

SALES NETWORK

- **SAMSUNG TECHWIN CO., LTD.**
145-3, Sangdaewon 1-dong, Jungwon-gu, Seongnam-si,
Gyeonggi-do 462-703, Korea
TEL : +82-31-740-8137-8141 FAX : +82-31-740-8145
- **SAMSUNG OPTO-ELECTRONICS AMERICA, INC.**
ELECTRONIC IMAGING DIV.
40 Seaview Drive, Secaucus, NJ 07094, U.S.A
TEL : +1-201-902-0347 FAX : +1-201-902-0429
- **SAMSUNG TECHWIN MOSCOW OFFICE**
Korp 14, 37-A, PR-KT1, Leningradsky, Moscow 125167, Russia
TEL : +7-95-258-9296-9298 FAX : +7-95-258-9297

- **SAMSUNG OPTO-ELECTRONICS UK, LTD.**
Samsung House, 1000 Hillswood Drive, Hillswood Business
Park Chertsey, Surrey KT16 OPS
TEL : +44-1932-45-5308 FAX : +44-1932-45-5325
- **TIANJIN SAMSUNG OPTO-ELECTRONICS CO., LTD.**
7 Pingchang Rd. Nankai Dist. Tianjin 300190, P.R China
TEL : +86-22-2761-4724(33821) FAX : +86-22-2761-6514

www.samsungtechwin.com
www.samsungcctv.com

P/No. : Z6806-0676-01A
VAN 05. 10

**High Resolution Day & Night
Built-in V/F Lens Camera**

INSTRUCTION MANUAL

SOC-4030

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 CCD CAMERA**.

Before operating the camera, confirm the camera model and proper input power voltage. In order that you can understand this manual thoroughly, we'll introduce our model description.

■ **SDC-415 SERIES**

- NTSC MODELS
SOC-4030N

- PAL MODELS
SOC-4030P



■ **MODEL DESCRIPTION**

- SOC-4030X



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

- POWER SOURCE
DC12V/AC24V compatible

	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.

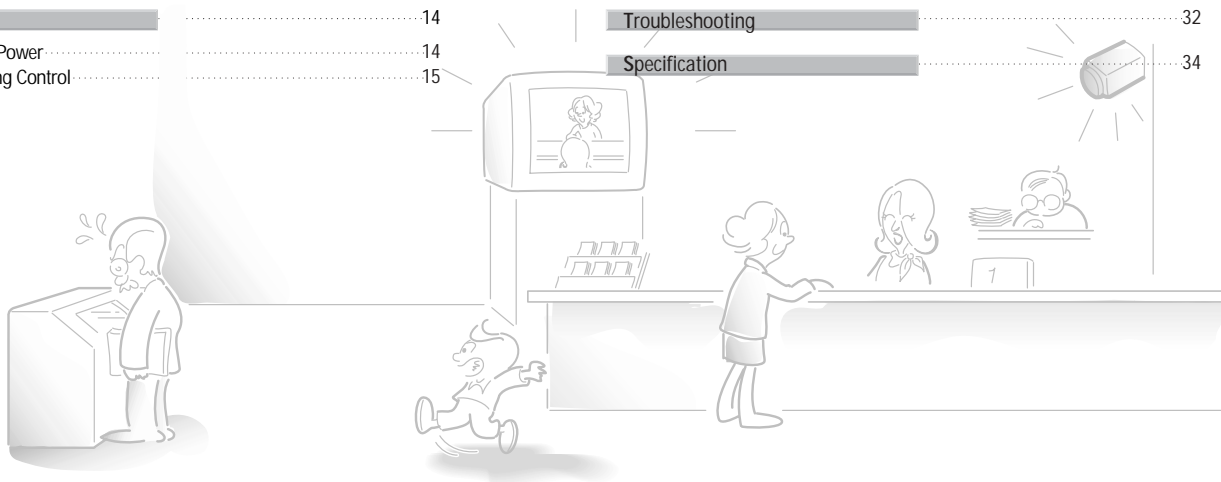
This installation should be made by a qualified service person and should conform to all local codes.

