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VAN 05. 11

HIGH RESOLUTION DAY&NIGHT THREE-AXIS V/F LENS DOME CAMERA

INSTRUCTION MANUAL

SID-450

About this manual

Please read this manual carefully before installing and using the camera. Be sure to keep the manual handy for later reference.

Thank you for purchasing a **SAMSUNG DOME CAMERA**.
 Before operating the camera, confirm the camera model and proper input power voltage. In order to that you can understand this manual thoroughly, we'll introduce our model description.

■ **SID-450 SERIES**

- NTSC MODELS
SID-450N

- PAL MODELS
SID-450P

■ **MODEL DESCRIPTION**

- SID-450X



- SIGNAL SYSTEM
N --> NTSC MODEL
P --> PAL MODEL

- POWER SOURCE
DC 12V ONLY

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



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. 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.

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

- ◆ Do NOT use power sources other than that 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.

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems)

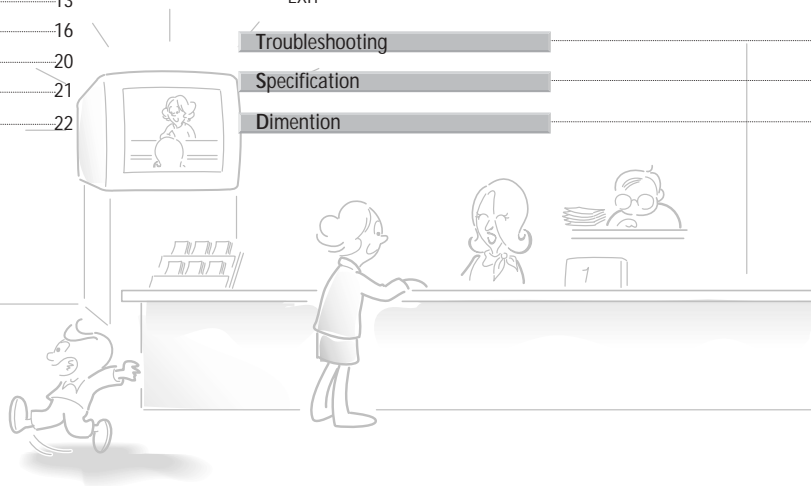
This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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Features



Built-in Auto Iris Vari-Focal Lens.

The focal length of lens is 3 to 9 mm(F 1.2). Equivalent to 3X zoom. The built-in lens allow the camera to have wider dynamic range, therefore you can use in various applications.

Horizontal Resolution 530 TV Lines

Clear image quality has been achieved by employing a CCD with 410,000 pixel(NTSC), 470,000 pixel(PAL), which provides a horizontal resolution of 530 TV lines.

Electronic DAY & NIGHT

This camera has a function that electronically 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.

PRIVACY Function

The PRIVACY function conceals the areas you do not wish to appear on the screen.

High Sensitivity

The built-in high sensitivity COLOR CCD enables a clear image even in 0.002Lux (Sens-Up) illumination.

SSNR (Samsung Super Noise Reduction)

By using built-in SSNR function manufactured by SAMSUNG TECHWIN, the amount of low illuminance noise has been significantly reduced, and the signal-to-noise ratio (S/N) as well as horizontal resolution have been improved, resulting in a clear and sharp image display even in the dark.

Controlled by OSD Menu

The camera can be controlled by selecting text displayed on the monitor screen.

Sub Monitor Function

The sub monitor function enables easy adjustment of the camera angle within the monitoring range during its installation.

Additional Functions

SENS-UP, MOTION DETECTION, MIRROR, SHARPNESS and SYNC(INT/LL) functions are also available.

Warning



The camera needs periodic inspection.

Contact an authorized technician for inspection.

Stop using your camera when you find a malfunction.

If you use your camera around smoke or unusual heat for a long time, a fire may be caused.

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

Unless the surface is suitable, it could cause falling or other hazards.

Do not handle the camera with wet hands

It could cause an electric shock.

Do not disassemble the camera.

It may result in fire, electric shock or other hazards.

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

It may result in fire or other hazards.

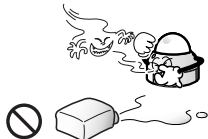
Precautions

Installation of the camera should be performed by qualified service personnel only.



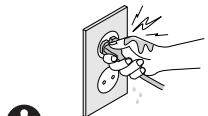
As installation of the camera requires experience and skill, installation without the assistance of qualified service personnel may result in a risk of fire or electric shock. Contact our agency for installation.

Do not install the camera in a wet place or a place that is exposed to fuel or gas.



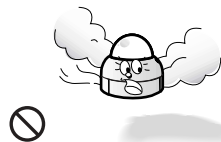
It may result in malfunction, an electric shock or fire.

Do not touch the power plug with wet hands.



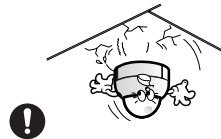
It may result in an electric shock.

Stop use immediately if smoke or unusual heat is detected in the camera.



It may result in fire.

Do not install the camera in an unstable location.



