



High Resolution Day/Night Camera

Instruction Guide

560TVL



High Resolution Day/Night Camera

Printed in KOREA



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules & CE Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION : To prevent electric shock and risk of fire hazards:

- ◆ Do NOT use power sources other than those specified.
- ◆ Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

■ Features

Horizontal Resolution of 560 TV Lines

Clear image quality has been achieved by employing a SONY CCD with 410,000 (effective) pixels, which provides a horizontal resolution of 560 TV lines.

Filter Changeable Day & Night

This camera has a function that automatically selects the mode that is appropriate for daytime or night-time conditions. The COLOR mode operates in daytime conditions to provide optimum colors, and BW mode operates in night-time conditions to enhance the definition of the image.

Electronic IRIS

The electronic IRIS function enables continuous automatic control of the shutter between 1/60(50)–1/100,000 seconds.

PRIVACY Function

The PRIVACY function conceals the areas not required to appear on the image.

High Sensitivity

The built-in high sensitivity SONY COLOR CCD enables a clear image even at 0.3Lux (0.1Lux B/W)

VIDEO/DC Drive Lens

The video drive lens and the DC drive lens can be selected by the touch of a switch.

Programmable GAMMA Processing

Controlled by OSD Menu

The camera functions are controlled by selecting text displayed on the monitor screen.

Additional Functions

MOTION DETECTION, MIRROR, SHARPNESS and COLOR ADJUST functions are also available.

Warning ■

The camera requires periodic inspection.

Contact an authorised technician to carry out the inspection.

Stop using your camera when you find it malfunctioning.

If the camera emits smoke or is unusually hot for a long period, a fire may be caused.

Do not install the camera on a surface that can not support it.

If the camera is installed on an inappropriate surface, it may fall and cause injury.

Do not hold plug with wet hands.

It could cause an electric shock.

Do not dis-assemble the camera.

It may result in an electric shock or other hazards.

Do not use the camera close to a gas or oil leak.

It may result in a fire or other hazards.

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■ Precautions

Do not install the camera in extreme temperature conditions.



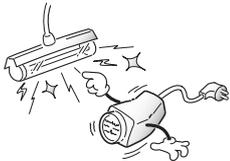
Only use the camera under conditions where temperatures are between -10°C and $+50^{\circ}\text{C}$. Be especially careful to provide ventilation when operating under high temperatures.

Do not install or use the camera in an environment where the humidity is high.



It can cause the image quality to be poor.

Do not install the camera under unstable lighting conditions.



Severe lighting change or flicker can cause the camera to work improperly.

Do not touch the front lens of the camera.



This is one of the most important parts of the camera. Be careful not to leave fingerprints on the lens cover.

Do not drop the camera or subject it to physical shocks.



It can cause malfunctions to occur.

Never keep the camera pointed directly at strong light.



It can damage the CCD.

Do not expose the camera to rain or spill beverage on it.



If it gets wet, wipe it dry immediately. Liquids can contain minerals that corrode the electronic components.

Do not expose the camera to radioactivity.



If exposed to radioactivity the CCD will fail.

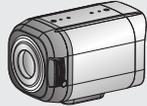


Note

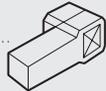
- If the camera is exposed to spotlight or object reflecting strong light, smear or blooming may occur.
- Please check that the power satisfies the normal specification before connecting the camera.