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

Contents



Precautions	8	Camera Operation	16
		■ Menu	16
Composition	10	■ Setting	17
		• LENS (selection)	18
Name and Function of Each Section	11	• SHUTTER (condition and speed control)	20
■ Front	11	• WHITE BALANCE control	20
■ Side	12	• BACKLIGHT (Backlight Compensation)	22
■ Back	13	• AGC (Auto Gain Control)	23
		• SSNR (Samsung Super Noise reduction)	24
Installation	14	• SENS-UP	24
■ Connecting To Power	14	• SPECIAL	26
■ Panning & Tilting Control	15	Troubleshooting	32
		Specification	34



Features



Built-in Auto Iris Vari-Focal Lens.

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



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.



Controlled by OSD Menu

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



High Sensitivity

The built-in high sensitivity COLOR CCD enables a clear image even in 0.3Lux or lower 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.



Compatible Power Source

One power connection self-configures to either 12V DC or 24AC. AC Line lock standards with all cameras In 24V AC operation.



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

Do not install under extreme temperature conditions.



Use only under temperature conditions between -10°C and $+50^{\circ}\text{C}$. Provide good ventilation when using in high temperature conditions.

Do not install in high humidity environment.



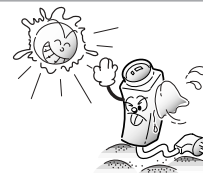
May lower image quality.

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



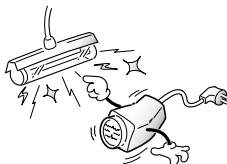
May cause a product malfunction.

Never keep the camera face to strong light directly.



May damage the CCD.

Do not install under unstable lighting conditions.



Severe lighting changes or flickering may hinder normal camera operation.

Avoid touching the camera lens.



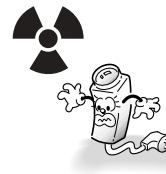
The lens is the most important component of the camera. Be careful not to smear it with fingerprints.

Do not expose the camera to rain or other types of liquids.



Wipe dry any liquids. Liquids may contain minerals that are corrosive to electronic components.

Do not expose the camera to radioactivity.



Radioactivity exposure may damage the CCD.

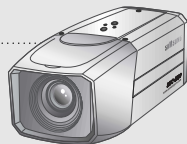


Notes

- Exposure to a spotlight or an object emitting strong light may cause smear or blooming.
- Ensure that the power source complies with normal specifications before supplying it to the camera.

Composition

1. High Resolution Day & Night Built-in V/F Lens Camera SOC-4030N/P



2. DC 12V/500mA Adaptor

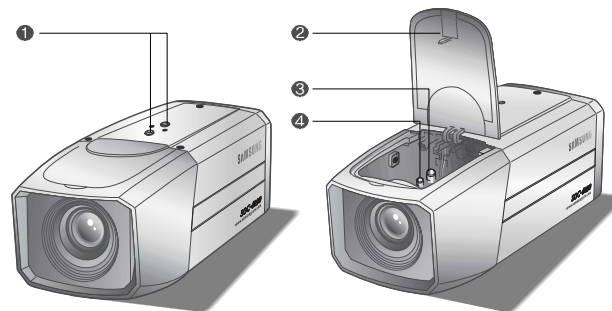


3. Instruction Manual



Name and Function of Each Section

FRONT



- 1 Tripod Mounting Bracket Screw Hole**
Used to fix the Tripod mounting bracket on the top of the camera.
- 2 Control Cover**
Used to access focus or zoom handle.
- 3 Zoom Handle**
To adjust zoom magnification by turning
- 4 Focus Handle**
To provide for accurate focusing of an object within the lens field of view

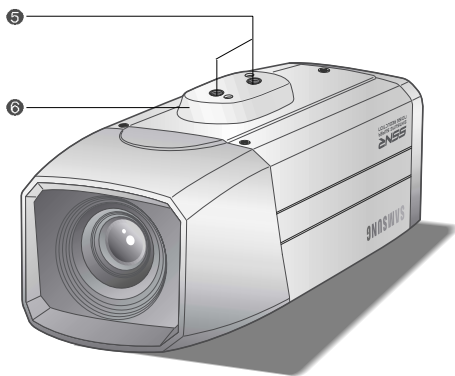


Notes

- When you finish adjusting zoom and focus lever, fix the lever by turning clockwise.

Name and Function of Each Section

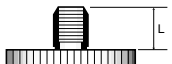
SIDE



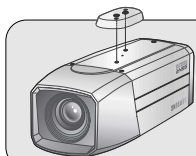
5 Tripod Mounting Hole

Used to install the camera on an optional tripod. The tripod must be equipped with the screw specified as shown below.