It may fall.

Do not attempt to disassemble it, or place any foreign objects inside it.



It may result in malfunction and fire.

Do not install the camera in locations subject to extreme temperature conditions.



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

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



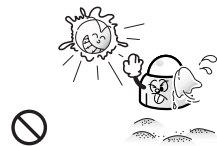
It can cause malfunctions to occur.

Do not install the camera in unstable lighting conditions.



Severe changes in lighting, or flickering, can cause the camera to work incorrectly.

Never face the camera directly into strong light.



Never face the camera directly into strong light. It can damage the CCD.

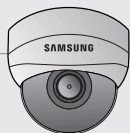
Notes

- 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.

Composition



1. SID-450



2. Instruction Manual



3. M4 Tapping Screws 4EA



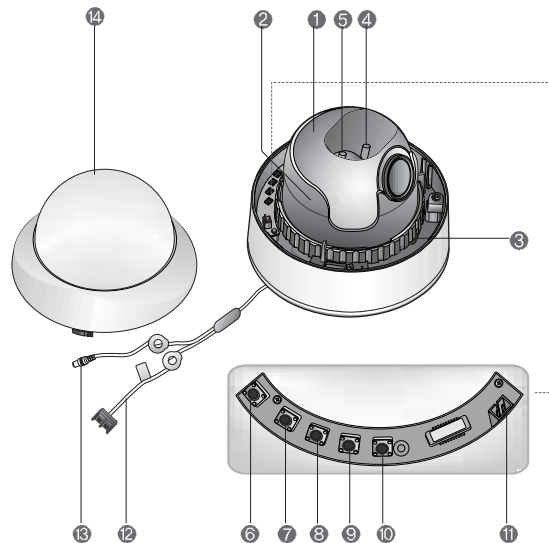
4. M4 Machine Screws 4EA



5. Adapter plate



Name and Function of Each Section



① Lens Rotation(3-axis)

② Lens Rotation(3-axis) Guide

The lens can be adjusted $\pm 175^\circ$ horizontally and $\pm 80^\circ$ (tele) vertically.

When adjusting the lens angle, rotate the lens rotation together with rotation guide.

③ Rotation(3-axis) Lock

④ Focus Handle

To provide for accurate focusing of an object within the lens field of view.

Name and Function of Each Section

5 Zoom Handle

To adjust zoom magnification by turning.

6 SETUP button

Used for the menu display or function settings.

7 Left button

8 Right button

Used when changing item values, by moving the cursor to the left or right on the menu screen

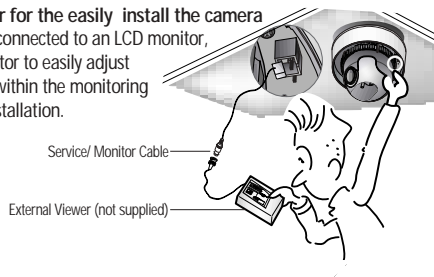
9 Up button

10 Down button

Used when changing item values, by moving the cursor to the up or down on the menu screen

11 Service connector for the easily install the camera

A terminal can be connected to an LCD monitor, allowing the operator to easily adjust the camera angle within the monitoring range during its installation.



12 Power input jack

13 BNC jack

14 Dome cover

Dome cover is made of high sensitivity poly carbonates

Installation

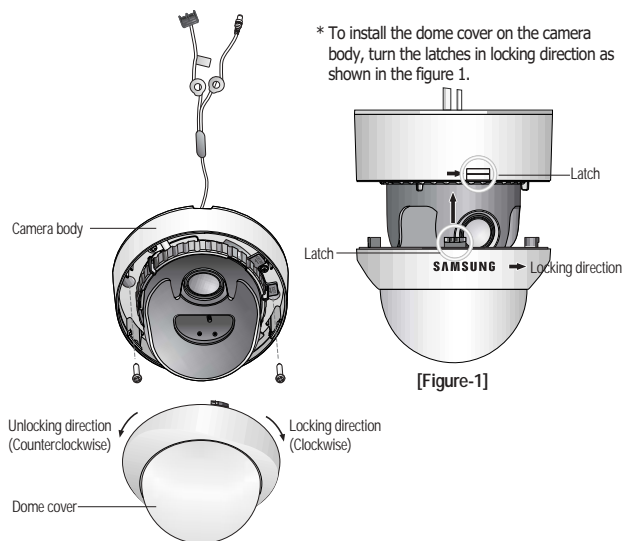
Camera Installation



Notes

- The product has been designed for installation on a ceiling. If the ceiling is not strong enough to support the camera, it may fall. Take the necessary steps to strengthen the installation surface before installing the camera.

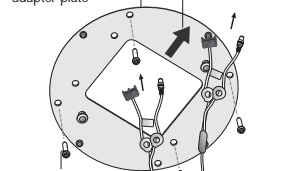
Remove the dome cover by turning it counter-clockwise as shown below and then follow the steps for installation.



