the switching level settings (from color mode to black and white mode or from black and white mode to color mode) causes the other setting to change also.
 - · Increasing the luminance level difference avoids hunting under IR (infrared) lighting.

3

Use the joystick lever $(\uparrow\downarrow)$ to select [BURST] and use the lever $(\leftarrow \rightarrow)$ to select "ON/OFF".

If the camera is connected to peripheral devices like frame switcher, burst may occur when the viewing mode is switched between the color mode and the black and white mode. In this case, compensate for the image by inserting the color burst signals.

In general, set this option to "OFF".

Available settings:

- **ON:** The color burst signal is turned on.
- OFF: The color burst signal is turned off.

Use the joystick lever (↑↓) to select [FOCUS] and use the lever (←→) to select the focus compensation mode.

In general, set this option to "2". If images are out of focus, set this option to "1".

Available settings:

- 1: Near-infrared wavelength correction (around 900nm) is set during the black and white mode.
- 2: Visible light spectrum is set during the color mode.

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

While the Day/Night function is set to "AUTO", the following applies.

- Multi-spot evaluative metering (MULT) selected in the backlight compensation level (BLC) setting works during the color mode.
- The electronic sensitivity boosting (SENSE UP) selected in the lens aperture (IRIS) setting works during the black and white mode.
- The AGC function cannot be set to "OFF".

Using the color mode only (COLOR)

Regardless of the luminance level, only use the color mode to view the image.



Use the joystick lever (↑↓) to select [DAY/NIGHT], use the lever (↔) to select "COLOR ↓", and press the [ENTER] button.

The D/N SETTING-COLOR screen appears.

D/N SETTING-COLOR			
EXT ALARM	OFF		
PRESET	OFF BACK		
	BROK		



Use the joystick lever (↑↓) to select [EXT ALARM] and use the lever (←→) to select the channel used for external alarm input.

When [EXT ALARM] is set to "1" - "8", receiving external alarm input automatically switches the color mode to the black and white mode.

Available settings:

- OFF: Does not switch the color mode to the black and white mode when receiving external alarm input.
- 1-8: Switches the color mode to the black and white mode when receiving external alarm input. (Select an input channel used for external alarm input.)
- After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Using the black and white mode only (B/W)

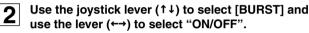
1

Regardless of the luminance level, only use the black and white mode to view the image.

Use the joystick lever $(\uparrow\downarrow)$ to select [DAY/NIGHT], use the lever $(\leftrightarrow \rightarrow)$ to select "B/W \downarrow ", and press the [ENTER] button.

The D/N SETTING-B/W screen appears.

D/N	SETTING-B/W	
BURST	OFF	
FOCUS	1	
PRESET	OFF	
MENU	Back	



Sets whether the color burst signal is turned on or off. In general, set this option to "OFF".

Available settings:

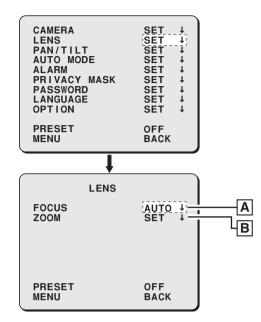
- **ON:** The color burst signal is turned on.
- OFF: The color burst signal is turned off.
- Use the joystick lever (↑↓) to select [FOCUS] and use the lever (←→) to select focus compensation mode.

In general, set this option to "1". If images are out of focus, set this option to "2".

Available settings:

- 1: Near-infrared wavelength correction (around 900nm) is set during the black and white mode.
- 2: Visible light spectrum is set during the color mode.
- After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Lens Settings (LENS)



A Setting the focusing mode (FOCUS)

You can select the focusing mode from the following options.

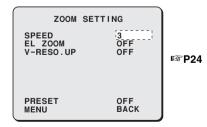
- Auto focus (AUTO)
- Manual focus (MANU)

FOCUS SETTING		
LIMIT NEAR SENSITIVITY AREA AF RETURN	HIGH SET ↓ 30S	
PRESET MENU	OFF BACK	



B Setting the zooming operations (ZOOM)

For zooming operations, you can set the zooming speed and electronic zooming options.



A Setting the focusing mode (FOCUS)

You can select the focusing mode from the following two options.

- Auto focus (AUTO)
- Manual focus (MANU) •



Auto focus (AUTO)

Performs settings for the auto focus function.

- Using the auto focus function in surveillance for longer hours shortens the life of the lens unit. If performing surveillance for an extended period (24 hours or more), you are recommended to use manual focus.
- Use the joystick lever (11) to select [FOCUS], use 1 the lever (\leftarrow) to select "AUTO \downarrow ", and press the [ENTER] button.

The FOCUS SETTING screen appears.

FOCUS SETTING		
LIMIT NEAR	1m	
SENSITIVITY	HIGH	
AREA	SET ↓	
AF RETURN	30S	

2 Use the joystick lever (1) to select [LIMIT NEAR] and use the lever $(\leftarrow \rightarrow)$ to select the nearest focusing distance to the target object.

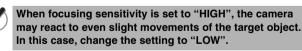
Available settings: 10cm, 30cm, 50cm, 1m, 3m, 5m

- When the distance to the target object is less than or equal to 1m, focusing may become difficult.
- 3 Use the joystick lever (↑↓) to select [SENSITIVITY] and use the lever $(\leftarrow \rightarrow)$ to select sensitivity in focusing.

Available settings:

.

- HIGH: High sensitivity focusing
- LOW: Low sensitivity focusing



Use the joystick lever (↑↓) to select [AREA] -"SET↓", and press the [ENTER] button.

The AREA SETTING screen appears.

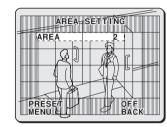
In [AREA], select the area used for auto focusing.

Available settings:

• 1 (full screen)

	AREASE	TTING	
ARE	A	1	
	QI		
	4 ()		5
	PAI	JP	
		J g	FF ACK

• 2 (center of screen: initial setting)



• 3 (smaller center)

AREA	ETTING
	แต่ป
A I	r r
4 ()	
- AA	JA
PRESET	OFF
	J OFF BACK

Setting the auto focus auto return function (AF RETURN)

When [FOCUS] is set to "AUTO" in the LENS screen, this function automatically restores the focusing mode to the auto focus mode (AUTO) after manual focus (MANU) operations are completed.

Use the joystick lever (1 +) to select [AF RETURN] and use the lever $(\leftarrow \rightarrow)$ to select time for switching automatically from manual focusing to auto focusing.

Available settings:

- AUTO: When an operation other than manual focusing is performed, the focusing mode returns to the auto focus mode.
- 20S, 30S, 40S, 50S, 1M, 2M, 3M, 4M, 5M (S: Second, M: Minute): Returns the focusing mode to the auto focus mode after the duration selected in this option has passed.
- IS After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Manual focus (MANU)

Sets the nearest focusing distance to the target object and the focusing speed while performing manual focusing.



1

When the distance to the target object is less than or equal to 1m, focusing may become difficult.

Use the joystick lever (1) to select [FOCUS], use the lever ($\leftarrow \rightarrow$) to select "MANU \downarrow ", and press the [ENTER] button.

The FOCUS SETTING screen appears.

FOCUS SETTING		
LIMIT NEAR	1 m	
SPEED	3	
PRESET	OFF	
MENU	BACK	

2

Use the joystick lever (1) to select [LIMIT NEAR] and use the lever $(\leftarrow \rightarrow)$ to select the nearest focusing distance to the target object. Available settings: 10cm, 30cm, 50cm, 1m, 3m, 5m

Use the joystick lever (1 +) to select [SPEED] and 3 use the lever $(\leftarrow \rightarrow)$ to select the focusing speed. Available settings: 1, 2, 3, 4 (The larger the value, the faster

the focusing speed.)

IN After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

B Setting the zooming operations (ZOOM)

You can select zooming speed to target object and magnification power of electronic zoom.

	LENS	
FOCUS ZOOM		SET ↓



Use the joystick lever ($\uparrow \downarrow$) to select [ZOOM] – "SET \downarrow ", and press the [ENTER] button.

The ZOOM SETTING screen appears.

ZOOM	SETTING
SPEED EL ZOOM V-RESO.UP	3 OFF OFF

2 Use the joystick lever $(\uparrow\downarrow)$ to select [SPEED] and use the lever $(\leftarrow\rightarrow)$ to select zooming speed.

Available settings: 1, 2, 3, 4 (The larger the value, the faster the zooming speed.)

3 Use the joystick lever (↑↓) to select [EL ZOOM] and use the lever (←→) to select magnification power of electronic zoom.

The electronic zooming activates when an zooming operation goes beyond the maximum magnification power of optical zoom.

Available settings: OFF (Electronic zoom is turned off.) x2, x4, x8, x16

Use the joystick lever (↑↓) to select [V-RESO.UP] and use the lever (←→) to select a vertical resolution.

Available settings:

- **ON:** Improves vertical resolution while using the electronic zoom.
- OFF: Does not improve vertical resolution while using the electronic zoom.
- Memo: When the vertical resolution improvement is set to "ON", moving target objects will cause conspicuous afterimages and blurs.
- After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

In the following condition, the vertical resolution improvement (V-RESO.UP) will be set to "OFF" automatically.