1/4"-20 UNC (20 THREAD)
L:4.5mm±0.2mm (ISO standard),
or 0.197" (ASA standard)

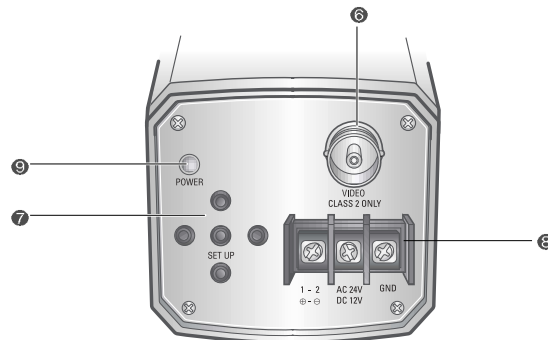


6 Tripod Mounting Bracket



You can remove and install this bracket on the top of the camera. You must use the supplied screw or the equivalent (within 6mm). If not, the bracket may not be fixed properly.

BACK



6 Video output terminal

Sends video signal and connects to the video input terminal of the monitor.

7 Setting button

- **SETUP button** : Used for the menu display. This button can be used to confirm settings after changing the value of the selected function or current conditions.
- **UP & DOWN buttons** : Used for selecting items by moving the cursor up or down on the menu screen.
- **LEFT & RIGHT buttons** : Used when changing item values, by moving the cursor to the left or right on the menu screen.

8 Power input terminal

Connects to the power appropriate to each model.

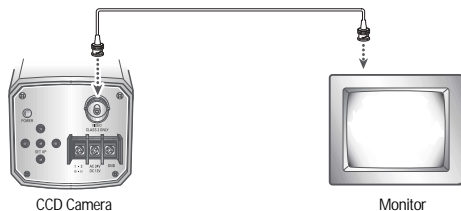
9 Power lamp

Lights up when the correct power is supplied to the camera.

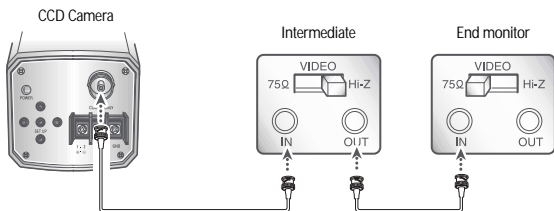
Installation

Connecting to a Monitor

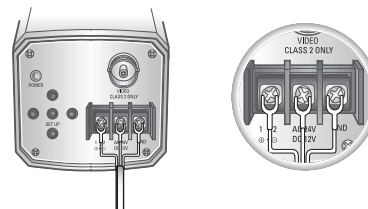
Please connect the video output terminal located on the back of the camera to the monitor.



- The connection method varies depending on the type of monitor and accessories. Please refer to the user's manual for each instrument.
- Please turn off the power when connecting.
- Please select Hi-Z on the 75Ω/Hi-Z switch for the intermediate video TV set and select 75Ω for the Intermediate device as shown in the picture below.



Connecting to Power



- Use AC 24V/300mA or DC 12V/500mA power source for SOC-4030N/SOC-4030P.

Resistance of copper wire [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(Ω/m)	0.078	0.050	0.030	0.018
Voltage drop(V/m)	0.028	0.018	0.011	0.006

- As the voltage drop according to the length of the cable in the above table, a camera may malfunction if there is an excessively long cable run.
- * Voltage for camera operation: 12V DC ±10%
- * Voltage drops in the above table are variable according to types of cable manufacturer.



Notes

- Be sure to connect power only after all the installation is complete.
- Note that AC or DC adaptor is not supplied with camera.
- Use the UL listed, class 2 power transformer of AC 24V adaptor.
- Ground should be connected to the GND terminal.