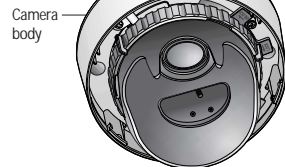
Installation

1. When installing on a adapter plate

An arrow for installing directions
adapter plate

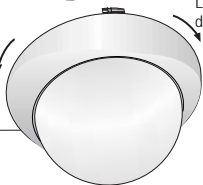


M4 tapping screw
(provided)

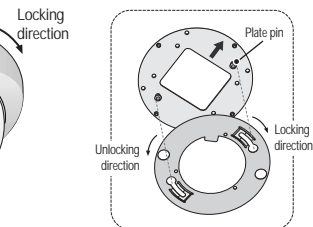


Unlocking direction

Dome cover



- 1) Place the bracket provided on the installation surface and fix it with the M4 tapping screws (provided). (Select either 85X85 or 83.5X46)
- 2) When placing the camera body on the plate, insert the plate pin into the mounting hole on the body as shown in figure-1 and fix it by turning clockwise.
- 3) When placing the camera body on the plate, make sure the power and the BNC cables pass through their respective designated holes. (When placing the cable through its side, thread it through the hole at the bottom.)
- 4) After installation and adjustment of the camera are complete, secure the dome cover by turning it clockwise.



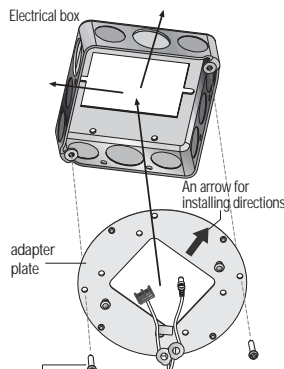
[Figure-1]

Notes

- Please locate an arrow on bracket for installing direction that you wish to observe Area and then fix it with the M4 tapping screws.

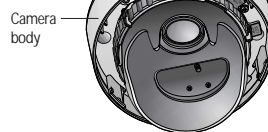
2. When installing the camera on a electrical box

Electrical box



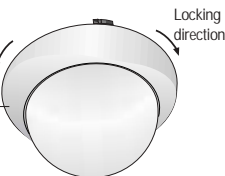
adapter plate

M4 tapping screw
(provided)

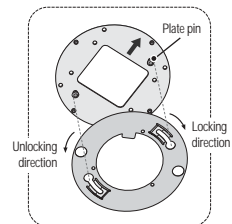


Unlocking direction

Dome cover



- 1) Place the bracket provided on the electrical box where the camera will be installed and fix it with the screws provided. Fix it correctly, depending on the type of electrical box: 85 X 85 and 83.5X 46
* Screw a bracket to a electrical box till the plate is not modified, otherwise the camera may not be assembled.
- 2) When placing the camera body on the plate, insert the plate pin into the mounting hole on the body as shown in figure-1 and fix it by turning clockwise.
- 3) When placing the camera body on the plate, make sure the power and the BNC cables pass through their respective designated holes.
- 4) After installation and adjustment of the camera are complete, secure the dome cover by turning it clockwise.



[Figure-1]

Installation

Adjusting lens angle.

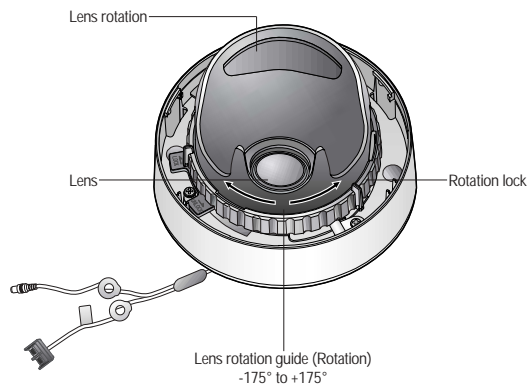
1. Lens 3-axis adjustment

(1) Adjusting the horizontal angle (PAN operation)

- 1) Turn the rotation lock to the unlocking direction(counter-clockwise) to free the rotation guide.
- 2) Turn the rotation guide to the desired direction. (The adjustable range is from -175° to $+175^{\circ}$)
(When turning the rotation guide, make sure the internal lens rotates together with it.)

Notes

- Be aware that turning only the rotating lens for horizontal angle adjustment may result in equipment failure.



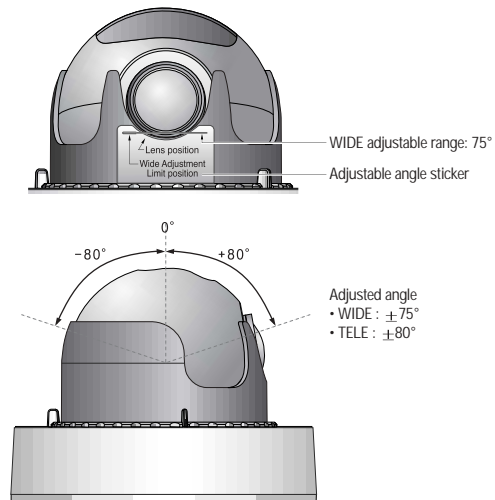
(2) Adjusting the vertical angle (Tilt operation)

- 1) Adjust the lens rotation vertically to have the desired field of view shown on the screen.