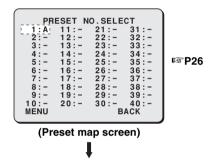
- When the electronic sensitivity setting (SENSE UP) is set to "ON" in the auto iris setting (AUTO).
- When the electronic shutter setting (SHUTTER) is set to "LONG" (Slow shutter speed mode).
- When the digital noise reduction setting (DNR) is set to "ON" in the auto gain control setting (AGC).

Pan and Tilt Settings (PAN/TILT)

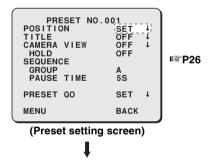
CAMERA	SET ↓
LENS	SET ↓
PAN/TILT	SET ↓
AUTO MODE	SET ↓
ALARM	SET ↓
PRIVACY MASK	SET ↓
PASSWORD	SET ↓
LANGUAGE	SET ↓
OPTION	SET ↓
PRESET	OFF
MENU	BACK

A Registering a surveillance location (PRESET POSITION)

Pan and tilt settings such as camera's orientation can be registered as preset positions. Preset positions can be grouped and individual preset position groups can be used for Sequence mode.



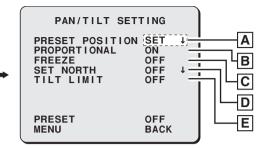
Selecting a preset number displays the screen for selecting preset options.



Selecting [CAMERA VIEW] displays the CAMERA VIEW screen used for configuring the camera view setting file.

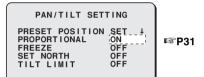


(CAMERA VIEW screen)



B Making the amount of movement in the screen constant (PROPORTIONAL)

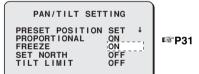
You can make the amount of movement in the screen constant by changing the moving speed of the camera during manual operation according to the zoom magnification power.





Displaying a still image while switching the surveillance location (FREEZE)

The still image can be used in the screen while switching to other preset position.



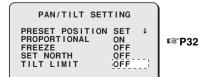
D Setting the starting point (0 degrees) angle information (SET NORTH)

You can set the starting point (0 degrees) angle for the camera by orienting it to your desired direction and saving the direction information.



E Limiting the tilting angle (TILT LIMIT)

You can limit the tilting angle of the camera to your desired value.



A Registering a surveillance location (PRESET POSITION)

When registering the surveillance location as preset position, you can change orientation of the camera by selecting the preset number.

PAN/TILT SETTI	NG
SET NORTH O	

Determining the surveillance position (POSITION)

Use the joystick lever (↑↓) to select [PRESET POSITION] – "SET ↓", and press the [ENTER] button.

The preset map screen appears.

1 : A 2 : - 3 : - 4 : - 5 : - 6 : - 7 : - 8 : - 9 : - 1 0 : -	ESET N 11:- 12:- 13:- 14:- 15:- 16:- 17:- 18:- 19:- 20:-	IO.SELE 21:- 22:- 23:- 24:- 25:- 26:- 26:- 27:- 28:- 29:- 30:-	31 : - 32 : - 33 : - 34 : - 35 : - 36 : - 37 : - 38 : - 39 : - 40 : -
MENU		B	ACK
mento			AON

To select a preset number to register the camera's orientation:

- Use the joystick lever (↑↓ or ↔) to move the cursor to a preset number used for registration.
- · Available preset numbers are 1 to 127.
- Preset numbers can be displayed up to 40 in one page. Moving the cursor to the leftmost or rightmost of the screen and continuing to press the joystick lever to the left or right changes the screen to the previous or next page.
 - Pressing to the right: Displays next page.
 - Pressing to the left: Displays previous page.
- 2 Use the joystick lever (↑↓) to select a preset number to register the camera's orientation, and press the [ENTER] button.

The preset setting screen appears.

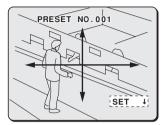
PRESET NO.	001
POSITION	SET ↓
TITLE	OFF ↓
CAMERA VIEW HOLD SEQUENCE	OFF ↓ OFF
GROUP	A
PAUSE TIME	5S
PRESET GO	SET ↓

- The preset number 1 is used as home position and cannot be deleted. Initial setting is registered with preset number 0. When resetting the camera, the setting registered with the preset number 0 is also used for the preset number 1.
 - The preset number 0 is not available for user-defined settings.
 - When auto flip is set to ON for a preset position, the preset location may slip a little. In this case, reset the setting to correct the problem. (P50)

3 Use the joystick lever (1 +) to select [POSITION] –

"SET ↓", and press the [ENTER] button.

The screen for determining the surveillance location appears.



4

Use the joystick lever to determine the surveillance location, and press the [ENTER] button.

This sets the surveillance location and displays the preset setting screen again.

Specifying the camera ID and title

When you connect multiple cameras to the surveillance system, specify the camera ID for identifying individual cameras. You also can set a specific title to preset position for easier management.



Use the joystick lever (↑↓) to select [PRESET POSITION] – "SET ↓", and press the [ENTER] button.

The preset map screen appears.

2 Use the joystick lever (↑↓) to select a preset number to specify the ID or title, and press the [ENTER] button.

The preset setting screen appears.

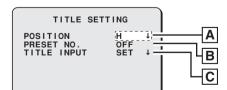
PRESET NO.	.001
POSITION	SET ↓
TITLE	OFF ↓
CAMERA VIEW	OFF ↓
HOLD	OFF
SEQUENCE	
GROUP	A
PAUSE TIME	5S



Use the joystick lever (↑↓) to select [TITLE], use the lever (↔) to select "ON ↓", and press the [ENTER] button.

Available settings:

- OFF: Does not specify the camera ID and title.
- ON: Specifies the camera ID and title. (The TITLE SETTING screen appears.)



A Selecting the display format and position (POSITION)

① Use the joystick lever (1 +) to select [POSITION], use the lever ($\leftarrow \rightarrow$) to select the display format ("H" or "V"), and press the [ENTER] button.

Available settings:

- H: The camera ID and title are displayed in a horizontal line
- V: The camera ID and title are displayed in a vertical line.
- 2 While checking the monitor screen, use the joystick lever to determine the display position, and press the [ENTER] button.

The TITLE SETTING screen appears again.

B Setting whether to display the preset number or not (PRESET NO)

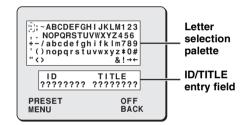
Use the joystick lever (↑↓) to select [PRESET NO] and use the lever ($\leftarrow \rightarrow$) to select "ON/OFF".

Available settings:

- OFF: Does not display the preset number on the screen.
- ON· Displays the preset number to the left of or above the camera ID and title.

C Entering the camera ID and title (TITLE INPUT) Use the joystick lever ($\uparrow\downarrow$) to select [TITLE INPUT] – "SET \downarrow ", and press the [ENTER] button.

The screen for entering the camera title appears.



Example: To specify "CAM1" for the ID and "FLOOR" for the title:

- ① Use the joystick lever to move the cursor to the first place of the ID entry field.
- 2 Use the joystick lever to move the cursor to "C" in the letter selection palette, and press the [ENTER] button. "C" appears in the first place of the ID entry field.

Use the same procedure shown above to enter "A", "M" and "1".

③ Use the joystick lever to move the cursor to the first place of the title entry field, use the lever to move the cursor to "F" in the letter selection palette, and press the [ENTER] button.

Use the same procedure shown above to enter "L", "O", "O" and "R".

<Canceling the camera ID or title>

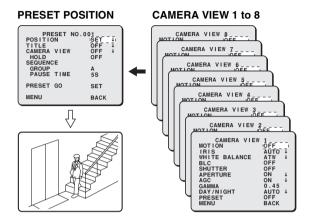
Use the joystick lever (1 +) to select [PRESET], use the lever (↔) to select "ON ↓", and press the [ENTER] button. All the letters entered for the ID and title return to "?".

Memo: • The camera ID can be set only for the preset number 1.

- The camera ID set for the preset number 1 will automatically be applied for preset number 2 and after.
 - · To display the camera ID and title on the screen, set [CAMERA ID] and [TITLE] in the [DISPLAY] screen under the INFORMATION screen to "ON".

Registering a view setting file (CAMERA VIEW)

To support shooting in various surveillance conditions like when the surveillance location is bright (or dark), the CAMERA VIEW screen allows you to register up to 8 patterns of shooting settings as camera view setting files. Specify the applied view setting file to each preset number





Use the joystick lever (1 +) to select [PRESET POSITION] – "SET ↓", and press the [ENTER] button.

The preset map screen appears.

Use the joystick lever $(\uparrow\downarrow)$ to select a preset 2 number to register a view setting file, and press the [ENTER] button.

The preset setting screen appears.

PRESET NO.	
POSITION	SET ↓
TITLE CAMERA VIEW	OFF ↓
HOLD	OFF
SEQUENCE	
GROUP	A
PAUSE TIME	5S

About the HOLD function

When setting [HOLD] to "ON", the settings for [CAMERA VIEW] is retained even when pan/tilt operations are performed at preset positions.

Moving to a preset position (PRESET GO) or performing operations in the Auto mode disables the HOLD function.

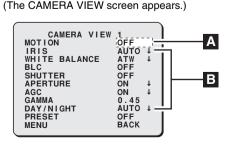
Use the joystick lever (1+) to select [CAMERA

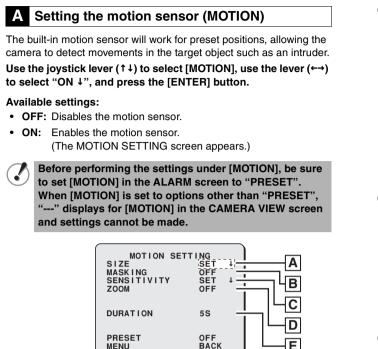
3

VIEW], use the lever $(\leftarrow \rightarrow)$ to select the number of the view setting file, and press the [ENTER] button. Available settings:

• OFF: OFF (Does not register view setting files.)