■ Components

1. COLOR BOX CAMERA



2. Auto Iris Lens Connector Plug



3. C-Mount Adapter

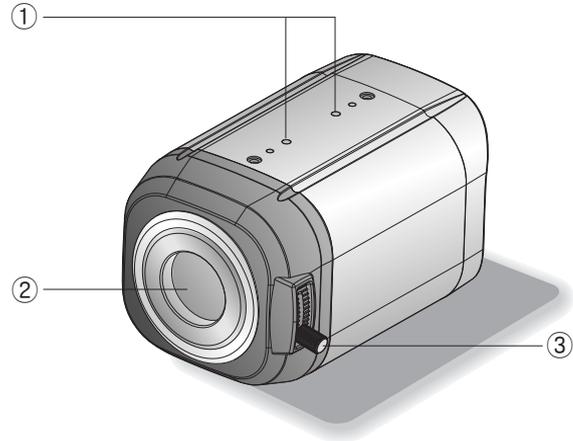


4. Instruction Manual



Names and Functions of Parts ■

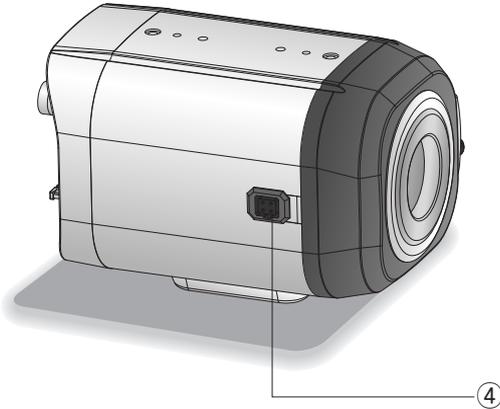
Front View



- ① **Tripod Mounting Bracket Screw Hole**
Used to fix the Tripod Mounting Bracket to the top of the camera.
- ② **C-Mount Lens Adapter**
Install this adapter to use a C-Mount Lens.
- ③ **Back Focus Control Lever**
Adjust focus by this Back Focus Lever.

Names and Functions of Parts

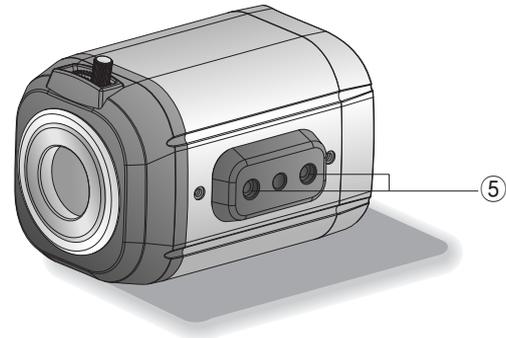
Side View



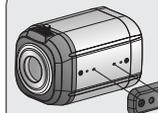
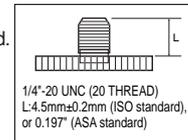
- ④ **Auto Iris Lens Connector**
Used to connect Auto Iris Lens plug.

Names and Functions of Parts

Bottom View



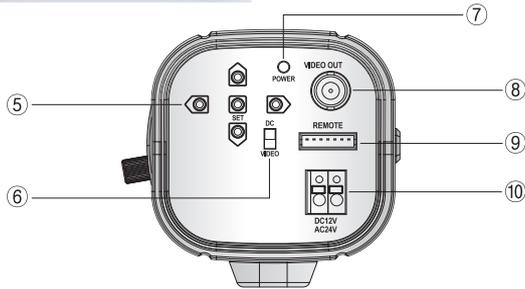
- ⑤ **Tripod Mounting Bracket Screw Hole**
Used to fix the camera on a bracket or tripod.
The screw sizes for this hole are as follows:



You can separate the Tripod Mounting Bracket and install it on the top or bottom of the camera. Make sure to use the Tripod Mounting Bracket when fixing the camera to a bracket or tripod. Otherwise the camera may not be secure, or the internal circuitry of the camera may be damaged.

Installation

Rear View



5 Function Setup Button

- **SET Button** : Displays the menu on the screen. Press this button to confirm status or after changing a selected item.
- **Up and Down Button** : Used to move the cursor up or down in the menu screen to select a desired menu item.
- **Left and Right Button** : Used to move the cursor left or right in the menu screen or to change the value of the selected item.

6 Auto iris lens selection switch

Change the mode to DC or VIDEO depending on the type of auto iris lens being used.

7 Power LED

When power is properly connected, this LED comes on.

8 Video OUT Port

Video signals are output through this port. Connect this port to the Video IN port of a monitor.

9 Remote

Connects to the remote controller(option) when you want to install remotely

10 Power IN Port

Connect the power as specified for each model here.