(Do not turn the rotating lens horizontally as it may jeopardize correct functioning of the lens control for zooming and focusing.)

Notes

- Be aware that turning only the rotating lens for horizontal angle adjustment may result in equipment failure. For vertical angle adjustment, the adjustable range is 75° for WIDE and 80° for TELE. Be aware that, if the WIDE angle exceeds 75° , video may not be visible after assembling the dome cover.



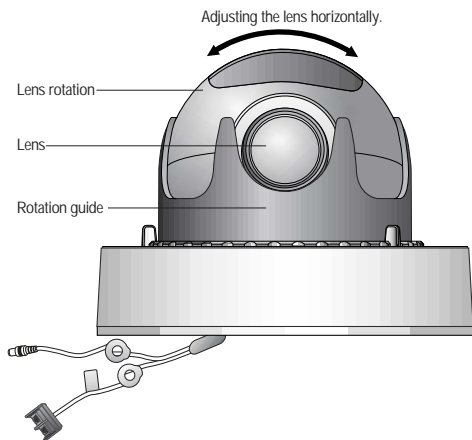
Installation

(3) Adjusting the H. position of the screen (Z-axis operation)

- 1) After setting the lens direction of the rotating lens, turn the rotation horizontally with the zoom and focus control groove facing downwards (towards the bottom surface).

Notes

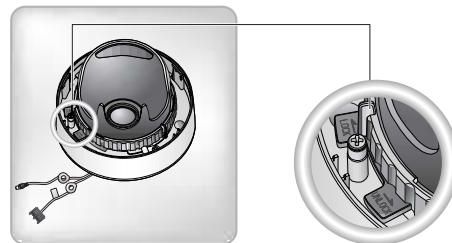
- Be aware that turning only the lens rotator for horizontal angle adjustment may cause an equipment failure. When installing the camera on a wall, control the zoom and the focus, and then adjust the H. position of the screen. The handle operations for zooming and focusing may be difficult after adjusting H. position; adjusting the lens beforehand can prevent this operational difficulty.



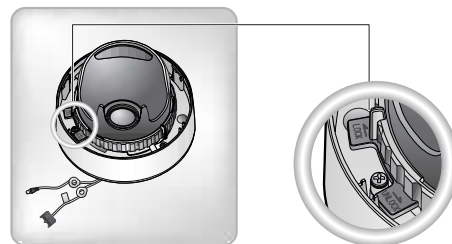
2. Adjusting the screen, unlock or lock it.

- 1) To adjust the lens, turn the rotation lock to the UN-LOCK position.
- 2) To fix the lens, turn the rotation lock to the LOCK position.

Unlocking direction



Locking direction

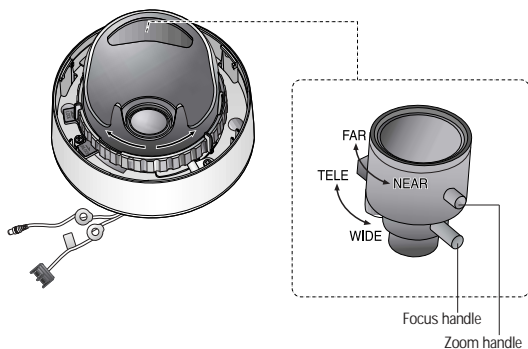


Installation



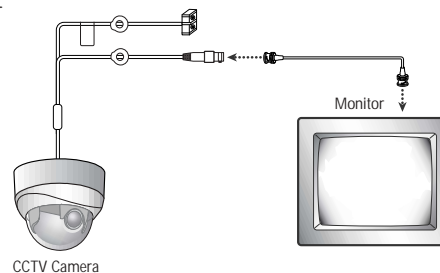
Adjusting varifocal lens zoom and focus

- 1) Unlock the zoom (or the focus) handle to release it
- 2) Adjust the zoom (or the focus) handle by moving it to WIDE (NEAR) or TELE (FAR) position.
- 3) After adjustment, tighten the zoom (or the focus) handle, taking care that the adjusted position does not change.

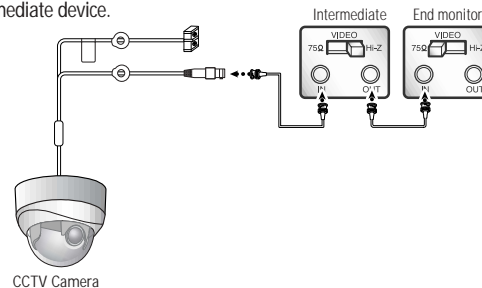


Connecting to a Monitor

Please connect video output terminal located on the back of the camera to the monitor



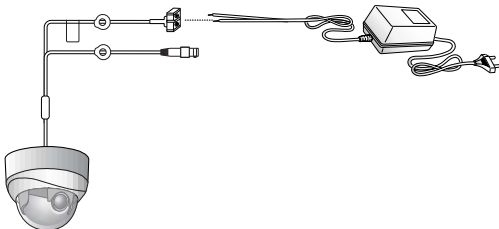
- As the connecting method varies with the instruments, refer to the manual supplied with the instrument.
- If necessary, you can connect the monitor to the REMOTE jack on the back of your camera.
- Only connect the cable when the power is turned off.
- Set the 75Ω / Hi-Z selection switch as shown below if you have an intermediate device.



