

SAMSUNG

iPOLiS

Anywhere
in Real-time



Day & Night Network Camera SNC-550 User's Manual

Thank you for purchasing a SAMSUNG Ipolis Network CAMERA,
Before attempting to connect or operate this product,
please read these instructions carefully and save this manual for future use.

ENGLISH

iPOLiS

A brand that is integrated into Samsung's network products, ***iPOLiS*** stands for a convenient world (Polis) made safe (Police) through Samsung's superior network performance(Internet protocol). With ***iPOLiS*** products' clear digital images transmitted over the internet, real-time monitoring is possible anywhere with an internet connection. Easy remote control functions and the use of existing networks minimize installation costs. With ***iPOLiS*** , experience a world of convenience connected anytime, anywhere.

Preface

Thanks for purchasing of SNC-550 camera.

This is a user instruction manual for high resolution D&N network camera and the product mentioned here designates the high resolution D&N network camera.

The user who installs and operates the product shall be aware of this manual and other manuals referenced by this manual before the installation and operation and use properly.

This manual and the software and hardware explained here are protected by copyright law.

So the copy, reprint and translation to other languages of a part of or all contents of this user manual without permission of SamsungTechwin Co., LTD are not allowed except for the copy for general use within the scope of copyright law.

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**Note**

If you refer to the enclosed Quick guide and the Manual in the CD, you can learn how to use Network Manager.

Note to User

This machine's electromagnetic waves have been registered as suitable for business purposes; the retailer and consumer should be aware of this registration. If in the case of wrongful purchases, please exchange the product for a home use product.



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.



Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.



FCC Compliance Statement

Caution : Any changes or modification in construction of this device which are not expressly approved the party responsible for compliance could void the user's authority to operate the equipment

Note : This equipment has been tested and found to comply with the 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 cause 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.

Product Warranty and Limitations

The manufacturers of this product do not take any responsibility for this product; therefore, the manufacturer does not authorize the third-party, but allows that retailer is responsible.

The product warranty does not extend to cover accidents, negligence, abuse, or wrongful use for the whole or any part of the product. Additionally, the manufacturer does not provide warranty for any additional parts or affiliations.

The warranty is for one year from the purchase date. During the period, warranty does not extend to malfunction in these areas.

- Malfunction due to user's negligence
- Dismantlement or replacement by the user
- Connection to alternate power source
- Malfunction due to natural disasters (fire, flood, tsunami, etc.)
- Replacement due to wear and tear
- Instability of network

Warning Symbols

Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

**Danger :**

Misuse or wrongful operation of the product may result in death, injury or bring about other fatal results. It indicates absolute caution when operating.

**Caution :**

Misuse or wrongful operation of the product may result in slight injury or damage to the product. It indicates caution when operating.

**Note :**

Indication that the user needs to be aware of certain matters, or will find matters helpful in operating the product.

Warning



Before Setup

- Please set up the proper voltage before connecting to power source.
- Please be sure the power is turned off before setup.

- There is risk of shock or fire; be sure to avoid setup in places with high humidity.
- To prevent shocks, please connect the ground wire.
- 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.

During Use

- When opening the product cover, there is a risk of electric shock. Only a professional should open the cover.
- Please use only in an environment with standard temperature and humidity.
- Please do not plug in multiple products to a power source; it is often the cause of fires.
- Please do not place water or heavy objects on the product; it is often a cause of malfunction.
- Please do not use in a location with propane gas, gasoline or other flammable substances to avoid risk of explosion or fire.
- Please do not touch the power plug with wet hands to avoid electric shock.
- Do not pull on the power plug with too much force; a damaged plug may cause electric shock or fires.
- Don't connect the RJ-45 cable to a terminal by constraint.
- Stop using your camera when you find a malfunction.
If you use your camera around smoke or unusual heat for a

long time,

Fire may be caused.

- Random replacement of built-in battery by other types of batteries may cause explosion. The battery shall be replaced by the same battery. The used batteries shall be disposed carefully because they can cause environment pollutions.
- The battery shall be replaced by the same battery.
- The used batteries shall be disposed carefully because they can cause environment pollutions.

Disassembly and Cleaning

- There is a risk of malfunction, shock or other dangers. Please do not disassemble or attempt to fix the product.
- To prevent malfunction or shock, please do not use a wet cloth or oil-based cleaning product to clean the product exterior. Clean the exterior of the product with a dry cloth.

Caution



- Do not install under extreme temperature conditions
Use only under temperature conditions between -0°C and

+40°C. Provide good ventilation when using in high temperature conditions.

- Do not install under unstable lighting conditions. Severe lighting changes or flickering may hinder normal camera operation.
- 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.
- 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.
- Do not disassemble the camera. If you disassemble the product as you please, a Repair Center doesn't repair it for free.
- Please check the created network place first, before trying to connect to a network.
- Please use only the power adapter that is provided with the product.
- Please check national laws to be sure that using the product for monitoring purposes is not illegal.

Ch1. Overview

1.1. SNC-550 Network Camera Introduction

The SNC-550 is a high-tech network camera that uses MPEG-4 codec technology to allow high compression rates and clear picture quality by allowing for high frame rates to be transmitted through the network.

By using the network, remote connection, monitoring, and control is possible from any location for simple use; additionally, set-up requires only a network.

The SNC-550 Network Camera utilizes embedded software solutions (Embedded Web Server, Embedded Streaming Server, Network Protocol) developed by SamsungTechwin, and guarantees performance and safety while offering various solutions through Internet integration.

1.2. Features

○ High Resolution

By adopting SUPER HAD CCD, this camera provides 530TV line on vertical resolution color, 570TV line on BW (on the basis of VIDEO OUT output)

○ 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(1/50)~1/120,000 seconds.

○ **PRIVACY Function**

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

○ **VIDEO/DC Drive Lens**

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

○ **High Sensitivity**

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

○ **SPOTLIGHT Function**

The SPOTLIGHT function is setting when you want subject in the center of the image exposed correctly, regardless of the back lighting.

○ **Controlled by OSD Menu**

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

○ **Motion Detection**

Once motion is detected, the camera sends an alert signal to the processing unit, which, if used in conjunction with an optional alarm, can provide effective surveillance of your property.

○ **Alarm and interoperation**

Motion Detection function is interoperated with Alarm, still picture can be transmitted via e-mail or FTP.

○ **High data compression ratio**

With high data compression ratio based on MPEG-4, transmission speed is fast and relatively large number of frame can be transmitted on the same network bandwidth.

○ **Adopt PoE(Power Over Ethernet)**

PoE is the function that supplies power in addition to data sending and receiving using LAN cable without separate power connection and it provides convenience for users at installation.

○ **Bi-directional audio and video transmission**

Video and bi-directional audio can be transmitted in real time and recording and playing are possible through exclusive viewer installed on user's PC.

○ **Additional function**

SENS-UP, Horizontal reversal, SHARPNESS, SYNC selection(INT/LL), MPEG-4/JPEG selection function.