- 1 8: Registers a view setting file.
 - (The CAMERA VIEW screen appears.)



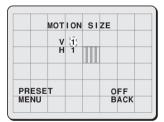


A Setting the size of the motion sensor (SIZE)

Set the detection pattern according to the size of the target object to be detected for alarm. A movement in the target object will be detected within the area where the detection pattern is specified.

 Use the joystick lever (↑↓) to select [SIZE] – "SET ↓", and press the [ENTER] button.

The MOTION SIZE screen appears displaying the detection pattern (V1/H1) in the center of the screen.



② Use the joystick lever to adjust the values for "V" and "H" settings.

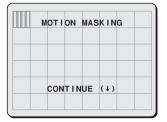
The size of the detection pattern will change depending on the values set for "V" and "H".

- V: 1 6 (Sets the size for vertical direction.)
- H: 1 8 (Sets the size for horizontal direction.)
- Memo: The maximum value for "V x H" is 9. When setting "V" or "H" and the multiplied value exceeds the maximum value, the other value will automatically be adjusted so that the value for "V x H" does not exceed 9.

B Setting the mask patterns for the area to be excluded in motion detection (MASKING)

If you have an area where you don't want to detect motion in the target object (swaying trees, flickering of light, etc.), you can set the mask pattern over the area so that the motion sensor does not react to it.

① Use the joystick lever (↑↓) to select [MASKING], use the lever (↔) to select "ON ↓", and press the [ENTER] button. The MOTION MASKING screen appears. A mask pattern is displayed in the top left of the screen.



② Use the joystick lever to move the mask pattern to the area where you don't want to detect motion, and press the [ENTER] button.

This sets one mask pattern for the area to be excluded in detecting. If you want additional mask patterns to be set, repeat the above procedure.

<To delete the mask pattern>

Use the joystick lever ($\uparrow \downarrow$ or \leftrightarrow) to place a mask pattern over the mask pattern to be cancelled, then press the [ENTER] button.

③ Use the joystick lever (↓) to move a mask pattern to the bottom area of the screen and continue holding the lever straight down for three seconds.

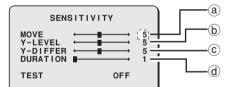
This completes the mask pattern setting procedure.

C Setting the detection sensitivity (SENSITIVITY)

You can set the level of sensitivity for motion detection. Adjusting the level of sensitivity avoids unwanted detection.

 Use the joystick lever (↑↓) to select [SENSITIVITY] – "SET ↓", and press the [ENTER] button.

The SENSITIVITY screen appears.



- ② Set the detection level for the following parameters. For all parameters, the larger the value, the lower the sensitivity.
 - ⓐ Motion sensitivity (MOVE): 1 10

To avoid detection of small movements, make the value larger.

- Brightness level (Y-LEVEL): 1 10
 When noise from a dark screen is causing erroneous detections, make the value larger.
- C Brightness differences (Y-DIFFER): 1 10 To avoid detection of lights turning on and off, make the value larger.
- d Duration (DURATION): 1 60
 To avoid detection of fast movements, make the value larger.
- ③ To test the sensitivity settings, use the joystick lever (↑↓) to select [TEST] and use the lever (↔) to select "ON". When a motion is detected, patterns are shown in that location. Adjust the setting values as necessary.

D Setting zooming operation options (ZOOM)

When a motion is detected, the camera zooms in and out automatically.

- Use the joystick lever (↑↓) to select [ZOOM] and use the lever (←→) to select zooming mode.
 - Available settings:
 - **OFF:** Disables the auto zooming. (Initial setting)
 - **IN:** Performs detection at the center of the screen and zooms in along the optical axis.
 - OUT: Performs detection over the full screen (except for the masked area) and zooms out along the optical axis.
 - **IN-MOV:** Performs detection over the full screen (except for the masked area) and zooms in at the position where motion was detected.
- ② Select the optical zoom magnification power (RATIO) according to the zooming mode you selected. Available settings:
 - IN: x1.4, x2, x2.8, x4, x5.6, x8, FULL (zooming in to the TELE end), MANU (manual setting)
 - OUT: x1/1.4, x1/2, x1/2.8, x1/4, x1/5.6, x1/8, FULL (zooming out to the WIDE end), MANU (manual setting)
 - IN-MOV: x1.4, x2, x2.8, x4, x5.6, x8, FULL (zooming in to the TELE end), MANU (manual setting)
- Memo: When selecting "MANU", the RATIO SETTING screen appears. While monitoring the actual image and performing zooming operation, specify the zoom magnification power, then press the [ENTER] button. The zoom magnification power value appears in the bottom left of the screen.
 - Select the duration for the zooming operation (TIME) Available settings: (common to all zooming modes)
 5S, 10S, 15S, 20S, 30S, 45S, 1M, 2M, 3M, 4M, 5M (S: Second, M: Minute)

The value you can select here should be within the duration specified in the [DURATION] setting (see step E below).

E Setting the interval after which the next alarm becomes in effect (DURATION)

When a motion is detected and an alarm signal is output, another alarm signal will not be output until the duration specified in this setting has passed.

Use the joystick lever $(\uparrow\downarrow)$ to select [DURATION] and use the lever $(\leftarrow \rightarrow)$ to select the interval after which the next alarm becomes in effect.

Available settings: 5S, 10S, 15S, 20S, 30S, 45S, 1M, 2M, 3M, 4M, 5M (S: Second, M: Minute)

B Setting related options other than motion sensor

The following settings are common to the ones performed in the camera and lens settings. See their respective reference pages.

- IRIS (Page 11)
- WHITE BALANCE (Page 12)
- BLC (Page 14)
- SHUTTER (Page 16)
- APERTURE (Page 17)
- AGC (Page 17)
- GAMMA (Page 18)
- DAY/NIGHT (Page 19)

Memo: • The IRIS, SHUTTER and MOTION functions can be used in the combination shown in the table below

IRIS		AUTO: SENSE UP (ON)		×	×	×	×
		MANU: EI (ON)	×	0	×	×	0
SHUT	TER	LONG	×	×	0	×	×
		SHORT	×	×	×	0	\bigcirc
MOTIC	DΝ		×	\odot	×	\odot	0

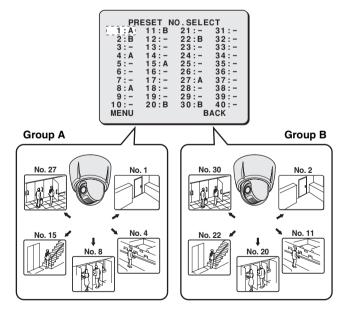
O: Function is set X: Not allowable O: Allowable

☑: When exiting individual menu, settings will be cancelled.

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Grouping the preset positions (SEQUENCE GROUP)

Each preset position can be assigned to a group (A to D). The group can be used for the Sequence mode to monitor multiple surveillance locations sequentially.



Use the joystick lever (↑↓) to select [PRESET POSITION] – "SET ↓", and press the [ENTER] button.

The preset map screen appears.

Pan and Tilt Settings (PAN/TILT)

2

Use the joystick lever $(\uparrow\downarrow)$ to select a preset number to assign to a group, and press the [ENTER] button.

The preset setting screen appears.

PRI POSITIC TITLE CAMERA HOLD SEQUENC GROUP PAUSE	VIEW	01 SET ON 1 OFF A 5S	↓ ↓ ↓
PRESET	GO	SET	t
MENU		BACK	

Use the joystick lever (↑↓) to select [SEQUENCE GROUP] and use the lever $(\leftarrow \rightarrow)$ to select a group to assign the preset number.

Available settings:

- Does not assign to a group. (Registers the • *: preset number only.)
- A, B, C, D: Assigns a preset number to the group you selected. Assigned group is shown in the preset map screen.

Use the joystick lever (1 +) to select [PAUSE TIME] and use the lever $(\leftarrow \rightarrow)$ to select the pause duration for sequential panning operation.

Available settings:

3S, 4S, 5S, 6S, 7S, 8S, 9S, 10S, 15S, 20S, 30S, 45S, 1M (S: Second, M: Minute)

IS After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Deleting a preset position (DELETE)

The preset number "1" cannot be deleted.

Use the joystick lever (1 +) to select [PRESET POSITION] – "SET ↓", and press the [ENTER] button.

The preset map screen appears.

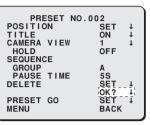
2

Use the joystick lever $(\uparrow\downarrow)$ to select a preset number to delete, and press the [ENTER] button. The preset setting screen appears.

PRESET NO.(POSITION TITLE CAMERA VIEW	002 SET ↓ ON ↓
HOLD SEQUENCE GROUP	ÓFF A
PAUSE TIME	5S
DELETE	SET ↓
PRESET GO	SET ↓
MENU	BACK

Use the joystick lever (↑↓) to select [DELETE] -3 "SET ↓", and press the [ENTER] button.

"OK? ↓" appears under "SET ↓".





Use the joystick lever (14) to select "OK?", and press the [ENTER] button.