Installation

Connecting to Power

Connect the adaptor to the power input connector as shown in the figure below. The recommended adaptor specification for SID-450N/SID-450P is DC 12V, 500mA.



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 (Ω / 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%

*There may be some deviation in voltage drop depending on the type of wire and the manufacturer.



Notes

- Adaptor isn't offer to accessory.
- Please check the polarity of the DC power source before connecting to power.

Camera Operation

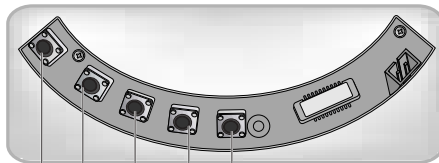
Menu

SETUP menu	
LENS (Adjusting to a lens)	· DC
SHUTTER (Condition and speed control)	· FLK
WHITE BALANCE control	· ATW · AWC · MANUAL
BACKLIGHT (Backlight compensation)	· OFF · LOW · MIDDLE · HIGH
AGC (Auto Gain Control)	· OFF · LOW · MIDDLE · HIGH
SSNR (Samsung super noise reduction)	· OFF · LOW · MIDDLE · HIGH
SENS-UP (Low illuminance)	· OFF · AUTO(X2-X128)
SPECIAL	· CAMERA ID · COLOR · SYNC · MOTION DET · PRIVACY · MIRROR · SHARPNESS · RESET · RETURN
EXIT	

Camera Operation

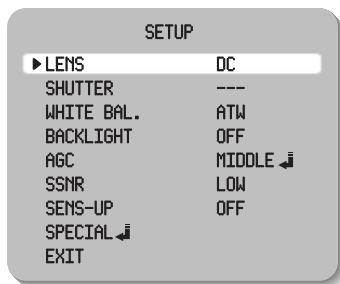
Settings

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



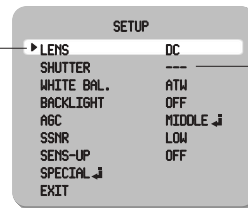
1. Please press the SETUP button

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



2. Please select any function you wish to activate by using the UP and DOWN buttons.


- The arrow can be moved up or down by using the UP and DOWN buttons. Please position the arrow to point to the function you wish to operate.



3. Please 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. Please select 'EXIT' and then press the SETUP button to finish the setting.



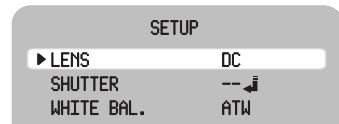
Notes

- If  appears at the mode you wish to operate, it means that there is a sub-menu which can be selected by pressing the SETUP button.
- If --- appears at the mode item, it means that there is no mode available to be selected.

LENS(Adjusting to the brightness level)

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

1. When the SETUP menu is displayed on the screen, please position the arrow to point to 'LENS' by using the UP and DOWN buttons.



Camera Operation

2. Using the SETUP button, you can control the brightness of the screen.



Notes

- The brightness of the screen can be adjusted within the range of 1-70. The optimum level of brightness for the user can be achieved by adjustment.

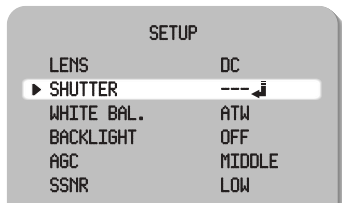


3. Please press the SETUP button if you wish to return to the previous menu.

SHUTTER (condition and speed control)

Because of using the DC lens, the shutter speed is fixed at 1/60.

- When the SETUP menu is on the screen, please position the arrow to point to 'SHUTTER' by using the DOWN button.
- Please select the shutter mode by pressing the LEFT or RIGHT button.
 - FLK:** Please 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

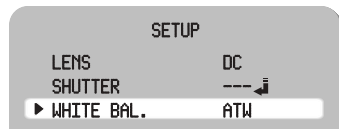


3. Please press the SETUP button when all the settings are complete.

WHITE BALANCE control

The screen color can be adjusted by using the WHITE BALANCE function.

- Please position the arrow to point to 'WHITE BAL.' on the SETUP menu by using the UP and DOWN buttons.
- Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



*Please select one of the 3 modes below.

- ATW(Auto Tracking White Balance):** This mode can be used within the color temperature range 1,800°K ~ 10,500°K (Ex. fluorescent light, outdoor, sodium vapor lamp or inside tunnels)
- AWC(Auto White Balance Control):** Please press the SETUP 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 is changed, you have to adjust the white balance again.
- MANUAL:** The manual adjustment mode enables finer adjustment. Please select ATW or AWC first. Please change to manual adjustment mode and press the SETUP button. Please set the appropriate color temperature, and then increase or decrease the red and blue color values while monitoring the color changes on the object.