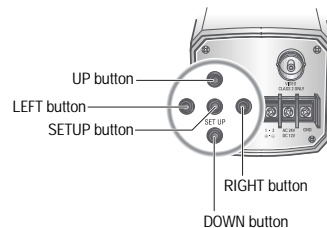
Camera Operation

Menu

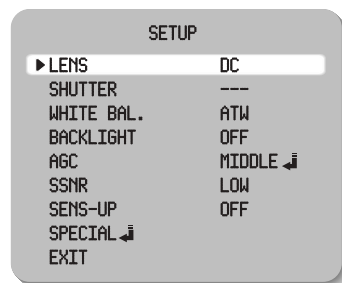
SETUP menu	
LENS	· DC
SHUTTER(Conditon and speed control)	· FLK
WHITE BALANCE control	· ATW · AWC · MANUAL
BACKLIGHT (Backlight compensation)	· OFF · LOW · MIDDLE · HIGH
AGC(Auto Gain Control)	· OFF · LOW · MIDDLE · HIGH
SSNR (Samsung super noise reduction)	· OFF · LOW · MIDDLE · HIGH
SENS-UP(Low illuminance)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

Settings

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



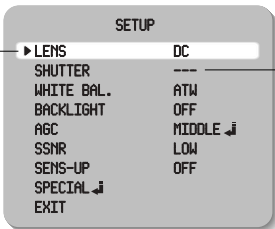
1. Please press the SETUP button
 - Settings can now be made. The SETUP menu is displayed on the monitor.



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.

Camera Operation


Select any function you wish to operate by using the UP and DOWN buttons.



Modes can be changed using the LEFT and RIGHT buttons.

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.

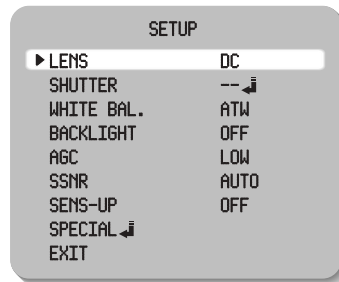
Notes

- 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 (selection)

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.
2. Lens type is fixed DC.



 DC: 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.



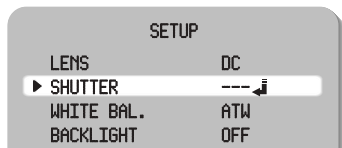
3. Please press the SETUP button if you wish to return to the previous menu.

Camera Operation

SHUTTER (condition and speed control)

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

1. When the SETUP menu is on the screen, please position the arrow to point to 'SHUTTER' by using the DOWN button.
2. 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

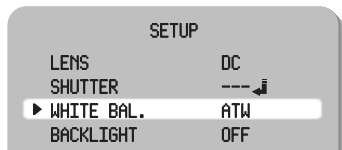


3. Please press the SETUP button when all the settings are complete.

WHITE BALANCE control

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

1. Please position the arrow to point to 'WHITE BAL' 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.



*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

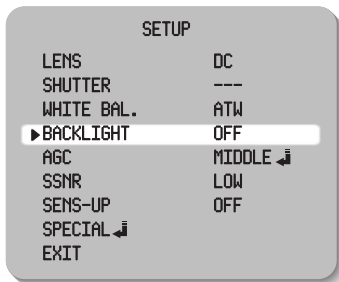
- Under the following conditions the WHITE BALANCE function may not operate properly. In such cases, please select the AWC mode.
 - ① When the object's surroundings have a very high color temperature (Ex. a clear sky and sunset)
 - ② When the object's surroundings are dark
 - ③ If the camera directly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

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.



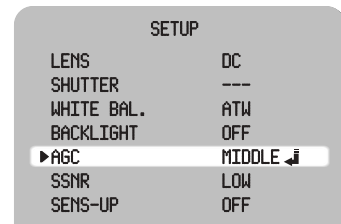
BACKLIGHT ON



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.



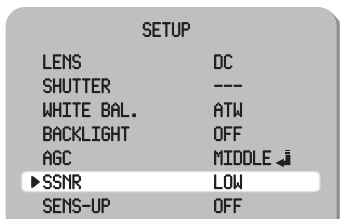
4. Please press the SETUP button when all the settings are complete.

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.

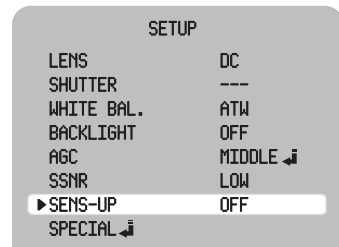
1. Please position the arrow to point to 'SENS-UP' on the SETUP menu by using the UP and DOWN buttons.
2. Please select the mode you wish to operate by pressing the LEFT or RIGHT button.

- 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.



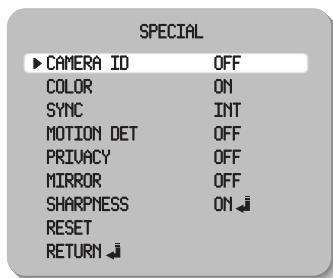
Notes

- 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.