The preset position you selected is deleted and the indication in the preset map screen changes to "-".

	FOFT N		о т
PR	ESEI N	O.SELE	CI
1:A	11:-	21:-	31:-
2:-	12:-	22:-	32:-
3:-	13:-	23:-	33:-
4:-	14:-	24:-	34:-
5:-	15:-	25:-	35:-
6:-	16:-	26:-	36:-
7:-	17:-	27:-	37:-
8:-	18:-	28:-	38:-
9:-	19:-	29:-	39:-
10:-	20:-	30:	40:-
MENU		В	ACK
<u> </u>			

Switching to a preset position (PRESET GO)

You can switch the surveillance location to a preset position by using the following procedure.

1

Use the joystick lever (↑↓) to select [PRESET POSITION] – "SET ↓", and press the [ENTER] button.

The preset map screen appears.

2

Use the joystick lever $(\uparrow\downarrow)$ to select a preset number, and press the [ENTER] button.

The preset setting screen appears.

When a preset position is registered, the surveillance location moves to the preset position.

3

Use the joystick lever (11) to select [PRESET GO] -"SET ↓", and press the [ENTER] button.

The menu screen closes with the surveillance position being at the preset position.

³ Making the amount of movement in the screen constant (PROPORTIONAL)

The proportional function allows you to make the amount of movement in the screen constant by changing pan/tilt operation speed during manual operation according to the zoom magnification power.

Use the joystick lever (↑↓) to select

[PROPORTIONAL] and use the lever $(\leftarrow \rightarrow)$ to select "ON".

PAN/TILT SETTING
PRESET POSITION SET + PROPORTIONAL OF FREEZE OFF SET NORTH OFF TILT LIMIT OFF
PRESET OFF MENU BACK

Available settings:

- **OFF:** Disables the proportional function.
- ON: Enables the proportional function.
- After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Displaying a still image while switching the surveillance location (FREEZE)

While the surveillance location moves by the Sequence mode or manual preset (PRESET GO) operations, the freeze function displays the still image immediately before the camera starts moving. After movement of the surveillance location completes, the still image is switched to the video image of the new surveillance location.

1

Use the joystick lever $(\uparrow\downarrow)$ to select [FREEZE] and use the lever (\leftrightarrow) to select "ON".

PAN/TILT SE	TTING
PRESET POSITIO PROPORTIONAL FREEZE SET NORTH TILT LIMIT	N SET ↓ ON OFF OFF
PRESET MENU	OFF BACK

Available settings:

- OFF: Disables the freeze function.
- ON: Enables the freeze function.
- After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

D Setting the starting point (0 degrees) angle information (SET NORTH)

When you install the camera and the starting point (0 degrees) angle information for the camera needs to be specified, set the angle information using the following procedure. You can set any direction as the starting point (0 degrees) indicating north direction.

Use the joystick lever to orient the camera in the direction you want to set as the starting point.

2

1

Use the joystick lever $(\uparrow\downarrow)$ to select [SET NORTH], use the lever $(\leftarrow\rightarrow)$ to select "SET", and press the [ENTER] button.

When "SET" in the [SET NORTH] menu item changes to "ON", the starting point (0 degrees) setting completes.

PAN/TILT SET	TING
PRESET POSITION PROPORTIONAL FREEZE SET NORTH TILT LIMIT	SET ↓ ON OFE OFF
PRESET MENU	OFF BACK

Available settings:

- OFF: Does not set the starting point angle information.
- ON: Sets the starting point angle information.
- SET: Setting operation is in progress. Determine the camera's orientation, then press the [ENTER] button. This completes the setting and "SET" changes to "ON".
- After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

The camera rotates clockwise. North is regarded as 0 degrees. For example, 90 degrees represent east.

• To display the camera's angle information, set [DIRECTION] in the DISPLAY screen under the INFORMATION screen to "ON".

E Limiting the tilting angle (TILT LIMIT)

When the tilting limit angle is not explicitly specified, the limit of tilting is -5 degrees to horizontal 0 degrees. If necessary, you can select the tilting limit angle using the following procedure. By setting the limit angle, the camera cannot be oriented to the direction beyond the limit angle.

1	

Use the joystick lever $(\uparrow\downarrow)$ to select [TILT LIMIT] and use the lever $(\leftarrow\rightarrow)$ to select the tilting limit angle.

PAN/TILT SET	TING
PRESET POSITION PROPORTIONAL FREEZE SET NORTH TILT LIMIT	SET ↓ ON OFF OFF
PRESET MENU	OFF BACK

Available settings:

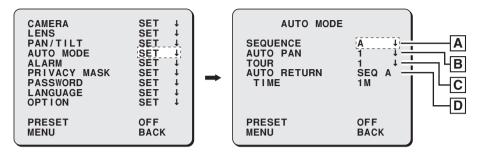
- OFF: Disables the TILT LIMIT function.
- -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22: Sets the selected value as the tilting limit angle.
- MANU: Sets the tilting limit angle manually. (While "MANU" is selected, pressing the [ENTER] button displays the setting screen. Monitoring the live image, use the joystick lever to determine the tilting limit angle, then press the [ENTER] button.)

There is a parting line around zero degree position on the dome cover. Depending on the setting of tilting limit angle, the parting line may come into the camera's view and could adversely affect the focusing behavior.

■ After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

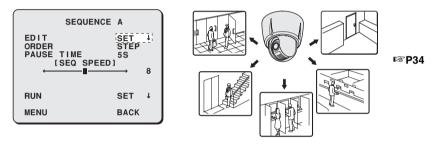
Auto Mode Settings (AUTO MODE)

The Auto mode can be used to operate the camera automatically to monitor multiple surveillance locations. There are three types of automatic panning available in Auto mode: Sequence mode (SEQUENCE), Tour mode (TOUR) and Auto Pan mode (AUTO PAN).



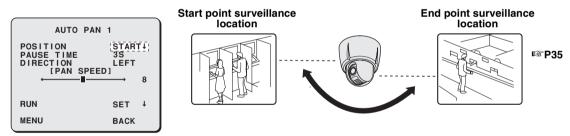
A Monitoring multiple preset positions sequentially (SEQUENCE)

The Sequence mode allows you to monitor multiple preset positions sequentially by using the sequence group containing preset positions.



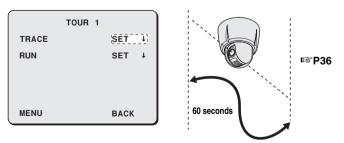
B Panning between two surveillance locations in loop (AUTO PAN)

The Auto Pan mode allows you to pan between two surveillance locations in loop. In this mode, you set a start point, an end point, moving speed, panning direction and other options.



C Repeating a recorded monitoring process (TOUR)

You can repeat a monitoring process by recording an image track of all camera pan, tilt and zoom operations.



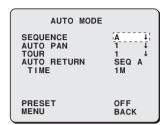
D Returning automatically to the specified surveillance mode (AUTO RETURN)

You can automatically return the surveillance status to the specified surveillance mode after the specified duration has passed without any operations. (P37)

Auto Mode Settings (AUTO MODE)

Monitoring multiple preset positions sequentially (SEQUENCE)

The Sequence mode allows you to monitor multiple preset positions sequentially by using the sequence group containing preset positions. You can create up to four sequence groups.





Create a sequence group by adding preset positions.

The preset positions you want to monitor in the Sequence mode should be added to the same group.

2 Use the joystick lever (↑↓) to select [SEQUENCE], use the lever (↔) to select a group (A to D) to monitor in the Sequence mode, and press the [ENTER] button.

The SEQUENCE screen appears.

SEQUEN	ICE A	
EDIT ORDER PAUSE TIME [SEQ SPE	SET STEP 5S	1
		8
BUN	SET	т
non	0L1	•
MENU	BACK	

To review the surveillance locations, use the joystick lever (↑↓) to select [EDIT] – "SET ↓", and press the [ENTER] button.

The preset map screen appears.

ESET N	0.SELE	ст
11:-	21:-	31:-
12:-	22:-	32:-
14:-	24:-	34:-
		35:-
		36:-
		37:-
		38:-
		39:-
		40:-
20		ACK
	Б	ACK
	11:- 12:- 13:-	12:- 22:- 13:- 23:- 14:- 24:- 15:- 25:- 16:- 26:- 17:- 27:- 18:- 28:- 19:- 29:- 20:- 30:-

Confirm the sequence group indication for each preset number, and edit the group if necessary.

Use the joystick lever (1) to select [MENU], and with "BACK" displayed, press the [ENTER] button. The SEQUENCE screen in step 2 above appears again.

- Use the joystick lever $(\uparrow\downarrow)$ to select [ORDER] and 4 use the lever (\leftrightarrow) to select the sequence option. Available settings: • STEP: Monitors the preset positions in the order of their numbers. • RANDOM: Monitors the preset positions in the sequence group randomly. Use the joystick lever (↑↓) to select [PAUSE TIME] 5 and use the lever $(\leftarrow \rightarrow)$ to select the duration for which the camera pauses at each preset position. Available settings: 3S, 4S, 5S, 6S, 7S, 8S, 9S, 10S, 15S, 20S, 30S, 45S, 1M, PRE (S: Second, M: Minute) When selecting "PRE", the pause duration set in the [PAUSE TIME] setting for each preset position is applied. Use the joystick lever (1) to select [SEQ SPEED] 6 and use the lever $(\leftarrow \rightarrow)$ to select the speed in which
 - and use the lever (←→) to select the speed in which the camera moves between individual preset positions.