Notes

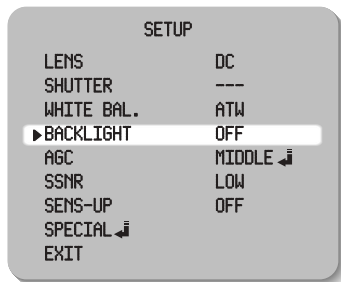
- Under the following conditions the WHITE BALANCE function may not operate properly. In such cases, please select the AWC mode.
 - When the object's surroundings have a very high color temperature (Ex. a clear sky and sunset)
 - When the object's surroundings are dark
 - If the camera directly faces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

Camera Operation

BACKLIGHT (Backlight 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. Please position the arrow to point to 'BACKLIGHT' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



- **HIGH/MIDDLE/LOW:** You can adjust the sensitivity of Backlight Compensation.
- **OFF:** BACKLIGHT function does not operate.



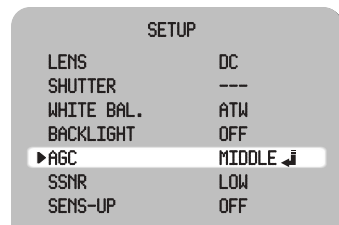
BACKLIGHT ON



BACKLIGHT OFF

AGC (Auto Gain Control)

1. Please position the arrow to point to 'AGC' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button. As the level of gain increases, the screen gets brighter and the level of noise also increases.
 - **HIGH:** The gain increases or decreases within the range of 6dB ~ 34dB.
 - **MIDDLE:** The gain increases or decreases within the range of 6dB ~ 30dB.
 - **LOW:** The gain increases or decreases within the range of 6dB ~ 18dB.
 - **OFF:** The gain is fixed at 6dB.



3. Please press the SETUP button. The BRIGHTNESS can be adjusted within the range of 1~70.



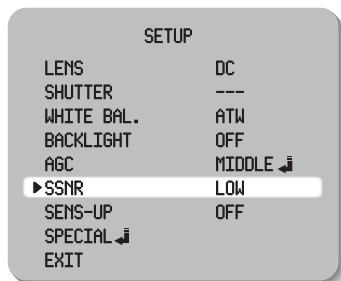
4. Please press the SETUP button when all the settings are complete.





Camera Operation

SSNR (Samsung Super Noise reduction)

The background noise in the low light level decreases automatically as the level of gain changes.

1. Please position the arrow to point to 'SSNR' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.



-  **OFF:** There is no reduction in noise level.
-  **LOW:** There is a small reduction in noise level with almost no ghost image.
-  **MIDDLE:** The most effective mode. There is a sufficient reduction in noise levels without causing much ghost imaging.
-  **HIGH:** The level of noise is reduced greatly, however there is an increase in ghost imaging.





Notes

- When AGC is turned off, SSNR does not operate.

SENS-UP (Low illuminance)

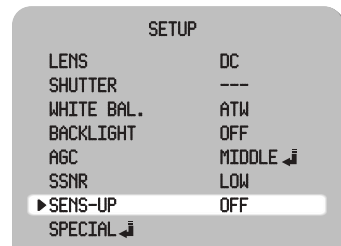
SENS-UP helps maintain a bright, clear screen image by automatically detecting changes in the level of light in low light level conditions.

1. Please position the arrow to point to 'SENS-UP' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.
 -  **AUTO:** Low light level auto mode
 -  **OFF:** The function does not operate.



Notes

- When SHUTTER is in the manual mode, SENS UP does not operate.



3. Please press the SETUP button when all the settings are complete.



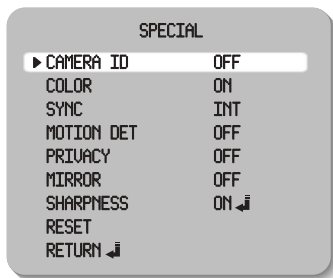
Notes

- The maximum storage magnification in low light level can be adjusted by pressing the SETUP button in 'AUTO' mode. (X2~X128)
- As the magnification increases, the screen gets brighter; moving object gets more afterimage.
- If storage magnification is increased while SENS UP is operating, it may cause noise, and spots may appear; however this is normal.

Camera Operation

SPECIAL

1. Please position the arrow to point to 'SPECIAL' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the UP or DOWN button.



Ⓢ **CAMERA ID:** If the ID is input, the camera ID appears on the monitor.

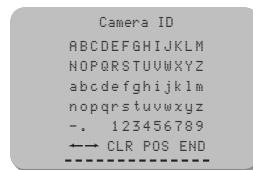
- 1) Please position the arrow to point to 'CAMERA ID' by using the UP or DOWN button.
- 2) Please select 'ON' by pressing the LEFT or RIGHT button.

Notes

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

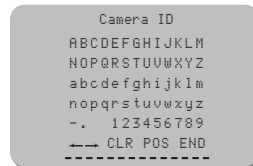


- 3) Please press the SETUP button.