Installation

Lens

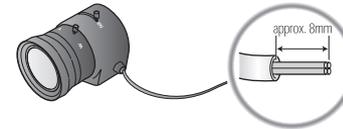
The lens is not supplied with this camera. Purchase a lens suitable for your environment. This camera accepts the auto iris lens and both C-and CS-mount lens.

Note

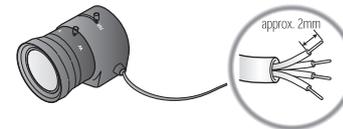
- Use of the DC auto iris lens is recommended to achieve the best results for operating this product effectively.
- Keep the lens clean.
- Any foreign objects and fingermarks on the lens can cause inferior image quality in low light level conditions.

Using the auto iris

1. Strip the insulation of the auto iris lens cable 8mm from the end.



2. Strip the insulation of the core of the auto iris lens cable to expose a 2mm length.

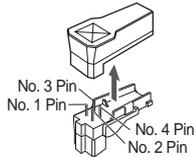


■ Installation

- Remove the cover of the auto iris lens connector plug and solder the lens cable to the connector pin of the plug.

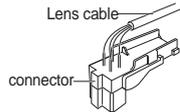
• For a Video Drive Lens

Pin 1: Red (Power)
Pin 2: NC
Pin 3: White (Video Signal)
Pin 4: Black (Ground)

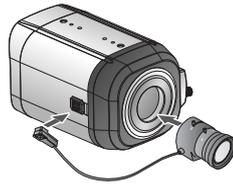


• For a DC Drive Lens

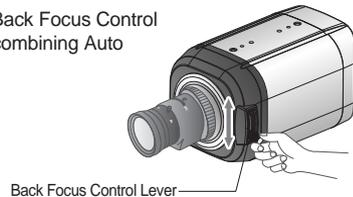
Pin 1: Damping -
Pin 2: Damping +
Pin 3: Drive +
Pin 4: Drive -



- Fit the cover of the auto iris lens connector plug, remove the protective glass cover from the front of the camera, and fasten the auto iris lens by turning it clockwise.



- Set focus of camera using Back Focus Control Lever of camera side after combining Auto Iris lens.

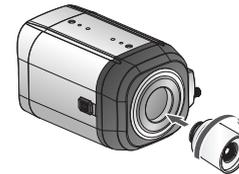


Using a C/CS mount lens

Before installing a lens, identify whether the lens to be installed is a C-Mount or CS-Mount. This camera is set for a CS-Mount Lens by default. To install a C-Mount Lens, a simple modification is required.

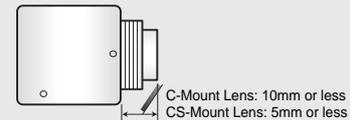
• When Using a CS Mount Lens

Remove the protective glass cover at the front of this product and turn the CSMount Lens clockwise to install it. And set focus of camera using Back Focus Control Lever of camera side after combining CS-Mount lens.



Note

- Use the lens connector shown in the following figure. If the dimensions of the connector are not correct, it may damage the camera, or the lens may not be installed firmly.

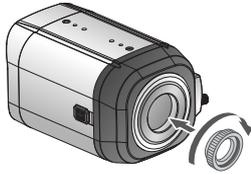


- If the lens is too heavy, the camera becomes unbalanced and there may be problems. Use a lens that weighs less than 450g.
- When adjusting the Automatic Level Control (ALC) of an auto iris lens, use Av mode if available. If you use the Pk mode, the picture brightness may change continuously.

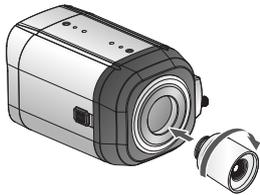
■ Installation

• When Using a C Mount Lens

1. Remove the protective glass cover at the front of this product and turn the CMount Adapter clockwise to install it.



2. Turn the C-Mount lens clockwise to install it.



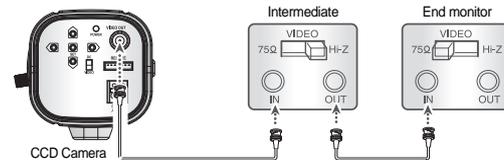
3. Set focus of camera using Back Focus Control Lever of camera side after combining C-Mount lens.