Available settings: 1 (slow) - 15 (fast)



Use the joystick lever $(\uparrow\downarrow)$ to select [RUN] – "SET \downarrow ", and press the [ENTER] button.

The on-screen menu disappears, and the Sequence mode operation starts.

Pressing the [ENTER] button stops the operation.

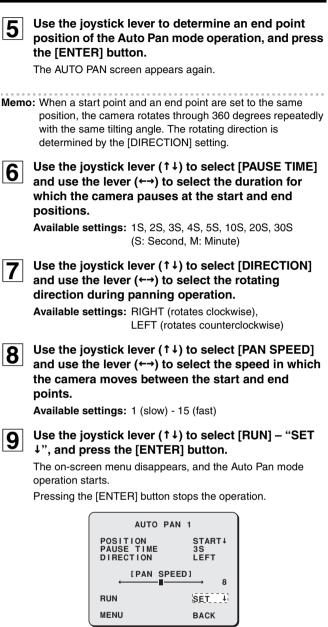
SEQUENCE A		
EDIT ORDER PAUSE TIME [SEQ SPEE	SET ↓ STEP 5S ED]	
	→ 8	
RUN	SET ↓	
MENU	BACK	

Memo: While monitoring in the normal screen, the Auto mode is turned on or off in the main screen of the system controller. For details, refer to the system controller instruction manual.

Auto Mode Settings (AUTO MODE)

5 Panning between two surveillance locations in loop (AUTO PAN) The Auto Pan mode allows you to pan between two surveillance locations in loop. In this mode, you set a start point, an end point, moving speed, panning direction and other options. You can create up to four Auto Pan groups. AUTO MODE SEQUENCE AUTO PAN 6 AUTO RETURN SEQ A ŤÍME Use the joystick lever (1 +) to select [AUTO PAN], use the lever $(\leftarrow \rightarrow)$ to select an Auto Pan group number (1 - 4), and press the [ENTER] button. The AUTO PAN screen appears. AUTO PAN 1 POSITION PAUSE TIME DIRECTION START LEFT [PAN SPEED] 8 RUN SET Use the joystick lever $(\uparrow\downarrow)$ to select [POSITION]. use the lever (\leftrightarrow) to select "START \downarrow " (start point), and press the [ENTER] button. 9 The START SETTING screen appears. START SETTING SET Use the joystick lever to determine a start point 3 position of the Auto Pan mode operation, and press the [ENTER] button. The AUTO PAN screen appears again. Use the lever ($\leftarrow \rightarrow$) to select "END \downarrow " (end point), and press the [ENTER] button. The END SETTING screen appears. SET

SET



Memo: While monitoring in the normal screen, the Auto mode is turned on or off in the main screen of the system controller. For details, refer to the system controller instruction manual.

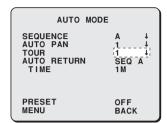
While the camera operates in the Auto Pan mode, the auto focus function is disabled. In this case, the focusing mode is switched to the manual focus mode and the focus is fixed to the position set in the START SETTING screen.

However, when the panning speed is very slow or the camera pauses at the start/end point for five seconds or longer, the auto focus function is activated.

Auto Mode Settings (AUTO MODE)

C Repeating a recorded monitoring process (TOUR)

You can repeat a monitoring process by recording an image track of all camera pan, tilt and zoom operations. You can create up to four image tracks.



Use the joystick lever (↑↓) to select [TOUR], use the lever (↔) to select a number assigned to image track (1 - 4), and press the [ENTER] button.

The TOUR screen appears.

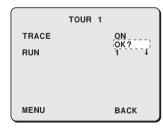
(TOUR 1	
TRACE		SET 1
RUN		SET ↓
MENU		ВАСК

2 Use the joystick lever (↑↓) to select [TRACE] – "SET ↓", and press the [ENTER] button.

"OK?" appears under "SET ↓".

3 Use the joystick lever $(\uparrow\downarrow)$ to select "OK?", and press the [ENTER] button.

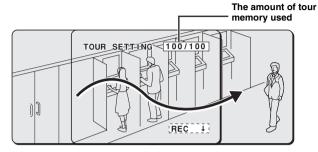
The TOUR SETTING screen appears.





Record an image track or operation commands.

Performing any operation starts recording. Every camera operation including panning, tilting and command operation will be recorded in sequence as tour memory.



Recordable operations/commands:

panning, tilting, move to preset position (PRESET GO), zooming, one-push auto focus

Memo: The used amount of tour memory is displayed in the screen. The memory usage display starts from "0/100" and ends at "100/100" representing the memory is full.



After the operations to be recorded complete, press the [ENTER] button.

The operations performed are recorded as tour memory, and the TOUR screen appears again.

If the memory becomes full, the recording stops automatically at that moment.



Use the joystick lever $(\uparrow\downarrow)$ to select [RUN] – "SET \downarrow ", and press the [ENTER] button.

The on-screen menu disappears, and the operation recorded in the tour memory will be repeated.

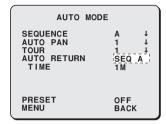
Pressing the [ENTER] button stops the operation.

	TOUR 1	
TRACE		SET ↓
RUN		SET 4
MENU		ВАСК

Memo: While monitoring in the normal screen, the Auto mode is turned on or off in the main screen of the system controller. For details, refer to the system controller instruction manual.

Returning automatically to the D specified surveillance mode (AUTO RETURN)

You can automatically return the surveillance status to the specified surveillance mode after the specified duration has passed without any operations.



Use the joystick lever (↑↓) to select [AUTO RETURN] and use the lever (↔→) to select the surveillance mode to return to automatically.

Available settings:

1

- **OFF:** Disables the AUTO RETURN function.
- SEQ A D: Sequence mode (A D)
- **PAN 1 4:** Auto Pan mode (1 4)
- TOUR 1 4: Tour mode (1 4)
- PRESET: Preset position (1 127)
- 2 When you select "PRESET" in step 1, use the joystick lever (↓) to select [PRESET-], and use the lever (↔) to select a preset number.

The preset number selection field is displayed only when "PRESET" is selected.

Αυτο Ι	MODE
SEQUENCE AUTO PAN TOUR AUTO RETURN TIME PRI	A ↓ 1 ↓ PRESET 1M ESET 1
PRESET	OFF BACK

Available settings: 1 - 127



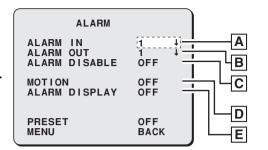
Use the joystick lever $(\uparrow\downarrow)$ to select [TIME] and use the lever $(\leftarrow\rightarrow)$ to select the duration until the AUTO RETURN function is activated.

Available settings: 10S, 20S, 30S, 40S, 50S, 1M, 2M, 3M, 4M, 5M, 6M, 7M, 8M, 9M, 10M (S: Second, M: Minute)

Alarm Settings (ALARM)

This section describes the alarm input/output setting for the camera.

CAMERA LENS PAN/TILT	SET ↓ SET ↓ SET ↓	
AUTO MODE ALARM PRIVACY MASK PASSWORD LANGUAGE OPTION	SET ↓ SET ↓ SET ↓ SET ↓ SET ↓ SET ↓	-
PRESET MENU	OFF BACK	



A Setting the alarm input (ALARM IN)

The ALARM IN screen allows you to perform the alarm settings (input preferences, alarm action, etc.) for each alarm input number.

ALARM IN 1 POLARITY ACTION RETURN MOTION ALARM ALARM OUT LINE OUT DURATION	NO PRESET ON OFF OFF 5S	IS P39
PRESET MENU	OFF BACK	

Setting the motion sensor (MOTION)

Performs settings for the motion sensor used for detecting alarm.

D

Ξ

MOTION AREA 1 AREA 2 AREA 3 AREA 4 SENSITIVITY ALARM OUT LINE OUT DURATION	ZONE OFF OFF OFF SET ↓ OFF OFF 5S	ı≊P41
PRESET MENU	OFF BACK	

B Setting the alarm output (ALARM OUT)

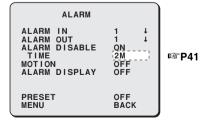
The ALARM OUT screen allows you to perform the alarm output settings for each alarm output number.





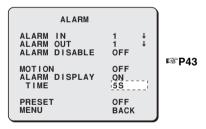
Setting the alarm disabling duration (ALARM DISABLE)

The Alarm Disable function allows you to disable the alarm for the duration after the camera is operated manually.



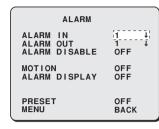
Setting the alarm information display (ALARM DISPLAY)

When the alarm is detected, the preset number and the camera ID on the screen flash notifying that the alarm is detected.



A Setting the alarm input (ALARM IN)

The ALARM IN screen allows you to perform the alarm settings (input preferences, alarm action, etc.) for each alarm input number.



Use the joystick lever $(\uparrow\downarrow)$ to select [ALARM IN], use the lever $(\leftarrow \rightarrow)$ to select an alarm input number (1 - 8), and press the [ENTER] button.

The ALARM IN screen appears.

ALARM IN 1 POLARITY NO ACTION PRESET RETURN ON
MOTION ALARM OR ALARM OUT OFF LINE OUT OFF DURATION 5S

Use the joystick lever (↑↓) to select [POLARITY] and use the lever $(\leftarrow \rightarrow)$ to select the polarity for the alarm input signal.