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

- ① Please move the cursor to the letter you wish to choose by using the UP and DOWN button.



- ② Select an ID from A, B-Y, Z, a, b-y, z, 0, 1-8, 9 by using the UP, DOWN, LEFT and RIGHT buttons.

- ③ Please lock in the letters by using the SETUP button.

- When the letter is locked in, the cursor moves to the next space.

- ④ Please repeat the above to input the ID.

Notes

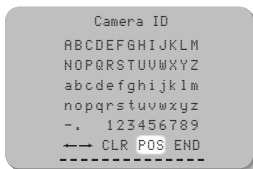
- If the wrong name has been input.....

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

Camera Operation

5) When a name has been chosen, please select a position for the name display.

- 1 Please move the cursor onto 'POS' and then press the SETUP button.



- 2 The name will appear at the top left hand corner.



- 3 Please find the position you wish to display the name by using the 4 directional buttons, and then press the SETUP button.




6) Please select 'END' and then press the SETUP button to complete ID input.

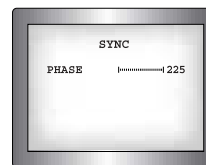
COLOR (Electronic DAY & NIGHT)

- AUTO: This camera has a function which electronically changes to the appropriate mode for daytime or night-time. The COLOR mode is operated for daytime, and it converts to BW mode for night-time.
- ON: The color mode is selected electronically.



Notes

- If AGC is OFF, you can't select AUTO mode.
 - When an infrared light is used, there may be a problem with focusing and COLOR (DAY & NIGHT).
-  **SYNC** : In LINE-LOCK mode, it synchronizes the video signal between cameras without a synchronous generator.
- INT : Internal synchronization - LL : External line-lock synchronization
 - If you choose 'LL', you can adjust the desired phase. Press the SET button.
 - You can adjust the desired phase from 0 to 359.



Notes

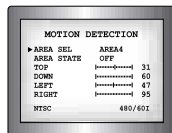
- 'Sync.' mode is fixed to 'INT' in DC 12V input power.

Camera Operation

MOTION DETECTION:

This product has a feature that allows you to observe movements of objects in 4 different areas on the screen, and the words 'MOTION DETECTED' appear on the screen when movement is detected; hence a single individual can conduct supervision efficiently. The camera detects an object's movement by sensing disparity of outline, and level of brightness and color.

- Please press the SETUP button.
 - OFF : MOTION DETECTION mode is cancelled.
 - ON : Any motion in the selected areas is observed.
- Please select the area you wish to observe from the 4 areas in AREA SEL mode.
- Please select ON mode for the chosen area.
- Please adjust the size of the area to be observed by using the UP, DOWN, LEFT or RIGHT button.



- Please press the SETUP button to save the changes and complete the setting.

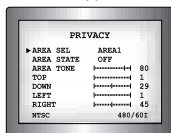


Notes

- There is no 'MD' output signal. 'MD' is on screen display only words.

PRIVACY:

- This mode conceals the areas you do not wish to appear on the screen.
- OFF : Cancels the PRIVACY mode.
 - ON : Operates the PRIVACY mode.
- Please press the SETUP button.



- Please select the area you do not wish to appear from the 4 areas in AREA SEL mode.
- Please select ON mode for the chosen area.
- Please adjust the size of the area to be concealed by using the UP, DOWN, LEFT or RIGHT button.

MIRROR

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



MIRROR ON



MIRROR OFF

SHARPNESS:

The outline of the video image becomes cleaner and more distinctive as the level of SHARPNESS increases. If the level goes up excessively, however, it may affect the video image and generate noise.

- Please press the SETUP button.



- The available range of level is 0 ~ 31.

RESET:

- Returns to the level which was set by the manufacturer for shipment.

RETURN:

- Returns to the SETUP menu.

EXIT

Saves all the setting menus and then exits.

Troubleshooting



If you have trouble operating your camera, refer to the following table. If the guidelines do not enable you to solve the problem, contact an authorized technician.

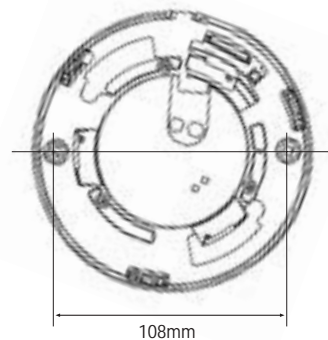
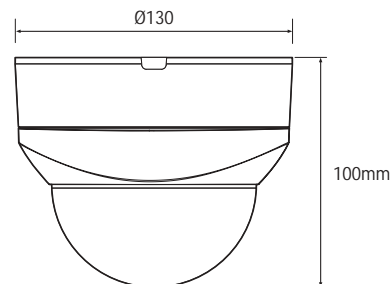
Problem	Solution
Nothing appears on the screen.	<ul style="list-style-type: none"> • Please check the power connection. • Please check the video signal line connection. • Please check the Brightness of Auto Iris lens.
The video image is not clear.	<ul style="list-style-type: none"> • Please check if the lens is clean. Please clean the lens with a clean cloth or brush. • Please adjust the contrast feature of the monitor. • Please make sure that the screen is not exposed directly to a bright light. Please move the camera if necessary.
The screen is dark.	<ul style="list-style-type: none"> • Please adjust the contrast feature of the monitor. • If you have an intermediate device, set the 75Ω/Hi-z properly, and check the terminals. (refer to page 21) • Please adjust the brightness level of the Auto Iris lens. • If you take the focus of the lens, adjust the focus lever of the lens.
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 keeps changing.