■ Connecting to a monitor

Connect the video output terminal located on the rear of the camera to the monitor.



- Since the connection procedure may differ depending on the type of monitor or peripheral device to be connected, refer to the User Manual for the device to be connected.
- Make sure to turn off the device to be connected before making any connections.
- Turn the 75Ω/Hi-Z switches of interim display devices to the Hi-Z position, and the switches of any final device to the 75Ω position.



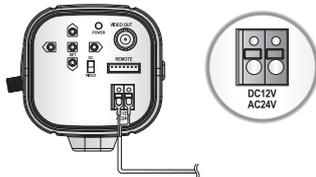
■ Installation

■ Connecting Power

Since power specifications differ depending on the model, make sure to check your model name and specifications before connecting power. You can connect power as shown in the following figure.

For AC / DC power

- Since the power specification supports both AC and DC, connect AC 24V, 500mA Adaptor or DC 12V, 500mA Adaptor.



When the resistance value of copper wire is at [20°C(68°F)]

Copper wire size(AWG)	#24(0.22mm ²)	#22(0.33mm ²)	#20(0.52mm ²)	#18(0.83mm ²)
Resistance value(/m)	0.078	0.050	0.030	0.018
Voltage drop(V/m)	0.028	0.018	0.011	0.006

- As shown in the table above, voltage decreases as the wire gets longer. Therefore use of an excessively long adaptor output line for connection to the camera may affect the performance of the camera.
- ※ Standard voltage for camera operation : DC 12V±10%, AC 24V±10%
- ※ There may be some deviation in voltage drop depending on the type of wire and the manufacturer.

Camera Operation ■

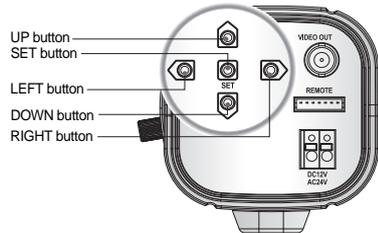
■ Menu

SETUP menu	
LENS (selection)	· MANUAL · DC/VIDEO
SHUTTER (condition and speed control)	· FIXED · AUTO · FLK
WHITE BALANCE control	· ATW · AWB · FIXED · MANUAL
BLC (Back Light Compensation)	· BLC AREA · BLC RATIO
AGC (Auto Gain control)	· AGC CONTROL
ADJUST	· CONTRAST · CAMERA ID · CB - GAIN · CR - GAIN
FUNTION	· RETURN · CAMERA ID · DAY / NIGHT · MIRROR · MITION · PRIVACY · GAMMA · LANGUAGE · RESET
EXIT	

Camera Operation

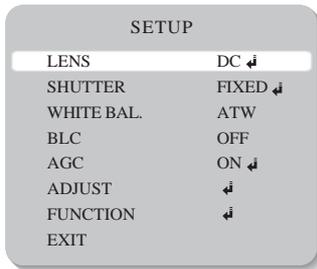
Settings

Settings can be made using the 5 buttons located on the back of the camera.



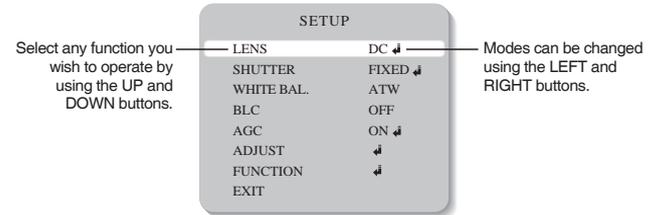
1. Press the SET button

- Settings can now be made. The SETUP menu is displayed on the monitor.



2. Select a menu item from the list available by using the UP and DOWN buttons.

- Each function can be selected by using up and down buttons.
- The Selected position is displayed in blue color.