Ch2. Production Description

2.1. Components and Accessories

- **High Resolution,
Day&Night Network
Camera**



-
- **User's Manual / CD /
Quick Guide**



-
- **C-Mount adaptor**

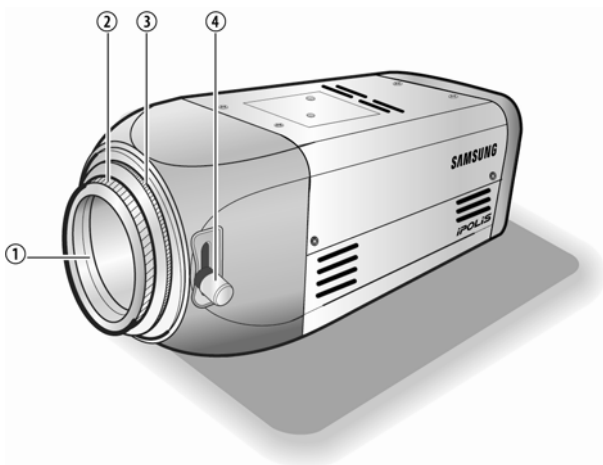


-
- **Auto iris lens
connection plug**



2.2. Section names and functions

2.2.1. Front



① CCD protection cap

Please cover the CCD SENSOR when not using it.

② C-Mount lens adaptor

Please attach the C-Mount lens here.

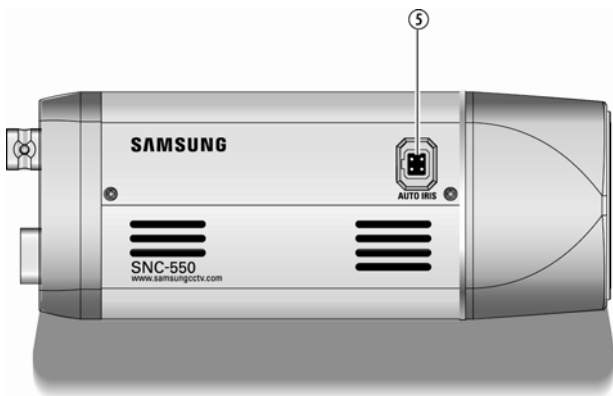
③ CS-Mount lens adaptor

Please remove the C-MOUNT lens adaptor and then attach it.

④ Back Focus adjustment lever

Please used to adjust back focal length.

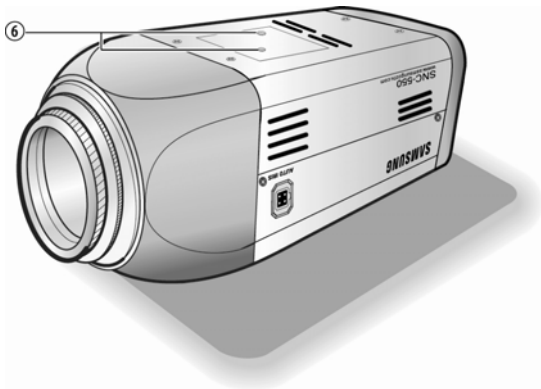
2.2.2. Side



⑤ Auto iris lens connector

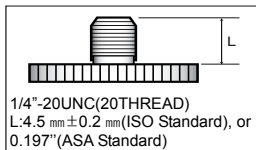
This is the connection terminal for the auto iris lens.

2.2.3. Bottom



⑥ Mounting bracket screw hole

Please use the screw hole when fixing the camera onto the mounting bracket. Please use the clamp screw as specified below.



- ※ The mounting bracket can be separated and attached to the top of the camera.

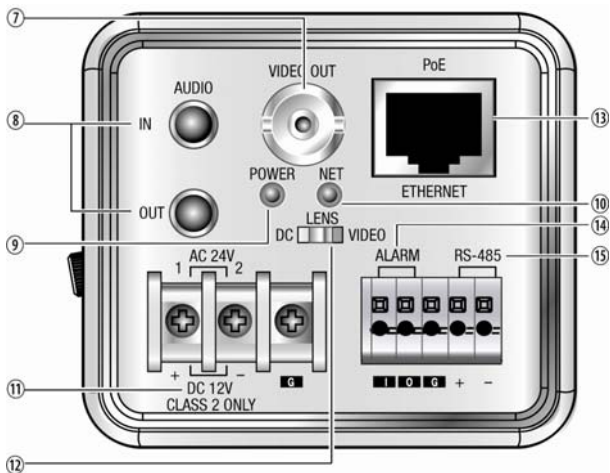
In this instance please do not tighten the screw to a depth of more than 4mm, otherwise serious damage can occur to the inside of the camera.



Caution

This camera package does not include the mounting bracket. Please refer to the user's manual for installation of the mounting bracket.

2.2.4. Back



⑦ VIDEO OUTPUT TERMINAL

Sends video signal and it can be used for setting 'Incidence at image surface' when you install a camera.

⑧ AUDIO IN/ OUT

IN : Input audio signal to the camera and connect to the microphone.

OUT: Output audio signal to the camera and connect to the speaker.

⑨ POWER LED

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

⑩ NETWORK LED

LED lights (green) flash when the camera sends and receives data by the network.

⑪ POWER INPUT TERMINAL

Connects to the power appropriate to each model.

⑫ AUTO IRIS LENS SELECTION SWITCH

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

⑬ ETHERNET

Can connect to 10/100 Mbps internet using the standard RJ-45 connector. Can be powered by using a PoE(IEEE 802.3af) equipment.



Caution

When you connect SNC-550 network camera to a POE equipment, the voltage on the LAN cable may be high. So make a request an installation and separation to the agency.

⑭ ALARM

Alarm Input (I) : Connecting infrared sensors or other external sensor equipment.

Alarm Output (O) : Connecting bright light, or other relay equipment.

⑮ RS-485

Connecting serial cameras that perform Pan/ Tilt/ Zoom functions.

2.3. Recommended PC specifications

Items	Specifications
CPU	Pentium IV 3.0GHz or higher processor
Main Memory	1GB or higher RAM
HDD	More than 120GB when recording
VGA	128M or higher recommended
OS	Window 2000, XP, 2003
Web Browser	Internet explorer 5.5 or higher
Resolution	1024*768 or higher
Network	10/100 Base-T Ethernet
DirectX	9.0C or higher

Ch3. Installation and Network Setup

3.1. Lens Installation

Lenses are sold separately. Lenses such as an auto iris lens, CS-Mount lens and C-Mount lens can be used.



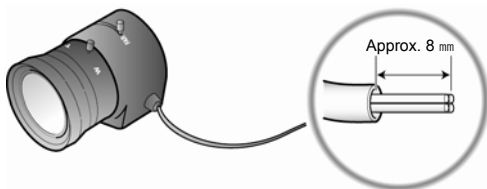
Caution

To effectively realize major performance of this product, the use of DC format auto-iris lens is recommended.

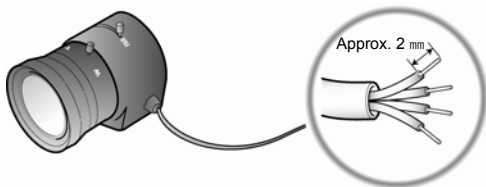
Any foreign objects and fingermarks on the lens can cause inferior image quality in low light level conditions. Please keep the lens clean.

■ When using an auto iris lens

1. Please peel off about 8mm of the outer skin of the auto iris lens cable.

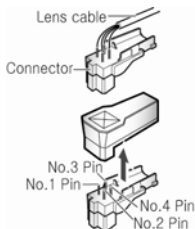


2. Please peel off about 2mm of the outer skin of the insulated conductor inside the lens cable.



3. Please remove the cover of the auto iris lens connection plug and solder the lens cable to the connector pin in the plug.