Problem	Solution
The MOTION DETECTION function is not working.	<ul style="list-style-type: none"> • Please check if 'MOTION DETECTION' mode is turned on. • Please check if the MD LEVEL is too low. • Please check the setting of the MD AREA.
Colors are not quite right.	<ul style="list-style-type: none"> • Please check the 'WHITE BAL' setting. (Please refer to page 27)
The screen is flickering.	<ul style="list-style-type: none"> • Please check if the camera is facing directly into sunlight or fluorescent light.
L/L mode isn't able to be selected.	<ul style="list-style-type: none"> • Have you connected your camera to DC power source? Connect it to AC power source.
L/L mode is not available.	<ul style="list-style-type: none"> • When using DC 12V input power, 'Sync' mode is fixed to 'INT'.
COLOR (DAY & NIGHT) mode is not working.	<ul style="list-style-type: none"> • Please check if the AGC menu is set to the OFF position.
SENS-UP function is not working.	<ul style="list-style-type: none"> • Please check if the AGC menu is set to the OFF position. • Please check the limit of SENS-UP AUTO mode.

Specifications

ITEM		SID-450N	SID-450P	
POWER		DC 12V \pm 10%, Max 2.5 W		
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)	
	Sensor	1/3 inch Super HAD CCD		
S Y C.	Scanning System	2:1 Interlace		
	Synchronization	Internal		
	Frequency	Horizontal: 15.734KHz Vertical: 59.94 Hz	Horizontal: 15.625 KHz Vertical: 50Hz	
L E N S	LENS TYPE		3X Vari-focal Lens (F1.2 f3-9mm)	
	Max. Aperture Ratio		1:1.2-2.1	
	Angle of View	Horizontal	90°(Wide)-31.8°(Tele)	
		Vertical	66.2°(Wide)-23.9°(Tele)	
	Monitoring Angle	Pan	-175° ~ +175°	
		Tilt	\pm 75°(WIDE) / \pm 80°(TELE)	
	Resolution		530 TV Lines(Min.)	
Video Output		1.0Vp-p/75 Ω (Video 0.714Vp-p Sync 0.286Vp-p)	1.0Vp-p/75 Ω (Video 0.7 Vp-p Sync 0.3 Vp-p)	
E L E C T R I C A L	S/N (Y signal)		50 dB (AGC Off / Weight ON)	
	Min. Illumination		0.3 Lux / F1.2, 0.002Lux(SENS-UP X128)	
	COLOR(DAY&NIGHT)		ON/AUTO(Daytime:COLOR, Night time: BW) Selectable	
	White Balance		ATW/AWC/Manual (1800K-10,500K)	
	Backlight		LOW/MIDDLE/HIGH/OFF Selectable	
	Electronic shutter speed		Fixed (1/60 or Flickerless Mode)	Fixed (1/50 or Flickerless Mode)
	Sens-Up		OFF/AUTO(selectable limit X2-X128)	
	O.S.D		Built-in	
	Motion Detection		OFF/ON(4 Programmable Zone)	
	SSNR		LOW / MIDDLE / HIGH / OFF Selectable (Noise Control)	
MIRROR		OFF/ON (Horizontal Image Inversion)		
Privacy Function		OFF/ON(4 Programmable Zone)		
Sharpness		OFF/ON(Level Adjustable)		
Operating Temperature/Humidity		-10°C~ +50°C / 30 to 80% RH		
Dimension		\varnothing 130 x 100mm(H)		
Weigh		570g		

Dimension



DECLARATION OF CONFORMITY

Application of Council Directive(s) 89 / 336 / EEC

Manufacturer's Name SAMSUNG TECHWIN CO., LTD

Manufacturer's Address SAMSUNG TECHWIN CO., LTD
42, SUNGJU-DONG CHANGWON-CITY,
KYUNGNAM, KOREA, 641-716

European Representative Name _____

European Representative Address _____

Equipment Type/Environment CCTV Camera

Model Name SID-450P

Beginning Serial NO. S1200001

Year of Manufacture 2005. 12. 1

Conformance to EN 50081-1 : 1992
EMC-Directive 89/336 EEC and 92/31/EEC
EN 50130-4 : 1996

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

Manufacturer	SAMSUNG TECHWIN CO., LTD	Legal Representative in Europe
Signature	<u>Young Taek, SON</u>	Signature
Full Name	YOUNG TAEK SON	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2005. 12. 1	Date

MEMO