3. Press the LEFT or RIGHT button if you wish to change mode.

- When the LEFT or RIGHT button is pressed, available values and modes are displayed in order. Please keep pressing the button until you get to the mode you wish to operate.

4. Select 'EXIT' and then press the SET button to finish the setting.



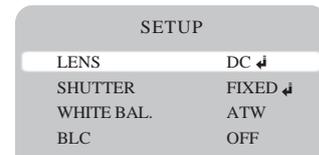
Note

- If appears at the mode selected, it means that there is a sub-menu which can be selected by pressing the SET button.
- If --- appears at the mode item, it means that there are no modes available for selection.

LENS (selection)

This function is used to adjust the brightness of the screen.

1. When the SETUP menu is displayed on the screen, position the cursor to point to 'LENS' by using the UP and DOWN buttons.
2. Select the type of the lens setting to use by pressing the LEFT or RIGHT button.



■ Camera Operation

● DC/VIDEO : Auto Iris Lens selection



Note

- When using an auto iris lens, the setting of the auto iris lens selection switch, located on the back of the camera, must be on DC or VIDEO depending on the type of the lens which is being used. (Refer to the picture on page 13)
- The brightness of the screen can be adjusted in DC mode. The brightness can be adjusted within the range of 0-255. The optimum level of brightness for the user can be achieved by adjustment.



● MANUAL : Manual Lens selection

3. Press the SET button if you wish to return to the previous menu

SHUTTER (condition and speed control)

Auto or manual control can be selected.

1. When the SETUP menu is on the screen, position the cursor to point to 'SHUTTER' by using the UP and DOWN buttons.
2. Select the shutter mode by pressing the LEFT or RIGHT button.

- **AUTO** : Auto control of the shutter speed is enabled.
When AUTO mode is on, the shutter speed is controlled automatically according to the brightness of the scene.
- **FLK** : Select 'FLK' mode when flickering occurs on the screen due to an imbalance between illumination and frequency.
NTSC Model:1/100, PAL Model: 1/120
- **FIXED** : The shutter speed can be controlled manually.
- **MANUAL mode (256 step)** :

There are 256 Pre-defined electronic shutter speed available in manual for users to choose according to surrounding environment.

SETUP	
LENS	MANUAL
SHUTTER	AUTO ↓
WHITE BAL.	ATW
BLC	OFF
AGC	ON ↓
ADJUST	↓
FUNCTION	↓
EXIT	

3. Select 'FIXED' mode for manual shutter speed adjustment.
 - Selectable speeds are from '1/60' to '1/120,000'sec (NTSC) and '1/50' to '1/120,000'sec (PAL).
4. Press the SET button when the settings are completed.

■ Camera Operation

WHITE BALANCE

The screen colours can be adjusted using the WHITE BALANCE function.

1. Move the selection (blue) to 'WHITE BAL' on the SETUP menu by using the UP and DOWN buttons.
2. Select the mode you wish to adjust by pressing the LEFT or RIGHT buttons.

SETUP	
LENS	MANUAL
SHUTTER	FIXED 
WHITE BAL.	ATW
BLC	OFF

※ Select one of the 4 modes below.

- **ATW(Auto Tracking White Balance)** : This mode can be used within the colour temperature range 1,800°K ~ 10,500°K (eg, fluorescent light, outdoor, sodium vapour lamp etc.)
- **AWB(Automatic White Balance)** : Press the SET button while the camera is directed at a piece of white paper to obtain the optimum state under current illumination. If the environment, including the light source, changes the white balance will need to be adjusted again.
- **AWB FIXED optimized at 2100°K**
MODE1 : 2680°K (Na light source)
MODE2 : 3200°K
MODE3 : 5500°K (Fluorescence light source)
MODE4 : 5100°K
※ Upon Users request, we can change the optimization setting.
- **MANUAL** : The manual adjustment mode enables finer adjustment. Select ATW or AWB first then change to manual adjustment mode and press the SET button. Set the appropriate colour temperature then increase / decrease the red and blue colour values and monitor the color changes of the object.