Pin No	Lens	
	DC	VIDEO
No.1 Pin	Damping -	Red(power)
No.2Pin	Damping +	NC
No.3 Pin	Drive +	White (video signal)
No.4 Pin	Drive -	Black(GND)



4. Please replace the auto iris lens connection plug cover and take off the CCD protection cap, and then attach the auto iris lens to the camera by screwing it in clockwise.
5. Please insert the connection plug that is connected to the auto iris lens cable into the auto lens connector, which is located on the side of the camera.

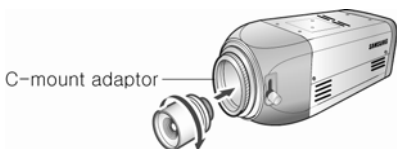


6. Please set the lens selection switch, located on the side of the camera, to DC or VIDEO depending on the type of auto iris lens which is being used.



■ When using a C-Mount lens

Please take off the CCD protection cap and attach the C-Mount lens to the camera by screwing it in clockwise.

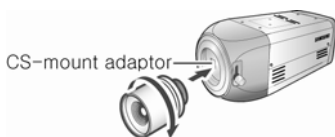


■ When using a CS-Mount lens

1. Please attach the CS-Mount lens to the camera by screwing it in clockwise.



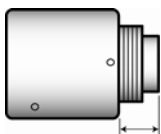
2. Please attach the CS-Mount lens to the camera by screwing it in clockwise.

**Caution**

Please use the specified lens connection parts as shown in the picture below. The use of the wrong sized parts of the wrong size may cause damage to the inside of the camera or result in poor fitting.

Use of a lens which is too heavy affects the balance of the camera and may cause a malfunction. Please use a lens that weighs less than 450g.

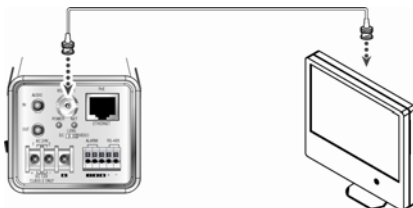
Please select Av mode if possible when adjusting the automatic light control (ALC) of an auto lens. Use of PK mode may cause hunting.



C-mount lens: 10 mm or less
CS-mount lens: 5 mm or less

3.2. Connecting to Monitor

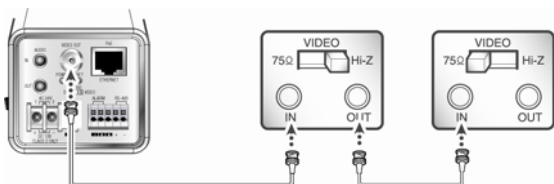
Please connect the video output terminal located on the back of the camera to the monitor.



SNC-550 Network Camera

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.



SNC-550 Network Camera

Intermediate

End monitor

**Caution**

This product is the network camera which transmits video through network, video output terminal is for installation and used to determine imaging range when installing the product.

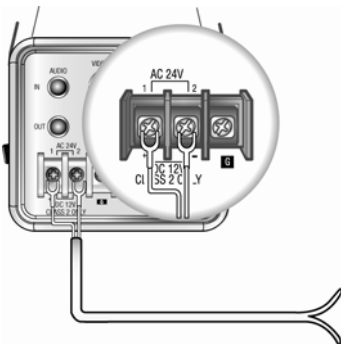
3.3. Connecting to Power

■ AC/DC Power

Both of AC24V and DC12V can be used for the input power of this product.

When using other adaptor not the adaptor (DC12V/4A) provided by the company, make sure that the specification is over AC 24V/1A or DC12V/2A.

■ AC/DC Combined use



In case of SNC-550, as recommended adaptor specification is over AC 24V/1A or DC12V/2A, please use surely the adaptor complying with this specifications.

Table 3-1. 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 (Ω/m)	0.078	0.050	0.030	0.018
Voltage drop(V/m)	0.028	0.018	0.011	0.06

- As shown in the Table3-1, 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±20%
- ※ There may be some deviation in voltage drop depending on the type of wire and the manufacturer



Caution

In case PoE and power adaptor are connected to camera simultaneously, the power authorized first by the product is used.

■ PoE(Power Over Ethernet)

POE(Power Over Ethernet)is the function of LAN related devices, which supports data and power simultaneously with only connection of LAN cable without separate power input cable installation for power excitation to the product.

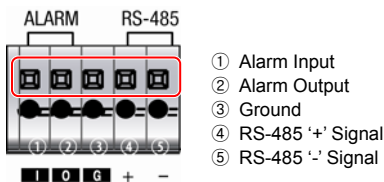
When connecting camera to PoE device, please connect to the

device complying with PoE (IEEE802.3af) specifications. In case non-standard product is used, it may cause performance degradation or trouble.

3.4. Connection to External Control Connector

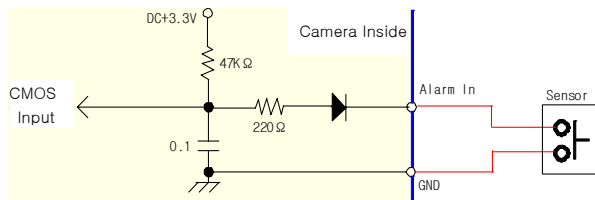
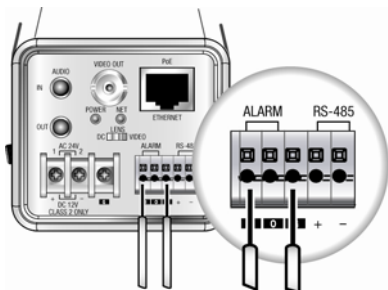
The input order of terminal from left is Alarm input/Alarm output/Ground/RS-485 '+'signal/ RS-485 '-'signal.

When connecting cable, push stripped part of electric wire in while pushing quadrangle button and take hands off from the button then the wire will be fixed.



■ Connecting Alarm Input

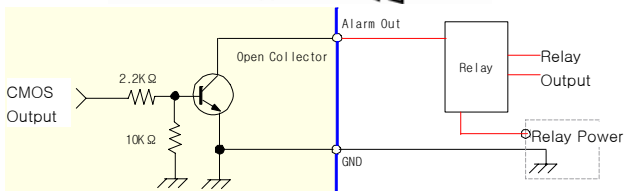
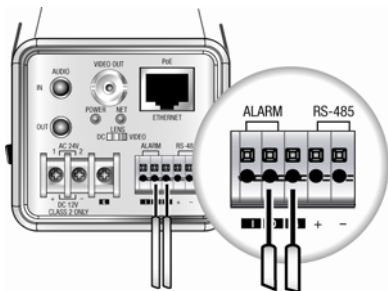
This is the input terminal for external alarm signal, use it by connecting as following.



- In case of selecting Normal Open at setup menu:
In case of contact type, it is short and in case of active type, sensor input acts at “LOW” level.
- In case of selecting Normal Close at setup menu:
In case of contact type, it is open and in case of active type, sensor input acts at high impedance status(open collector).