Available settings:

- NO (Normal Open):
- Normally open so closed condition is detected as input. NC (Normal Close):

Normally closed so open condition is detected as input.

Use the joystick lever (11) to select [ACTION] and use the lever $(\leftarrow \rightarrow)$ to select the action after the alarm is detected (alarm action).

Available settings:

•

3

• PRESET: When the alarm is detected, the camera moves to the preset position whose preset number is the same as the alarm input number.

Before using the "PRESET" option, set the preset position for the corresponding alarm input number.

- SEQ A D: Starts the Sequence mode operation (A D).
- PAN 1 4: Starts the Auto Pan mode operation (1 4).
- TOUR 1 4: Starts the Tour mode operation (1 4).
- OFF: Does not perform the alarm action.

Use the joystick lever (14) to select [RETURN] and 4 use the lever $(\leftarrow \rightarrow)$ to select the operation after the alarm action.

Available settings:

- OFF: Does not return to the operation status before the alarm
- ON: Returns to the operation status before the alarm.

Memo: • When [RETURN] is set to "ON", the camera returns to the before-alarm status after the duration specified in the [DURATION] setting.

• If another alarm input is received during the time specified in the [DURATION] setting, the operation will be performed according to the last alarm.

5

Use the joystick lever (1 +) to select [MOTION ALARM] and use the lever $(\leftarrow \rightarrow)$ to select how the motion sensor is used.

For alarm detection criteria, the motion sensor built into the camera can be used in combination with the alarm input from an external device.

Available settings:

- AND: When both the motion sensor and the external device detect an alarm condition, the alarm is activated
- OB: When either the motion sensor or the external device detects an alarm condition, the alarm is activated.

Before enabling the settings under [MOTION], be sure to set [MOTION] in the ALARM screen to "PRESET".

6

Use the joystick lever (↑↓) to select [ALARM OUT] and use the lever $(\leftarrow \rightarrow)$ to select an alarm output terminal.

The alarm signal can be output from the alarm output terminal, enabling you to connect external devices such as recorder, alarm buzzer and warning lamp.

Available settings:

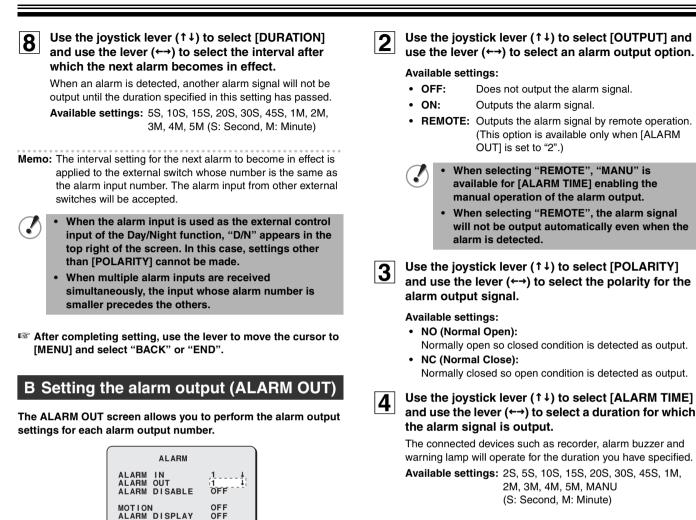
- OFF: Does not output the alarm signal.
- 1: Uses the output terminal 1.
- Uses the output terminal 2. ٠ 2:

Use the joystick lever $(\uparrow\downarrow)$ to select [LINE OUT] and use the lever $(\leftarrow \rightarrow)$ to determine whether the alarm signal is output to the connection line to the system controller.

Available settings:

- OFF: Does not output the alarm signal to the connection line
- ON: Outputs the alarm signal to the connection line.

Alarm Settings (ALARM)



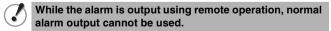
Memo: "MANU" appears only when "REMOTE" is selected for [OUTPUT] in step 2.

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

The alarm output duration for remote operation
--

The alarm output duration when using remote operation depends on the setting for [ALARM TIME].

- When selecting the value between "2S" and "5M": Outputs the alarm for the duration you have specified.
- When selecting "MANU": Controls the alarm output duration by the AUX6 operation (ON/OFF) from external device.



The ALARM OUT screen appears.

Use the joystick lever $(\uparrow\downarrow)$ to select [ALARM OUT],

use the lever (←→) to select an alarm output number

OFF BACK

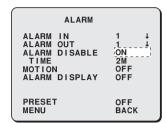
PRESET OFF MENU BACK

PRESET MENU

(1-2), and press the [ENTER] button.

、Setting the alarm disabling duration (ALARM DISABLE)

The Alarm Disable function allows the alarm input to be ignored for the specified duration during manual pan/tilt/zoom operations and after manual operation.



Use the joystick lever $(\uparrow\downarrow)$ to select [ALARM DISABLE], use the lever (\leftrightarrow) to select "ON/OFF", and press the [ENTER] button.

Available settings:

.

1

- OFF: Disables the Alarm Disable function.
- ON: Enables the Alarm Disable function. ([TIME] appears under [ALARM DISABLE].)

The Alarm Disable function can also be turned on or off through the AUX8 connection.

When "ON" is selected, use the joystick lever (↑↓) to select [TIME] and use the lever (←→) to select a duration for which the alarm input is ignored. Available settings: 1M, 2M, 3M, 4M, 5M, 6M, 7M, 8M, 9M,

10M (M: Minute)

^{ISS} After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

D Setting the motion sensor (MOTION)

The built-in motion sensor can be used to detect movements in the target object such as an intruder.

ALARM	
ALARM IN	1 ↓
ALARM OUT	1 ↓
ALARM DISABLE	OFF
MOTION ALARM DISPLAY	OFF
PRESET	OFF
MENU	BACK

Use the joystick lever $(\uparrow\downarrow)$ to select [MOTION] and use the lever $(\leftarrow \rightarrow)$ to select the motion sensor used for alarm detection.

Available settings:

- OFF: Does not use the motion sensor.
- ZONE: Uses the sensor specified for the motion zone. (The MOTION ZONE screen appears.)
- **PRESET:** Uses the motion sensor selected in [MOTION] of the [CAMERA VIEW] settings.

Memo: For the "PRESET" option, the movement is detected only at the preset position: for the [ZONE] option, the movement is detected for the area specified from whole space where pan/tilt operations can be performed.

Setting the motion zone

The Motion Zone function allows you to specify up to four surveillance areas (AREA 1 - 4) to detect movement.

Setting the surveillance area (AREA) and the detection option

To set the surveillance area and the detection option, perform the following procedure in the MOTION ZONE screen.



Use the joystick lever (↑↓) to select [MOTION], use the lever (↔) to select "ZONE", and press the [ENTER] button.

The MOTION ZONE screen appears.

2

Use the joystick lever $(\uparrow\downarrow)$ to select [AREA (1 - 4)], use the lever (\leftrightarrow) to select "ON \downarrow ", and press the [ENTER] button.

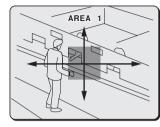
The AREA setting menu appears.

AREA 1	
POSITION	SET ↓
DISPLAY	OFF



Use the joystick lever $(\uparrow\downarrow)$ to select [POSITION] – "SET \downarrow ", and press the [ENTER] button.

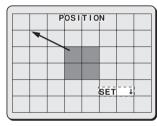
The AREA screen for setting surveillance area appears. In this screen, while panning or tilting the camera, set the surveillance area to detect movement.





Use the joystick lever to perform panning or tilting, and press the [ENTER] button.

The POSITION screen appears displaying the detection pattern (in smallest size) in the center of the screen. In this screen, determine the position of the detection pattern.

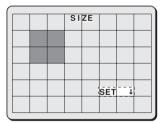


5

Use the joystick lever to move the detection pattern to your desired position, and press the [ENTER] button.

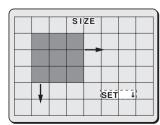
Move the detection pattern so that the pattern is located at the top left corner of the surveillance area.

Pressing the [ENTER] button displays the SIZE screen. In this screen, determine the size of the detection pattern.



6 Use the joystick lever to adjust the size of the detection pattern, and press the [ENTER] button.

Originating from the position of the detection pattern specified in the POSITION screen, the joystick lever (\downarrow) expands the pattern downward and the lever (\rightarrow) expands the pattern to the right.



After pressing the [ENTER] button, the AREA setting menu appears again.

7

Use the joystick lever ($\uparrow \downarrow$) to select [DISPLAY] and use the lever ($\leftarrow \rightarrow$) to select "ON/OFF".

Select whether the surveillance area specified in the AREA screen is displayed on the monitor screen or not.

Available settings:

- OFF: Does not display the surveillance area.
- ON: Displays the surveillance area.



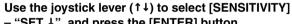
To continue setting other surveillance area (2 - 4):

After returning to the MOTION ZONE screen, repeat the same procedure (Steps 2 to 7).

Setting the detection sensitivity

You can set the level of sensitivity for motion detection. Adjusting the level of sensitivity avoids unwanted detection.

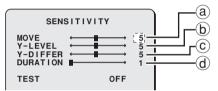
To set the detection sensitivity, perform the following procedure in the MOTION ZONE screen.



– "SET \downarrow ", and press the [ENTER] button.

The SENSITIVITY screen appears.

Set the detection level for the following parameters. For all parameters, the larger the value, the lower the sensitivity.