Note

- Under the following conditions the WHITE BALANCE function may not operate properly. In such cases, please select the AWB mode.
 - ① When the object's surroundings have a very high colour temperature (eg, a clear sky and sunset)
 - ② When the object's surroundings are dark
 - ③ If the camera directly faces a fluorescent light or is installed in a place where there are considerable changes in illumination, the WHITE BALANCE function may become unstable.

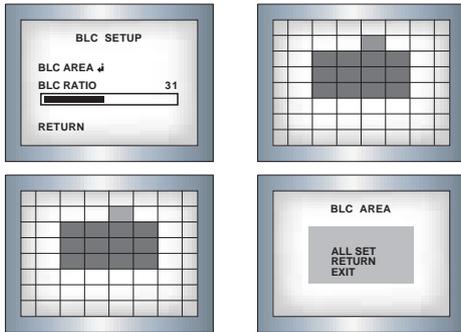
BLC (Back Light Compensation)

When there is a strong backlight behind the object, clear images of the background as well as the object can still be obtained by using the BACKLIGHT function.

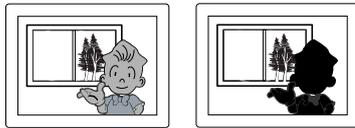
1. Move the selection(blue) to 'BLC' on the SETUP menu by using the UP and DOWN buttons.
2. Select the value required by pressing the LEFT or RIGHT button.
3. Press SET button to enter BLC AREA and BLC RATIO menu.
4. In BLC Area user can choose the area of 64 squares, where BLC can be applied.
5. Then user can adjust BLC ration(64 Steps) a higher step means a clearer image.

SETUP	
LENS	MANUAL
SHUTTER	FLK
WHITE BAL.	ATW
BLC	OFF
AGC	ON 
ADJUST	
FUNCTION	
EXIT	

Camera Operation

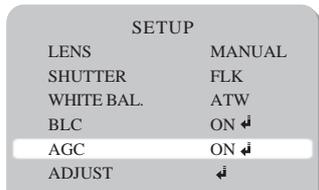


BACKLIGHT ON
BACKLIGHT OFF

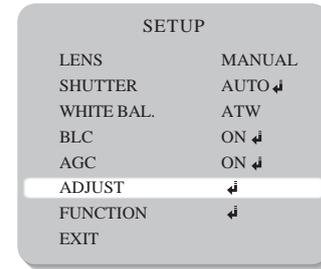


AGC (Auto Gain Control)

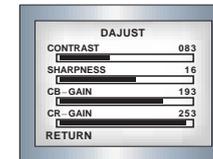
1. Position the cursor to point to 'AGC' on the SETUP menu by using the UP and DOWN buttons.
2. Select the value required by pressing the LEFT or RIGHT button. As the level of gain increases the screen gets brighter but the level of noise will also increase. (256 steps)



ADJUST



- **Contrast** : User can change contrast using left and right button. (256 steps)
- **Sharpness** : User can change sharpness using left and right button. (32 steps)
- **CB-Gain** : User can remove add more blue color on image using left and right button. (256 steps)
- **CR-Gain** : User can remove add more red color on image using left and right button. (256 steps)



Camera Operation

FUNCTION

1. Position the cursor to point to 'FUNCTION' on the SETUP menu by using the UP and DOWN buttons.
2. Select the mode required by pressing the UP or DOWN button.

FUNCTION	
RETURN	
CAMERA ID	ON ↕
DAY NIGHT	COLOR
MIRROR	OFF
MOTION	OFF
PRIVACY	OFF
GAMMA	0 . 45
LANGUAGE	ENGLISH
RESET	↕

- **CAMERA ID** : If an ID is input, this camera ID appears on the monitor and recorded footage.

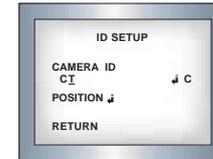
- 1) Position the cursor to point to 'CAMERA ID' by using the UP or DOWN button.
- 2) Select 'ON' by pressing the LEFT or RIGHT button.