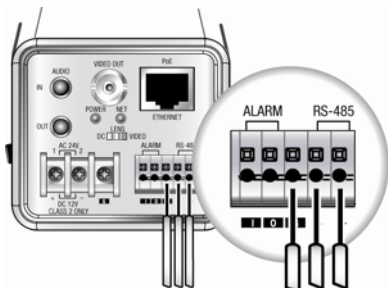
■ Connecting Alarm output

This is the output terminal for external alarm signal, use it by connecting as following.



Alarm output part is Open Collector structure and can be composed by using relay. Rated maximum value is DC +24V, 100 mA.

■ Connecting RS-485

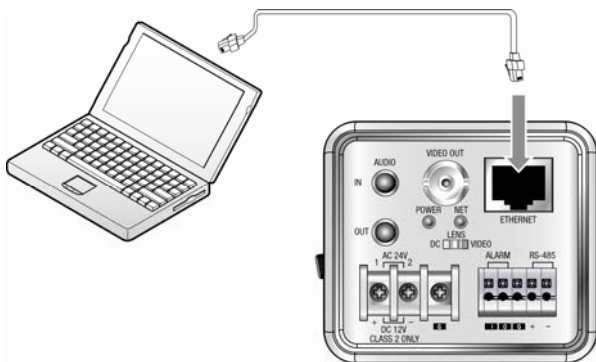


- ※ GND pin of RS485 part may be not to be connected.
- ※ It may be effective when communication is not working properly.

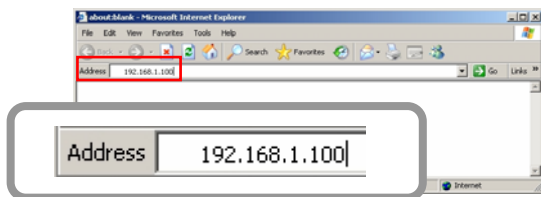
3.5. Network configuration and connection method using Web page

Use when there is one SNC-550 network camera to be installed.

1. Please connect user's PC to SNC-550 network camera using cross cable.



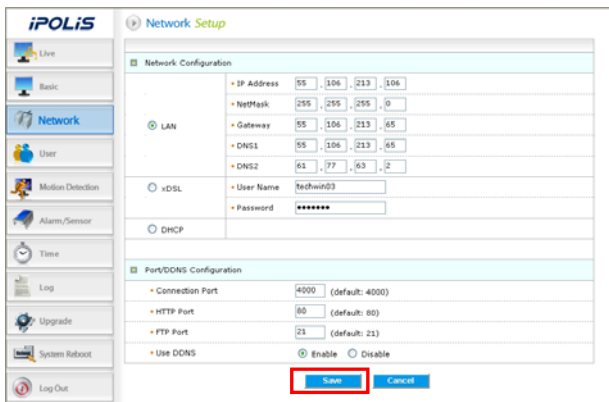
2. Please launch a Web browser on user's PC and enter [192.168.1.100] in the URL address field and push <Enter> button.
Connect to Webviewer login window of SNC-550 network camera.



- Please login with administrator's authorization and move to 'Network' page.(Default value for administrator login is ID: admin, PW:11111111)



- Please configure according to the network environment where SNC-550 network camera will be installed and push <Save> button to save the configuration.



Ch4. How to Use Web Viewer

4.1. How to Use Web Viewer

4.1.1. Login

To connect the login page, enter IP address of the camera on a internet Web browser and push enter key.



Enter user ID and password and push <Login> button, then it move to related Web page. (Default value is ID: admin, PW: 11111111)

If you click <Guest> button, it move to WebViewer page under the Guest authenticated status. In this case, administrator should permit the Guest connection.



Note

If you logged in first as a administrator mode, please change the password of administrator. It can prevent from other users connection to administration page.

4.1.2. Web Viewer screen

Web Viewer screen is composed of menu area for camera/video configuration and screen area for displaying input video from camera.



■ Controls



Flip Image

Vertical reversal of channel screen



Stretch Image

When selecting resolution with Half D1 and CIF, stretches channel screen to resolution D1 size.



Save Image

Saves channel screen to 'JPEG file'.



Quad

Converts to 4 split screens (applied only to 4 channel server).

Compression	Video compression mode (the mode of compressing video) - MPEG, JPEG
Resolution	Video resolution (the size of video screen transmitted) - NTSC : D1(704x480), Half D1(704x240), CIF(352x240) - PAL : D1(704x576), Half D1(704x288), CIF(352x288)
Frame Rate	The number of maximum video frame transmitted for each second. - 1, 5, 10, 15, 20, 25, 30
Quality	Quality Configures video quality - Very High, High, Normal, Low, Very Low



Pause

Stops video for a while.



OSD

Displays related information.



Displays the title



Removes the title



Deinterlace

On/off function of Deinterlace.



Note

Deinterlace is a function to adjust the video quality softly by eliminating the border line which was made by an interlace function. The interlace function draws an even line and an odd line of the Image one after the other.



Camera Setup

Displays OSD control button of camera.



Camera OSD control button is displayed



Camera OSD is displayed



Day&Night

Day&Night configuration function (Color, B/W configuration)



PTZ Control

PTZ control function

Instruction for Camera OSD control button**<↑>, <↓> button**

Moves selection displaying arrows up and down on camera OSD menu.

<←>, <→> button

Changes configuration of selected field on camera OSD menu.

<Set> button

Displays camera OSD or moves to upper/lower menu of selected field.

<Exit> button

Terminates camera OSD.

- ※ For configuring the function and detail operating method of SNC-550 network camera, refer 'Ch56. How to Operate Camera'.

4.2. Using Administration page

4.2.1. Live

Please Move to Web Viewer page



[Web Viewer live screen]

4.2.2. Basic

Configures basic information for camera.

The screenshot shows the iPOLiS web interface. On the left is a navigation menu with options: Live, Basic, Network, User, Motion Detection, Alarm/Sensor, Time, Log, Upgrade, System Reboot, and Log Out. The main content area is divided into two sections:

- Video/Audio Setup:**
 - Compression Type: MPEG JPEG
 - Video Size: NTSC PAL (D1)
 - Video Quality: Very High
 - Video Frame Rate: 10fps
 - Video Channel: Channel 1
 - Audio-In Channel: Channel 1
 - Audio-Out Channel: Use
 - Max User Count: 25
 - Mic. Sensitivity: High Low
 - RS-485 Termination: Resistance On Resistance Off
- Product Information:**
 - Model: SNC-550
 - Mac Address: 18-30-24-1a-28-36
 - Camera Name: N-Design
 - Location: Location
 - Description: Description
 - Memo: Memo

At the bottom of the Product Information section are 'Save' and 'Cancel' buttons.

Video/Audio Setup

Item	Description
Compression	Video compression mode (Compression mode of video in the camera)
Video Size	If the type of installed camera (NTSC/PAL) is selected, then the size of screen on the camera becomes selectable.
Video Quality	Selects the quality of video screen. In case of low speed internet, lower the video quality to see seamless video.
Video FrameRate	Configures the number of transmitted frame per second in the camera.