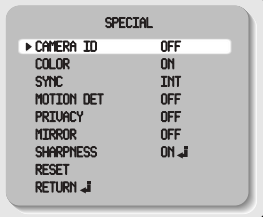
● **CAMERA ID:** If the ID is input, the camera ID appears on the monitor.

- 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.

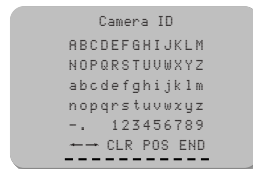


Notes

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

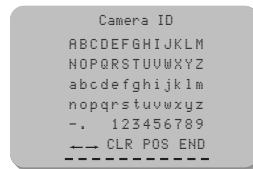


- 3) Please press the SETUP button.



- 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

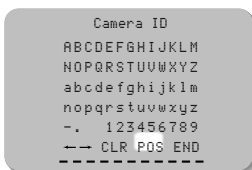
- If the wrong name has been input.....

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.

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



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



- 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.

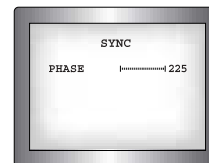


Notes

- 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 : Two SYNCHRONIZATION modes are available INTERNAL and EXTERNAL LINE-LOCK. In LINE-LOCK mode, it synchronizes the video signal between cameras without a synchronous generator. The line-lock synchronization is only used in the areas of 60Hz (NTSC Models) / 50Hz (PAL Models).

- 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

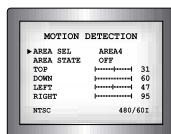
- When the power frequency is 50Hz, you can not use line-lock mode (NTSC Models).
- When the power frequency is 60Hz, you can not use the line-lock mode (PAL Models).
- 'Sync.' mode is fixed to 'INT' in DC 12V input power.

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

- 'MD' is on screen display only words.

● PRIVACY: This modes conceals the areas you do not wish to appear on the screen.

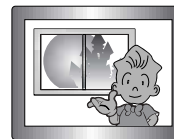
- OFF : Cancels the PRIVACY mode.
- ON : Operates the PRIVACY mode.
- Please press the SETUP button.



- 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 : Shows 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 14) • Please adjust the brightness level of the Auto Iris 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 20)
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"> • Please check the frequency of power supply (60Hz for NTSC, 50Hz for PAL).
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	SOC-4030N	SOC-4030P		
POWER	AC24V ± 10%/ DC12V ± 10% compatible, Max. 3.5W			
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 Super HAD CCD		
S Y N C.	Scanning System	2:1 Interlace		
	Synchronization	INT/LL selectable 0~359 °(Adjustable)		
	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		
	IRIS Range	wide	F1.2 ~ F360	
		tele	F2.1 ~ F360	
E L E C T R I C A L	Resolution	530 TV Lines(Min.)		
	Video Output	1.0Vp-p/75 Ω	1.0Vp-p/75 Ω	
		(Video 0.714Vp-p Sync 0.286Vp-p)	(Video 0.7 Vp-p Sync 0.3 Vp-p)	
	S/N (Y signal)	50 dB (AGC Off/Weight ON)		
	Min. Illumination	0.3 Lux/F1.2 , 0.002Lux/F1.2(SENS-UP X128)		
	COLOR(DAY&NIGHT)	ON/AUTO(Daytime:COLOR, Night time: BW) Selectable		
	White Balance	LOW/MIDDLE/HIGH/OFF Selectable		
	Backlight	1800K ~ 10,500K		
	Compensation	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	ON/OFF(4 Programmable Zone)		
	SSNR	LOW/MIDDLE/HIGH/OFF Selectable (Noise Control)		
MIRROR	OFF/ON (Horizontal Image Inversion)			
Privacy Function	ON/OFF(4 Programmable Zone)			
Sharpness	ON/OFF (Level Adjustable)			
Dimension	63(W) × 58(H) × 164(D)mm			
Operating temperature	-10°C~ +50°C[14°F-122°F]/30~90% RH			
Weight	310g			

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, 641-120	
European Representative Name		
European Representative Address		
Equipment Type/Environment	CCTV Camera	
Model Name	SOC-4030P	
Beginning Serial NO.	S5100001	
Year of Manufacture	2005. 10. 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	<i>Young Taek, SON</i>	Signature
Full Name	YOUNG TAEK SON	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2005. 10. 1	Date