Note

- If 'OFF' is selected, the ID does not appear on the monitor even if it has been input.

FUNCTION	
RETURN	
CAMERA ID	ON ↕
DAY NIGHT	COLOR
MIRROR	OFF
MOTION	OFF
PRIVACY	OFF
GAMMA	0 . 45
LANGUAGE	ENGLISH
RESET	↕

- 3) Press the SET button.



- 4) Up to 15 characters can be used for the camera ID.

- Move the cursor to a Position and choose a character by using the UP and DOWN button.
- Move the cursor to '↕' symbol and press SET to finish the ID process.
- Move the cursor to 'C' letter and press SET to delete the selected letter.
- Select an using alphabet, numbers(0~9) and 27 special symbols.
- Lock in the characters by using the SET button at '↕' position.
- Repeat the above steps until the ID is complete.

- 5) User can select a position to display the camera ID.

Note

- **If the wrong name has been input....**

Press the SET button after moving the cursor to CLR and all the letters will be erased. If you want to correct a letter move the cursor to the arrow at the bottom left of the screen and press 'SET'.

Position the cursor above the letter you wish to correct and then move the cursor onto the letter you wish to choose and press the SET button.

DAY & NIGHT

- **AUTO** : This camera has an IR Cut Filter and automatically changes to the appropriate mode dependant on lighting levels. COLOR mode is selected during daylight and B/W mode at night time.
- **COLOR** : The color mode is selected by default, and the modes do not change automatically.
- **B/W** : Discard color information and display black and white mode.

■ Camera Operation

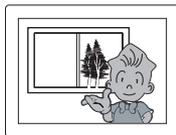


Note

- When the AGC is turned off, COLOR does not operate.
- When an infrared light is used, there may be a problem with focusing.

● MIRROR

- ON : Sets a horizontal image inversion.
- OFF : Cancels the inversion.



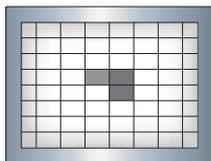
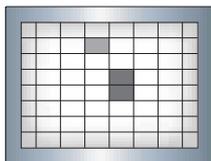
MIRROR ON



MIRROR OFF

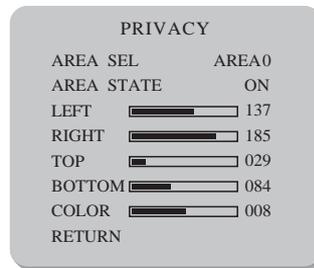
● MOTION DETECTION

User can set the motion detection area just like BLC area setting. The screen is divided in 64 squares. Selected areas are brighter than non-selected areas. The cursor turns red within the selected area white it turns yellow with in the non-selected areas. Toescape from the area selection, press 'SET' button for 3seconds and select 'EXIT' to return to the main menu. Users can select all areas using 'ALL SET' and can deselect all areas using 'ALL CLEAR'.



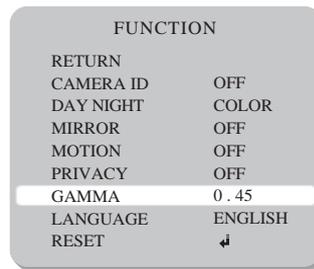
● PRIVACY

User can set up to 4 areas for the privacy zone. 'AREA STATE' menu lets users to turn the privacy mode on or off within the designated areas. The value of 'LEFT' cannot be greater than the value of 'RIGHT'. The value of 'TOP' cannot be greater than the value of the 'BOTTOM'. 'COLOR' setting is applied to all 4 privacy areas.



● GAMMA

User can change the gamma setting by 0.5 between 0 and 10 (20 steps total).



■ Camera Operation

● LANGUAGE

User can select the preferred language in the OSD menu among English, Korean, Chinese(Big5), Chinese(Simplified), Japanese.

FUNCTION	
RETURN	
CAMERA ID	OFF
DAY NIGHT	COLOR
MIRROR	OFF
MOTION	OFF
PRIVACY	OFF
GAMMA	0 . 45
LANGUAGE	ENGLISH
RESET	↵

- **RESET** : Returns to the level which was set by the manufacturer for shipment.
- **RETURN** : Saves the FUNCTION menu and returns to the SETUP menu.