Item	Description
Video Channel	Selects the video channel to be used in the camera.
Audio-In Channel	Selects whether to use the audio input channel in the camera or not.
Audio-Out Channel	Selects whether to use the audio output in the camera or not.
Max User Count	Configures the number of users who can be connected to the camera through the network(1~20 persons)
Mic. Sensitivity	Audio amplifying function onfigures Low for the microphone which has amplifying function and High for the microphone which has no amplifying function. (In case of Line-In signal, configure Low)
RS-485 Termination	Terminating function When multiple cameras are connected via 485, the camera in the end should be terminated to prevent signal loss or incorrect operation.

Product Information

Item	Description
Model	Displays model name of the camera.
Mac Address	Displays MAC Address of the camera.
Camera Name	onfigures name of the camera, it help to classify several cameras.
Location	The location of the installed camera can be entered.
Description	Additional description related to the camera can be entered.
Memo	The contact of camera administrator can be entered.

4.2.3. Network

Configures network information of the camera.

Network Configuration

According to the user's network environment, it is classified into LAN, xDSL, DHCP.

Item	Description
LAN	In case the camera is connected to the local network or xDSL with a static IP address, configure network information to be assigned to the camera.
xDSL	In case of xDSL with a dynamic IP address, enter password in UserName and Password field.
DHCP	This case is selected in case of using IP sharing box/ cable modem.

Port/DDNS Configuration

Item	Description
Connection Port	This controls communication with camera. (Default : 4000)
HTTP Port/ FTP Port	This helps to connect to web page or FTP server. (Default : http=80, ftp=21)
Use DDNS	Choose whether you use DDNS server. IP address for dynamic IP is continuously changed, but if you use DDNS, you can connect server regardless of variable IP address.

4.2.4. User

This describes password change for administrator or user registration.

iPOLiS User Setup

Administrator Password Change

- Type:
- Re-Type:

Guest Setup

- Guest Access: Permission

Current Users

User Name	Password	Control Level	Use
aaaaaaa	*****	<input type="checkbox"/> Video <input checked="" type="checkbox"/> Controls <input checked="" type="checkbox"/> Audio-In	<input checked="" type="checkbox"/>
bbbbbbb	*****	<input type="checkbox"/> Video <input checked="" type="checkbox"/> Controls <input checked="" type="checkbox"/> Audio-In	<input checked="" type="checkbox"/>
ccccccc	*****	<input type="checkbox"/> Video <input checked="" type="checkbox"/> Controls <input checked="" type="checkbox"/> Audio-In	<input checked="" type="checkbox"/>
ddddd	*****	<input type="checkbox"/> Video <input checked="" type="checkbox"/> Controls <input checked="" type="checkbox"/> Audio-In	<input checked="" type="checkbox"/>

0 Controls = Pan / Tilt / Camera / Audio-Out / Alarm-Out

Item	Description
Administrator Password Change	Change password of administrator
Guest Setup	User clicks 'Guest' button to decide whether allowing guest to connect Main Viewer.
Current User	You can register new user or delete, and set up user's authority.

※ Set up user authority

User's authorities set up at 'Current User' are as follows.

Category	Description
Video	Use video related setup function (Compression, Resolution, Framerate, Quality)
Control	Pan, Tilt, Zoom, Audio output, Alarm output
Audio	Audio Input
USE	Whether relevant account is used (If not checked, not allowed log-in)

- **Example 1)** In case control function is limited (Do not check Controls box)



- ※ Pan, tilt, zoom, audio output, alarm output function icon is inactivated

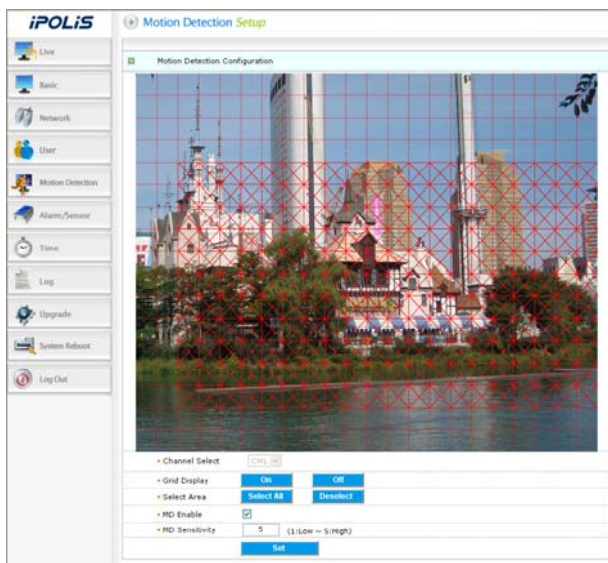
- **Example 2)** In case video function is limited (Do not check Video)



- ※ Compression, Resolution, Framerate, Quality set up icon is inactivated.

4.2.5. Motion Detection

This sets up motion detection function of camera.



Item	Description
Grid Display	Basic grid, used to choose area on the screen, is displayed or hidden.
Select Area	When selecting motion detection area, click <Select All> button to select all areas, or click <Deselect> button to cancel the selected area.
MD Enable	Decide whether you use motion detection function.
MD Sensitivity	Setting up sensitivity to detect motion to adjust input video by situation. You can select 1-5, and 5 is the highest.

4.2.6. Alarm/Sensor

This sets up necessary information when using alarm function by attaching sensor to camera.

iPOLiS

- Live
- Basic
- Network
- User
- Pan/Tilt/Zoom
- Motion Detection
- Alarm/Sensor
- Time
- Log
- Upgrade
- System Reboot
- Log Out

Alarm/Sensor Setup

Digital In(Sensor) Setup

- Sensor No.
- Sensor Type

Digital Out(Alarm) Setup

	Sensor1	MD
Alarm	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Duration	<input type="text" value="5 sec"/>	
FTP	<input type="checkbox"/>	<input type="checkbox"/>
E-Mail	<input type="checkbox"/>	<input type="checkbox"/>

FTP/E-mail Setup

FTP Setup

- FTP Server Name
- Home Directory
- User ID
- User Password

E-Mail Setup

- Recipient E-mail Address 1
- Recipient E-mail Address 2
- SMTP Server Name
- User ID
- User Password
- Mail Subject (English Only)
- Mail Body (English Only)

Alarm/Sensor Setup

◇ Digital In Setup

Item	Description
Sensor Type	Types of sensors are 'Normal open' and 'Normal close.' This selects up type of connected sensor.

◇ Digital Out Setup

Item	Description
Alarm	Set up Alarm Out responding when event is recognized by connected sensor (Sensor 1) or Motion Detection (MD)
Duration	Set up time to operate relay. It means the period from the time when sensor detects event to the time when relay is released.
FTP	In case event occurs by sensor (Sensor 1) or Motion Detection (MD) on the screen, decide whether transferring related information to FTP.
E-mail	In case event occurs by sensor (Sensor 1) or Motion Detection (MD) on the screen, decide whether transferring related information by e-mail.

E-mail/FTP Setup

Set up FTP server and e-mail information to which related information is transferred in case alarm occurs.

Item		Description
Mode		Select media for data transfer.
FTP	Server Name	Enter domain or IP address of FTP server.
	Home Directory	Set up home directory to save relevant data at FTP server.
	User ID	Enter ID to connect FTP server.
	User Password	Enter PW to connect FTP server.