- Motion sensitivity (MOVE): 1 10 To avoid detection of small movements, make the value larger.
- Brightness level (Y-LEVEL): 1 10
 When noise from a dark screen is causing erroneous detections, make the value larger.
- Brightness differences (Y-DIFFER): 1 10 To avoid detection of lights turning on and off, make the value larger.
- @ Duration (DURATION): 1 60 To avoid detection of fast movements, make the value larger.
- 2

To test the sensitivity settings, use the joystick lever $(\uparrow\downarrow)$ to select [TEST] and use the lever (\leftrightarrow) to select a surveillance area number (1 - 4).

You can test the detection sensitivity for the specified surveillance area.

When a motion is detected, patterns are shown in that location. Adjust the setting values as necessary.

Setting the alarm signal output

Set the alarm output options for the alarm detection in the surveillance area (AREA 1 - 4).

After returning to the MOTION ZONE screen, perform the following procedure.

MOTION AREA 1 AREA 2 AREA 3 AREA 4 SENSITIVITY ALARM OUT LINE OUT DURATION	ZONE OFF OFF OFF SET
PRESET MENU	OFF BACK

1

Use the joystick lever $(\uparrow\downarrow)$ to select [ALARM OUT] and use the lever (\leftrightarrow) to select an alarm output terminal.

Available settings:

- **OFF:** Does not output the alarm signal.
- 1: Uses the output terminal 1.
- 2: Uses the output terminal 2.

Use the joystick lever (↑↓) to select [LINE OUT] and use the lever (↔) to determine whether the alarm signal is output to the connection line with the system controller.

Available settings:

- **OFF:** Does not output the alarm signal to the connection line.
- ON: Outputs the alarm signal to the connection line.

3 Use the joystick lever (↑↓) to select [DURATION] and use the lever (↔) to select the interval after which the next alarm becomes in effect.

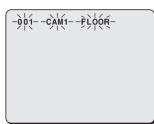
Available settings: 5S, 10S, 15S, 20S, 30S, 45S, 1M, 2M, 3M, 4M, 5M (S: Second, M: Minute)

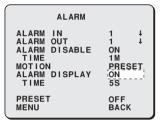
After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

E Setting the alarm information display (ALARM DISPLAY)

When the alarm is detected, the preset number and the camera ID on the screen flash notifying that the alarm is detected.

Monitor display legend





Use the joystick lever $(\uparrow\downarrow)$ to select [ALARM DISPLAY] and use the lever $(\leftarrow\rightarrow)$ to select "ON/OFF".

Available settings:

- **OFF:** The alarm information does not flash.
- **ON:** The alarm information flashes. ([TIME] appears under [ALARM DISPLAY].)

2 When "ON" is selected, use the joystick lever (↑↓) to select [TIME], and use the lever (←→) to select the duration for which the alarm information is flashing.

Available settings: 5S, 10S, 15S, 20S, 30S, 45S, 1M, 2M, 3M, 4M, 5M (S: Second, M: Minute)

Privacy Mask Settings (PRIVACY MASK)

Depending on the target object, a certain part of the surveillance image may need to be protected for privacy. You can use the privacy mask (gray) to cover such part for privacy. Up to 24 privacy masks can be set.

SET	t
SET	Ļ
SET	Ţ
SET	Ī
SET	Ļ
SET	Ļ
	SET SET SET SET SET SET SET

1

Use the joystick lever (↑↓) to select [PRIVACY MASK] – "SET ↓", and press the [ENTER] button. The MASK NO.SELECT screen appears.

MASK 1 MASK 2 MASK 3 MASK 4 MASK 5 MASK 6 MASK 7 MASK 8	NO.SELECT OFF OFF OFF OFF OFF OFF OFF
PRESET MENU	OFF BACK

2

Use the joystick lever $(\uparrow\downarrow)$ to select a privacy mask number (1 - 24), use the lever ($\leftarrow\rightarrow$) to select "SET \downarrow ", and press the [ENTER] button.

The POSITION screen appears and the mask pattern is displayed at the center of the screen.

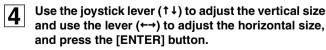


3 Use the joystick lever to move the surveillance image to determine the masking position, and press the [ENTER] button.

The SIZE screen appears.



Memo: While the lens reaches the tilt end (TILT LIMIT to "OFF"), pressing the [ENTER] button fixes the surveillance image. Use the joystick lever to move the mask pattern to determine the masking position, and press the [ENTER] button.



The TEST screen appears. You can confirm how the mask pattern is set by using the joystick lever to move the surveillance location.

MASK	1 SET	
ſΤ	EST]	

Press the [ENTER] button.

5

This completes the privacy mask setting and the MASK NO.SELECT screen appears again. Make sure that the [MASK] setting is set to "ON".

To continue setting other privacy masks, repeat steps 2 to 4.

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Turning on or off the privacy mask

After the privacy mask is set, the mask can be turned on or off as necessary.

Use the joystick lever $(\uparrow\downarrow)$ to select the mask number and use the lever (\leftrightarrow) to select "ON/OFF".

)	
MASK	NO.SELECT	
MASK 1	OFF 4	→ ON
MASK 2	OFF	
MASK 3	ÓFF	
MASK 4	OFF	

Turning the MASK NO.SELECT screen page

Up to 24 privacy masks can be set and the MASK NO.SELECT screen is divided into three pages. To turn the page, use the joystick lever to move the cursor to the page switching buttons, use the lever (\leftrightarrow) to select the advance or reverse button, and press the [ENTER] button.

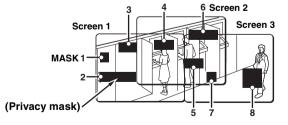
To the previous page

►►►: To the next page

MASK 7	OFF	Page
MASK 8	OFF	switching
PRESET	OFF BACK	buttons

The maximum number of privacy masks

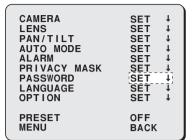
You can set up to 24 privacy masks in total, and up to 4 privacy masks can be set per screen.



If you set more than four privacy masks per screen, "**>4!!" appears to the right of the screen title and the privacy mask with the largest setting number will be deleted.

Password Settings (PASSWORD)

Password can be used to limit the menu setting operations to specific users.



Enabling password lock

When the password lock is enabled, users are prompted to enter password to display the menu screens. Set the password by displaying the PASSWORD screen under the respective menus.

Memo: Different passwords can be specified for the main menu and the advanced menu respectively.

Г	-	
I		
L		
I		

Use the joystick lever (↑↓) to select [PASSWORD] -"SET ↓", and press the [ENTER] button.

The PASSWORD screen appears.

P/	ASSWORD	
PASSWORD PASSWORD	LOCK CHANGE	OFF ↓ SET ↓
MENU		BACK

2

Use the joystick lever (1) to select [PASSWORD LOCK] – "OFF ↓", and press the [ENTER] button. The screen for entering the password appears.

	PASSWORD		
	(j)***	SET	t
MENU		BACK	

3

Use the joystick lever $(\leftarrow \rightarrow)$ to select the digit and use the lever $(\uparrow\downarrow)$ to select a number.

When setting the password first time, use the factory setting value (1234).



After entering your four-digit password, press [ENTER].

When the valid password is entered, "OK" appears under the password entry field and the password lock is enabled.

	PASSWORD)	
	1234 [<u>OK</u>]	SET	ţ
MENU		BACK	



If an invalid password is entered, "NG" appears and the cursor moves to "BACK".

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

Disabling password lock



3

Use the joystick lever (11) to select [PASSWORD] -"SET ↓", and press the [ENTER] button. The PASSWORD screen appears.

2

Use the joystick lever (1 +) to select [PASSWORD LOCK] – "ON ↓", and press the [ENTER] button. The screen for entering the password appears.

Use the joystick lever to enter the password into the entry field, and press [ENTER].

"OK" appears under the entry field and the password lock is disabled.

Password Settings (PASSWORD)

Changing the password

Use the joystick lever (↑↓) to select [PASSWORD] – "SET ↓", and press the [ENTER] button. The PASSWORD screen appears.

Use the joystick lever ($\uparrow \downarrow$) to select [PASSWORD CHANGE] – "SET \downarrow ", and press the [ENTER]

button.

The screen for changing the password appears.

PASSWORD			
<now< th=""><th>PASSWO</th><th>RD></th><th></th></now<>	PASSWO	RD>	
	***	SET	t
MENU		BACK	



1

2

Use the joystick lever to enter current password into the NOW PASSWORD field, and press [ENTER].

If the password currently used is authenticated, the NEW PASSWORD field appears.

P	PASSWORD		
<new< th=""><th>PASSWO</th><th>RD></th><th></th></new<>	PASSWO	RD>	
	<u> </u> * * * *	SET	t
MENU		BACK	

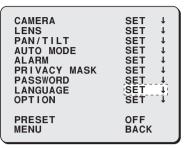


Use the joystick lever to enter new password into the NEW PASSWORD field, and press [ENTER].

"OK" appears under the NEW PASSWORD field and the new password is set.

Language Settings (LANGUAGE)

Performs language settings for display. The initial setting is English.



Use the joystick lever (↑↓) to select [LANGUAGE] – "SET ↓", and press the [ENTER] button.

The LANGUAGE screen appears.