EXIT

Saves all the setting menus and then exits.

■ Troubleshooting

If there are problems with the camera operation, check the tables below. If the problem persists, please contact the agent who supplied the product.

Problems	Troubleshooting
Nothing appears on the screen.	<ul style="list-style-type: none"> • Check the power connection. • Check the video signal line connection. • Check and make sure that the auto lens switch is correctly set to DC or VIDEO depending on the type of lens attached.
The video image is not clear.	<ul style="list-style-type: none"> • Make sure that the lens is clean. Clean the lens with a clean lint free cloth or brush. • Adjust the contrast control on the monitor. • Make sure that the screen is not exposed directly to a bright light. Re-position the camera if necessary. • Re-adjust the back focus of the camera.
The screen is dark.	<ul style="list-style-type: none"> • Adjust the contrast control of the monitor. • If there is an intermediate device, set the 75ohm Hi-z correctly, and also check the connections. • Check if an auto iris lens is being used and if necessary adjust the brightness level.
There is a problem with the camera operation. The camera surface is too hot and black stripes appear on the screen.	<ul style="list-style-type: none"> • Please check if an appropriate power source to the camera complies with the manufacturer's standard requirement, or if the voltage is fluctuating. Check for ground loops.
The MOTION DETECTION function is not working.	<ul style="list-style-type: none"> • Check if 'MOTION DETECTION' mode is turned on. • Check the setting of the MD AREA.
Colors are not quite right.	<ul style="list-style-type: none"> • Check the 'WHITE BAL' setting.
The screen is flickering.	<ul style="list-style-type: none"> • Check if the camera is facing directly into sunlight or fluorescent light. • Check if an auto iris lens is being used. • Check the connection of the lens connector cable.
COLOR mode is not working.	<ul style="list-style-type: none"> • Check if the AGC menu is set to the OFF position.

Specifications

MEMO

ITEM		NTSC		PAL	
Power Source		AC24V / DC12V	DC12V	AC24V / DC12V	DC12V
		250mA(AC24V)/400mA(DC12V)	300mA	250mA(AC24V)/400mA(DC12V)	300mA
C C D	Total Pixels	811(H) x 508(V)		795(H) x 596(V)	
	Effective Pixels	768(H) x 494(V)		752(H) x 582(V)	
	Size	1/3 inch interline transfer CCD			
	Scanning System	2:1 Interlace			
sync	Synchronization	INT			
E L E C T R I C A L	Frequency	Horizontal:15.734 KHz Vertical :59.94 Hz		Horizontal: 15.625 KHz Vertical : 50.00 Hz	
	Resolution	More than 560 TV Lines			
	Video Output	1.0Vp-p/75Video 0.714Vp-p Sync 0.286V(p-p)		1.0Vp-p/75 (Video 0.7 Vp-p Sync 0.3 Vp-p)	
	SN (Y signal)	50dB (AGC Off)			
	Min. Illumination	0.3Lux 40 IRE / F1.2 (Color), 0.1Lux 40 IRE / F1.2 (B/W)			
	Color	ON / AUTO / BW			
	White Balance	ATW / AWB / FIXED / MANUAL(1,800°K~10,500°K)			
	Electronic Shutter Speed	AUTO(1/60~1/100,000) / MANUAL / FIXED / FLK		AUTO(1/50~1/100,000) / MANUAL / FIXED / FLK	
	O.S.D	Built-in			
	Motion Detection	ON / OFF (64 Programmable Zone)			
	BLC	ON / OFF (64 Programmable Zone)			
	Mirror	Built-in (Horizontal Image Inversion)			
	Privacy Function	ON / OFF (4 Programmable Zone)			
	Iris Control	DC / VIDEO			
Lens Mount	C/CS Mount (Screw Lock)				
Operating Temperature/Humidity	-10°C ~ +50°C / 30~90% RH				
Weight	320g				