Item		Description
E-mail	Recipient E-mail Address 1 Recipient E-mail Address 2	You can designate up to two e-mail address receiving data when alarm occurs.
	Server Name	In case you use outside e-mail server, enter the name of the outside e-mail server.
	ID	Enter ID to connect the outside e-mail server.
	Password	Enter PW to connect the outside e-mail server.
	Mail Subject	Enter the subject of mail to be transferred.
	Mail Body	Enter the body of mail to be transferred.

**Note**

If motion is detected, the contents transferred by e-mail or to FTP are varied according to the set-up of 'Video Compression' at Admin page (Basic).

- MPEG : Video length is set by 'Duration' of 'Digital Out Setup'.
File extension is 'ste', you can play this by supplied Player.
- JPEG : JPG type image file attached.

4.2.7. Time

Current Time

Item	Description
Date	Current setup date displayed
Time	Current setup time displayed

Time Setup

Item	Description
Set Manually	Adjust time manually.
Time Server	Set up address of time server for Server 1 - 5.

4.2.8. LOG

Recent activities made for camera are displayed as log.

The screenshot displays the 'iPOLiS Log View Setup' interface. On the left is a vertical sidebar with icons and labels for various system functions: Live, Basic, Network, User, Motion Detection, Alarm/Sensor, Time, Log (highlighted in blue), Upgrade, System Reboot, and Log Out. The main content area is titled 'Log View Setup' and features a 'Lines' input field with the value '20', a 'View' button, and a 'Clear' button. Below these controls is a scrollable text area containing a list of log entries. Each entry includes a timestamp in brackets followed by a description of the event, such as 'Channel closed', 'User Connection', or 'Admin Login OK'. At the bottom of the log area, there is a checkbox labeled 'Send Log to Administrator E-mail'.

Item	Description
Lines	Set up number of lines of the list.
View	Log is viewed with number of lines you set up most recently.
Clear	Delete logs.

4.2.9. Upgrade

Upgrade program of SNC-550 network camera.

The screenshot shows the iPOLiS web interface. On the left is a navigation menu with icons and labels for: Live, Basic, Network, User, Motion Detection, Alarm/Sensor, Time, Log, Upgrade, System Reboot, and Log Out. The main content area is titled 'System Upgrade Configuration' and contains two sections:

- System Upgrade Configuration:** This section has two rows. The first row is for 'Firmware', with an empty text input field, a '찾아보기...' (Find) button, and a 'Send' button. The second row is for 'WebPage', also with an empty text input field, a '찾아보기...' button, and a 'Send' button.
- Factory Reset Setup:** This section has one row for 'Factory Mode', with a 'Reset' button.

System Upgrade Configuration.

Item	Description
Firmware	Upgrade firmware of SNC-550 network camera.
WebPage	Upgrade webpage of SNC-550 network camera.

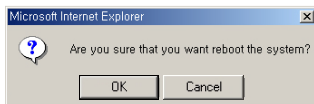
Factory Mode Setup

If you click <Reset> button, server is returned to initial value when shipped from the factory after confirmation procedure by administrator.

4.2.10. System Reboot

The screenshot shows the iPOLiS administration interface. On the left is a sidebar with navigation buttons: Live, Basic, Network, User, Motion Detection, Alarm/Sensor, Time, Log, Upgrade, System Reboot, and Log Out. The main area is titled 'Log View Setup' and contains a 'Lines' input field set to '20', a 'View' button, and a 'Clear' button. Below this is a scrollable log window showing entries such as 'Channel closed', 'User Connection: Admin Login OK', and 'User Connected IP = 55.121.214.126'. A 'Send Log to Administrator E-mail' checkbox is at the bottom. A 'Microsoft Internet Explorer' dialog box is open in the foreground, displaying a question mark icon and the text 'Are you sure that you want reboot the system?' with 'OK' and 'Cancel' buttons.

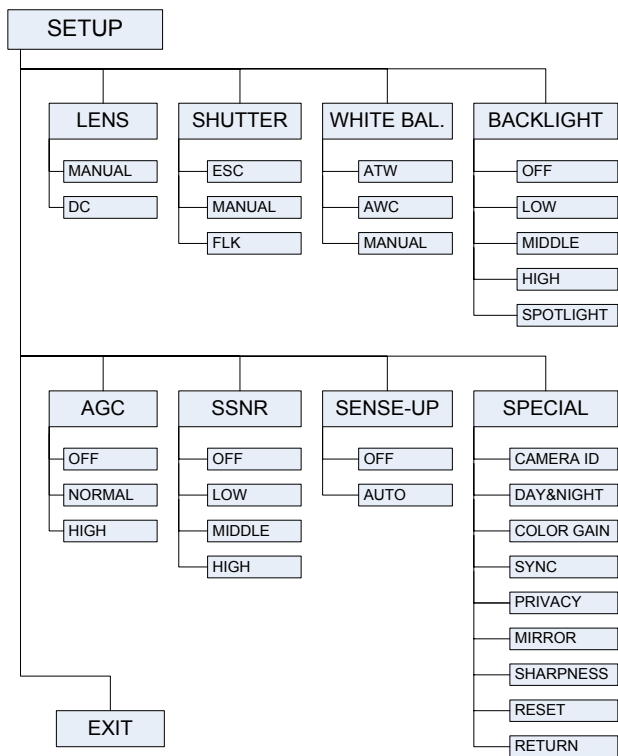
Server is rebooted after confirmation procedure of administrator.



Click <OK> button to reboot server.


Ch5. How to Operate Camera

5.1. Setup MENU



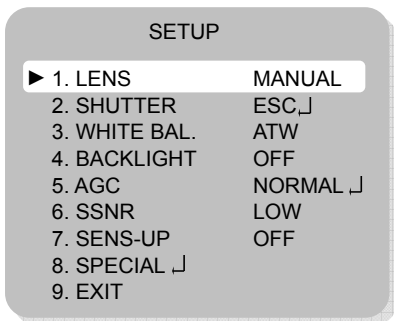
5.2. How to Set Up Functions

Use OSD button displayed on Web Viewer screen to set up functions.

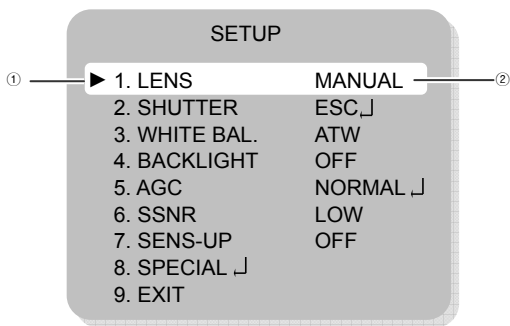
-  : OSD button is popped up in Web Viewer.



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.



- ① Select any function you wish to operate by using the UP and DOWN buttons.
 - ② 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.

**Caution**

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.

5.2.1. Lens selection (LENS)

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. Please select the type of the lens you wish to use by pressing the LEFT or RIGHT button.

SETUP	
▶ 1. LENS	MANUAL
2. SHUTTER	ESC↵
3. WHITE BAL.	ATW

- DC/VIDEO: Auto iris lens selection



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. (Please refer to the picture on page 21)

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

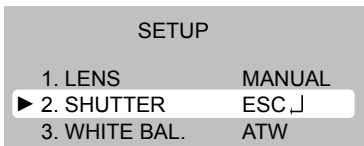


- MANUAL : Manual lens selection
3. Please press the <SETUP> button if you wish to return to the previous menu.