LANGUAGE		
LANGUAGE LANGUE SPRACHE	ENGLISH FRENCH GERMAN	
MENU	BACK	

2 Use the joystick lever $(\uparrow\downarrow)$ to select the language used for display and press the [ENTER] button.

The display changes to the selected language. **English**

ıy	1151	

LANGUAGE			
LANGUAGE LANGUE Sprache	ENGLISH FRENCH GERMAN		
MENU	BACK		

French

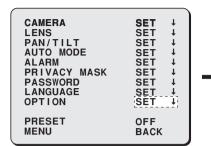
LANG	JE
LANGUAGE LANGUE SPRACHE	ANGLAIS FRANCAIS ALLEMAND
MENU	RETOUR

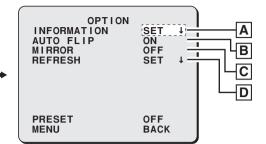
German

1	SPRA	CHE
	LANGUAGE LANGUE SPRACHE	ENGLISCH FRANZ DEUTSCH
	MENUE	ZURUECK

Miscellaneous Settings (OPTION)

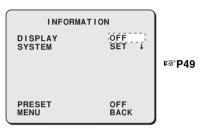
The OPTION menu is used to perform miscellaneous settings for the camera.





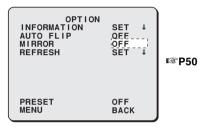
A Setting the display information (INFORMATION)

Sets the type and position of the information displayed on the monitor.



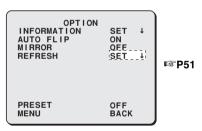
C Setting the mirroring function (MIRROR)

Reverses the displayed image electronically.



D Performing the refresh function (REFRESH)

Cleans the camera's horizontal rotation contact area.

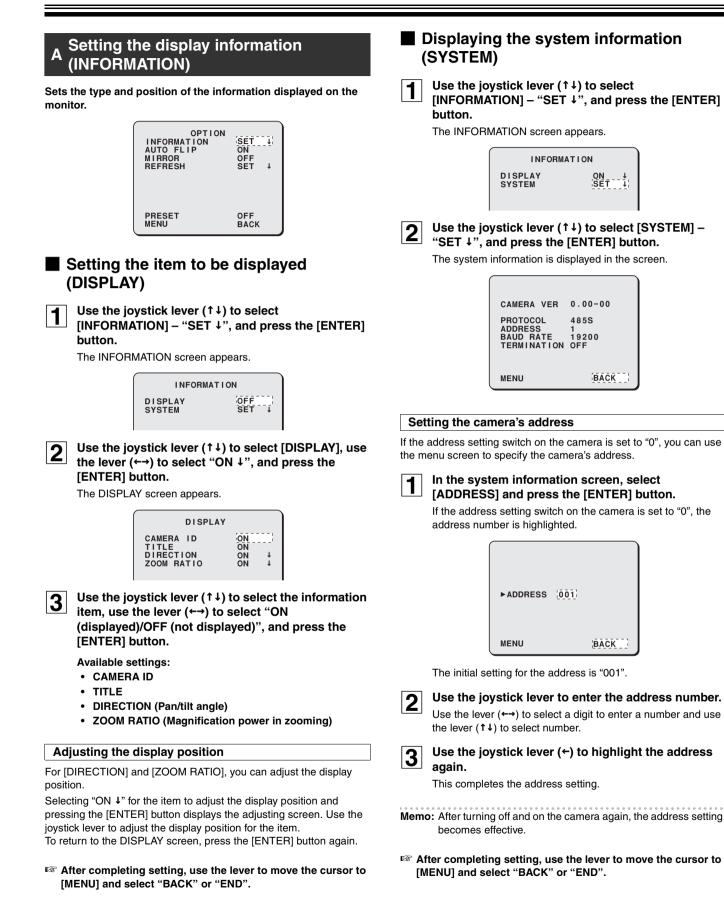


B Setting the auto flip function (AUTO FLIP)

Rotates the displayed image up or down, left or right electronically when the camera tilts beyond the straight down position.

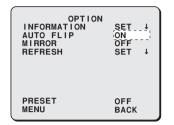


Miscellaneous Settings (OPTION)



B Setting the auto flip function (AUTO FLIP)

Rotates the displayed image up or down, left or right electronically when the camera tilts beyond the straight down position.

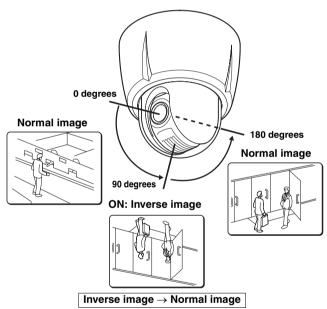


Use the joystick lever (↑↓) to select [AUTO FLIP] and use the lever (↔) to select "ON".

Available settings:

1

- **OFF:** Disables the Auto Flip function. (When the tilting angle reaches 90 degrees, the camera stops.)
- **ON:** Enables the Auto Flip function, allowing you to continue monitoring when the camera is tilted beyond the straight down position.



The image is rotated automatically to change inverse image to normal image.

The timing with which the image is rotated is when the camera pauses after it tilts beyond the straight down position and when the camera pauses after the tilting operation reaches the opposite end (180 degrees).

After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".

C Setting the mirroring function (MIRROR)

Reverses the displayed image electronically. This function can be used when the camera is installed upside down or when performing surveillance through a mirror.

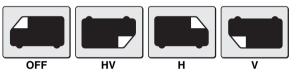
OPTION INFORMATION AUTO FLIP MIRROR REFRESH	SET ↓ ON OFF SET ↓
PRESET	OFF
MENU	BACK



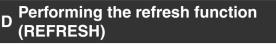
1 Use the joystick lever $(\uparrow\downarrow)$ to select [MIRROR] and use the lever $(\leftarrow\rightarrow)$ to select a mirroring mode.

Available settings:

- OFF: Normal image
- HV: Rotated horizontally and vertically.
- H: Rotated horizontally.
- V: Rotated vertically.



- Memo: The "HV" option can be used when the camera is installed on the floor. In this option, the direction to which the joystick lever is moved matches the direction to which the camera pans and tilts.
- After completing setting, use the lever to move the cursor to [MENU] and select "BACK" or "END".



Cleans the camera's horizontal rotation contact area.

INFORMAT AUTO FLI MIRROR REFRESH		
PRESET MENU	OFF BACK	

1 Use the joystick lever (↑↓) to select [REFRESH] – "SET ↓", and press the [ENTER] button.

Cleaning starts, and after the cleaning completes the startup movements are performed.

Memo: The horizontal rotation contact area of the camera always moves. When the contact area becomes dirty, the camera's operation can be unstable, burst can occur, or preset positions may deviate. It is recommended to clean the rotation contact area periodically by using the Refresh function.

Specifications

1	- / A II
Image sensor	: 1/4"
Effective pixels	: 752 (H) x 582 (V)
Horizontal resolution	: Over 520 TV lines
Lens	: x30 zoom lens, f=3.5 - 105 mm (F1.4 - 3.7)
	Electronic zoom and gearing
_	Zoom speed setting possible
Electronic zoom	: 16 power (combined with optic zoom gives 480 power max)
	Max zoom magnification setting possible
	Vertical resolution ON/OFF setting
Auto focus	: AUT/ONE-PUSH/MANUAL
	AF area setting possible (3 step)
Iris control	: AUTO/MANUAL
Synchronization method	: Internal synchronization/Line lock
	V phase adjustment possible
Lowest image illumination	: 0.8 lx (F1.4, AGC gain at maximum, COLOR mode)
	0.04 lx (F1.4, B/W mode)
	0.025 lx (F1.4, x32 electronic sensitivity increased, COLOR mode)
0/11	0.00125 lx (F1.4, x32 SENSE UP, B/W mode)
S/N	: Over 50 dB
Backlight compensation	: Center-weighted average metering/multi-spot evaluative metering
Day/Night	: AUTO / COLOR / B/W settings available
Electronic shutter	: • Fast shutter speed (SHORT) mode: 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000,
	1/4000, 1/10000
Electronic consitivity beacting	• Slow shutter speed (LONG) mode: x1, x2, x4, x8, x16, x32
Electronic sensitivity boosting	: AUTO/OFF, works with auto iris Up to x32 max setting possible
White balance	
AGC gain	: ATW/AWC/MWB/3200/5600/FLUO (Fluorescent lighting) : Low/Normal/Middle/High/Off (When "OFF" is selected, manual gain adjustment is
AGC gain	
Motion sensor	available.) : ON/OFF, individual settings possible
Aperture	: H/V setting possible
Privacy masking	: ON/OFF, max of 24 masked locations (Wide view screen; 1 screen max 4 masks)
Filvacy masking	The mask can be set regardless of the camera's direction.
Alarm input/output	: External input: 8, External output: 2, NO (Normal open)/NC (Normal closed) switch
Alaiminpuboulput	Motion sensor with external alarm AND/OR output options
Camera titles	: ON/OFF, 16 characters
Camera view	: 8 settings
Auto mode	: Sequential pan/auto pan/tour (4 patterns each)
Rotation range	: Horizontal: 360° endless. Vertical: -5° - 185°
Rotation speed	: Horizontal- Preset: 435°/second. Manual: 0.1° - 120°/second
notation opecu	Vertical- Preset: 400°/second. Manual: 0.1° - 120°/second
Preset positions	: 128 positions
Communications	: Coaxial control, RS-485
Operational temperature/humidity	: -10 – 50°C/below 90% RH
Power source	: DC 24 V

External appearance and specifications subject to change without notice.



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