5.2.2. SHUTTER (condition and speed control)

Auto or manual control can be selected.

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.
 - **ESC**: Auto control of the shutter speed can be achieved. When ESC mode is on, the speed is controlled automatically according to the brightness of the screen.
 - **MANUAL**: The shutter speed can be controlled manually.



3. Please select 'MANUAL' mode if you wish to adjust the shutter manually.
You can select speed from '1/60' to '1/120,000'sec (NTSC Models), '1/50' to '1/120,000'sec (PAL Models).
4. Please press the <SETUP> button when all the settings are complete.

**Caution**

- When selecting DC/VIDEO lens, the shutter speed is fixed at 1/60.
- While using the internal synchronous system, if the shutter setting is on 'ESC' and the camera is directly facing a bright fluorescent light, the image on the screen can be adversely affected. Therefore please choose the installation location with care.
- When 'MANUAL' mode is on, the SENS UP function does not operate.

5.2.3. WHITE BAL. (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.

SETUP	
1. LENS	MANUAL
2. SHUTTER	ESC,↓
▶ 3. WHITE BAL.	ATW
4. BACKLIGHT	OFF

- ※ 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.



Caution

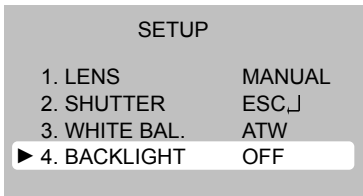
Under the following conditions the WHITE BALANCE function may not operate properly. In such cases, please select the AWC mode.

- 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.
-

5.2.4. 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.



▪ SPOTLIGHT

When the SPOT LIGHT is illuminated under the restricted area such as entrance of the APT parking lot or gas station, it exposes the number plate of the automobile accurately and the efficient watch does to be possible.

– Day Mode:

The BLC function accomplishes by SPOTLIGHT window which was set in standard.

– B/W Mode:

If both sides of the SPOTLIGHT window be thrown bright light, monitor screen showed up the SPOTLIGHT window. It is



INCIDENT SPOTLIGHT



<SPOTLIGHT ON>

possible to a subject in the center of the image exposed correctly.

**Caution**

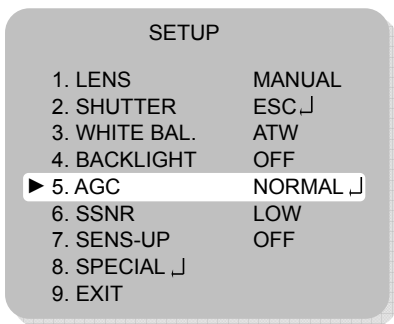
Under ordinary circumstances, 'SPOTLIGHT' may not be operated unstably.

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

**BACKLIGHT ON****BACKLIGHT OFF**

5.2.5. 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.
 - NORMAL: The gain increases or decreases within the range of 6dB ~ 30dB.
 - OFF: The gain is fixed at 6dB.



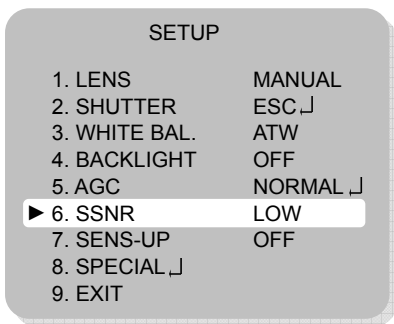
3. Please press the <SETUP> button. The BRIGHTNESS can be adjusted within the range of 1~70.
4. Please press the <SETUP> button when all the settings are complete.



5.2.6. 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.

5.2.7. SENS-UP (Low Illuminance)

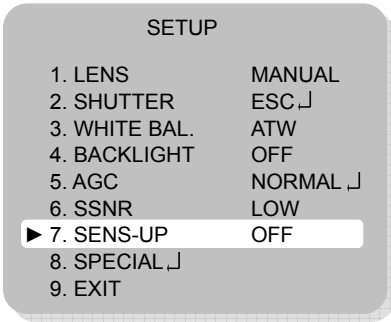
SENS UP helps maintain a bright, clear screen image by automatically detecting changes in the level of light in low light level conditions.

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

**Caution**

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

When AGC is turned off, SENS UP does not operate.



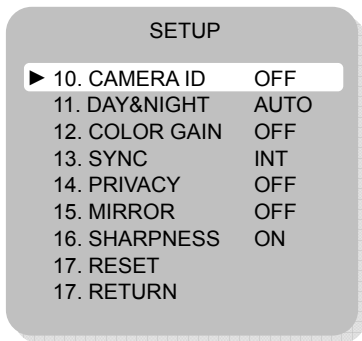
- Please press the <SETUP> button when all the settings are complete.

**Caution**

- 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.

5.2.8. 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.

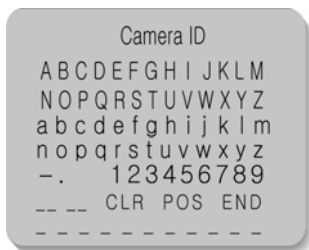


- CAMERA ID: If the ID is input, the camera ID appears on the monitor.
 - Please position the arrow to point to 'CAMERA ID' by using the UP or DOWN button.
 - Please select 'ON' by pressing the LEFT or RIGHT button.

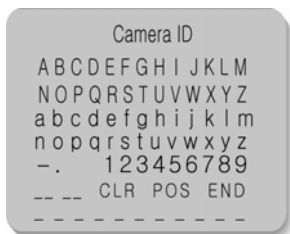
**Caution**

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

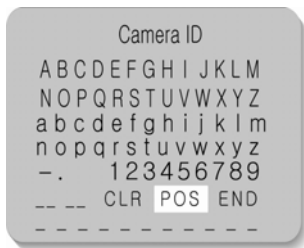


- Select an ID from A~Z, a~z, 0~9 by using the UP, DOWN, LEFT and RIGHT buttons.
- Please lock in the letters by using the <SETUP> button.
- When the letter is locked in, the cursor moves to the next space.
- Please repeat the above to input the ID.

**Caution****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.

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.

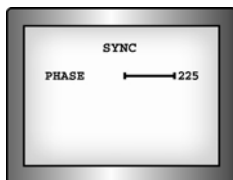
- DAY&NIGHT (ICR TYPE) : Select from COLOR, BW, AUTO or EXT modes.
 - AUTO: According to the input luminance level, IR Cut Filter is automatically switched to the appropriate mode for daytime or night-time. The COLOR mode is operated for daytime, and it converts to BW mode for night-time.
 - COLOR: Video is always showed in color mode.
 - B/W: Video is always showed in B&W mode.
If you click <SETUP> button, menu which can turn on/off BURST signal appears.
You can keep or remove BURST signal with ON/OFF
 - EXT: It enables user to control DAY&NIGHT mode by external input signal. (Refer to page 32)



**Caution**

- If AGC is OFF, you can't select AUTO mode and B/W mode.
 - When selecting BW mode, AGC is fixed to HIGH mode.
 - It may be out of focus when using Infrared rays lighting compared to general lighting.
-

- **SYNC:** Two SYNCHRONIZATION modes are available INTERNAL and EXTERNAL LINELOCK. 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

L/L: External line-lock synchronization

- If you choose 'LL', you can adjust the desired phase. Press the <SETUP> button.
 - You can adjust the desired phase from 0 to 359.
-

**Caution**

- 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.
-

- **PRIVACY:** Mask privacy area 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 OFF



MIRROR ON

- **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.

5.2.9. EXIT

Saves all the setting menus and then exits.

Ch6. Troubleshooting

If there are problems in operation, please refer to the items below. If the problem persists, please contact the agent you purchased this product from.

Problem	Solution
<p>Nothing appears on the screen.</p>	<ul style="list-style-type: none"> ▪ Please check the power connection. ▪ Please check the video signal line connection. ▪ Please check and make sure that the auto lens switch is set to DC (VIDEO) when using a DC(VIDEO) lens. ▪ Open MS-DOS window to check whether SNC-550 network camera is connected to network. <p>※ In case of ping 192.168.0.100, replace it with IP address set up at server</p>
<p>The video image is not clear.</p>	<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. ▪ Please readjust the back focus of the camera.
<p>The screen is dark.</p>	<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. ▪ Please check if an auto iris lens is being used and adjust the brightness level.

Problem	Solution
<p>There is a problem with the camera operation. The camera surface is too hot and black stripes appear on the screen.</p>	<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.
<p>The MOTION DETECTION function is not working.</p>	<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.
<p>Colors are not quite right.</p>	<ul style="list-style-type: none"> ▪ Please check the 'WHITE BAL' setting. (Please refer to page 67)
<p>The screen is flickering.</p>	<ul style="list-style-type: none"> ▪ Please check if the camera is facing directly into sunlight or fluorescent light. ▪ Please check if an auto iris lens is being used. ▪ Please check the connection of the lens connector cable.
<p>L/L mode isn't able to be selected.</p>	<ul style="list-style-type: none"> ▪ Have you connected your camera to DC power source? Connect it to AC power source. ▪ Please check the frequency of power supply (60Hz for NTSC, 50Hz for PAL).
<p>DAYNIGHT(Auto) mode is not working.</p>	<ul style="list-style-type: none"> ▪ Please check if the AGC menu is set to the OFF position.

Problem	Solution
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 if the SHUTTER menu is set to MANUAL mode.▪ Please check the limit of SENS-UP AUTO mode.
Audio is not working	<ul style="list-style-type: none">▪ Please check the audio is selected from admin page.▪ Please check speaker volume from the viewer.▪ In case input sound through microphone at Viewer is not outputted through Audio Out of server, please check whether Audio Out channel is selected at admin page. Or check whether microphone is available at Viewer.▪ Please check audio driver is working in user's PC.
Video is stopped	<ul style="list-style-type: none">▪ Please check whether network cable of SNC-550 network camera is correctly connected▪ In case user uses hub or IP router, check whether these network equipments are working properly.▪ Open MS-DOS window and check whether SNC-550 network camera is connected to network.

Problem	Solution
No image from web viewer	<ul style="list-style-type: none">▪ Click 'refresh (shortcut; F5) ' button at browser to recall the page▪ Check whether power of camera and network cable is properly connected.▪ Check whether computer is connected to network.▪ If you use hub or router, check whether such equipments are properly operated. (Note: Open MS-DOS window and enter network ID of camera at ping 192.168.1.100,)▪ Connect to Admin page to check whether video output is selected.
Image transferred to FTP or by E-mail cannot be viewed	<ul style="list-style-type: none">▪ Video may not be viewed since Divx codec is not installed in user's PC. Divx codec can decode video compressed with MPEG4. Download and install the latest Divx codec, and check video. http://www.divx.com/divx/download

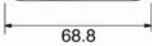
Specifications

Items	SNC-550N	SNC-550P
Sensor	1/3 inch, Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2:1 Interlace	
Synchronization	Internal / Line Lock	
Frequency	H : 15.734KHz / V : 59.94 Hz	H : 15.625KHz / V : 50.00 Hz
Video Output	1.0Vp-p / 75Ω (Video 0.714 Vp-p Sync 0.286 Vp-p)	1.0Vp-p / 75Ω (Video 0.7 Vp-p Sync 0.3 Vp-p)
Resolution	530 Lines(Color) / 570 Lines(BW)	
S/N (Y signal)	50 dB (AGC Off / SHARPNESS Off)	
Min. Illumination	COLOR: 0.3 Lux @F1.2, 0.002 Lux (Sens-up 128X) B/W: 0.01 Lux @F1.2, 0.0007 Lux (Sens-up 128X)	
O.S.D	Built-in	
Day & Night	Color, B/W, AUTO (Filter Auto Change), EXT (External Day & Night Mode Control Capability via Terminal on the Back Panel)	
Gain Control	NORMAL / HIGH / OFF : Selectable	
SSNR	LOW / MIDDLE / HIGH / OFF : Selectable	
White Balance	ATW/AWC/Manual (1,800°K ~ 10,500°K)	
Back Light Compensation	LOW / MIDDLE / HIGH / SPOT / OFF : Selectable	
Electronic shutter speed	AUTO: (1/60 ~ 1/120,000sec) MANUAL: (X128 ~ X2, 1/60 ~ 1/120K)	AUTO: (1/50 ~ 1/120,000sec) MANUAL: (X128 ~ X2, 1/50 ~ 1/120K)
Sens-Up	AUTO / OFF(selectable limit X2 ~ X128)	
Motion Detection	ON / OFF	
Mirror	ON / OFF	
Privacy	ON / OFF (4 Programmable Zone)	
Sharpness	ON / OFF (Level Adjustable)	
IRIS Control	DC / Video IRIS Lens	
Lens Mount	CS Mount (Easy Focus Type) C Mount is mountable by using adaptor	

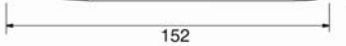
Camera

Items		SNC-550N	SNC-550P	
Network	Image Resolution	NTSC : 704 x 480(D1), 704 x 240(HD1), 352 x 240(CIF) PAL : 704 x 576(D1), 704 x 288(HD1), 352 x 288(CIF)		
	Compression	MPEG4 / JPEG Selectable		
	Image Compression Step	5Steps (Very Low, Low, Middle, High, Very High)		
	Frame Rate	NTSC/PAL : Max 30/25 frame/sec		
	Audio Format	Both direction audio, 8KHz ADPCM		
	Ethernet	10/100Mbps		
	Protocols	HTTP, TCP/IP, FTP, SMTP, DHCP, DDNS		
	Dynamic IP	xDSL, DHCP supported		
	DDNS	DDNS supported		
	Max. User	20 Users		
	PTZ control	RS-485		
	S/W	Install Program	Supplied	
		IP Installer	Supplied	
PC Viewer		Supplied		
Web Server Web ActiveX Control		Supplied		
General	Back Panel Spec.	RJ-45 Connector : Ethernet / PoE 5 pin terminal block : RS-485, Alarm In/Out, GND Video Out (for installation) Audio In/Out		
	Power Source	AC24V±10% / DC12V±10% / PoE		
	Power Consumption	About 7W		
	Operating Temperature/Humidity	0℃ to +40℃ / 30% to 80% RH		
	Dimension	152mm(L) × 68.8mm(W) × 60.4mm(H)		
	Weight	570g		

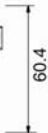
Dimension



68.8



152



60.4



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