

SCC-C4253
SCC-C4353
SCC-C4255
SCC-C4355

Power Zoom Camera

User Manual

imagine the possibilities

Thanks you for purchasing this Samsung product.
To receive a more complete service, please visit
our website
www.samsungsecurity.com

SAMSUNG

overview

	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.		



This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

WARNING

1. Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
2. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
3. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.
4. Securely plug the power cord into the power receptacle. Insecure connection may cause fire.
5. When installing the camera, fasten it securely and firmly. The fall of camera may cause personal injury.
6. Do not place conductive objects (e.g. screwdrivers, coins, metal parts, etc.) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.

2_ overview



7. Do not install the unit in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
8. If any unusual smells or smoke come from the unit, stop using the product. In such case, immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
9. If this product fails to operate normally, contact the nearest service center. Never disassemble or modify this product in any way. (SAMSUNG is not liable for problems caused by unauthorized modifications or attempted repair.)
10. When cleaning, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

CAUTION

1. Do not drop objects on the product or apply strong blows to it. Keep away from a location subject to excessive vibration or magnetic interference.
2. Do not install in a location subject to high temperature (over 50°C), low temperature (below -10°C), or high humidity. Doing so may cause fire or electric shock.
3. If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
4. Remove the power plug from the outlet when there is a lighting storm. Neglecting to do so may cause fire or damage to the product.
5. Keep out of direct sunlight and heat radiation sources. It may cause fire.
6. Install it in a place with good ventilation.
7. Avoid aiming the camera directly towards extremely bright objects such as sun, as this may damage the CCD image sensor.
8. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
9. The Mains plug is used as a disconnect device and shall stay readily operable at any time.
10. When using the camera outdoors, moisture may occur inside the camera due to temperature difference between indoors and outdoors. For this reason, it is recommended to install the camera indoors. For outdoor use, use the camera with built-in fan and heater.

overview

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received including interference that may cause undesired operation.

Caution

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of 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.



IC Compliance Notice

This Class A digital apparatus meets all requirements of the Canadian Interference.-Causing Equipment Regulations of ICES-003.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus

CONTENTS

OVERVIEW

2

- 5 Important Safety Instructions
- 6 Contents
- 7 Features
- 8 What's Included
- 8 At a Glance

INSTALLATION & CONNECTION

12

- 12 Preparing Installation
- 12 Connecting the Cables

SETUP

15

- 15 Main Menu
- 16 Profile
- 18 Camera Set
- 27 Intelligent Video
- 29 Privacy Zone
- 30 Preset
- 31 Other Set
- 32 Communication
- 32 System Info
- 33 Language

APPENDIX

35

- 35 Shortcut Keys
- 36 Specifications

FEATURES

- With the state-of-the-art digital signal processing technology, full digital image processing and special algorithm of 600-line high resolution implemented.
- High Sensitivity: It implements images of high sensitivity using the up-to-date Super-HAD IT CCD(SCC-C4253/C4353)/ExView-HAD PS CCD(SCC-C4255/C4355).
- VPS(Virtual Progressive Scan): This is an advanced technology that reproduces a sharp progressive image. This is appropriate to high quality recording and file transfer via the Internet. (SCC-C4255/C4355 only)
- High performance surveillance camera, equipped with x43 zoom lens and digital zoom IC, enabling monitoring up to 688 times
- WDR extends the contrast range as it takes a picture of each of dark and bright areas before compositing the two, which is useful if you take a picture of windows inside a building. Namely, it improves the picture quality of the outdoor scenery as well as indoor.(SCC-C4255/C4355 only)
- Low Illumination: It uses the digital signal technologies such as low illumination and Day/Night functions that make your camera identify objects even in the worst environment.
- XDR (eXtended Dynamic Range): Actively controls the gamma compensation in the way it operates the ambient luminance contrast in a certain pixel unit to determine the optimal visibility.
- Digital Power Synchronization: The full digital Line Lock function directly adjusts the vertical camera synchronization to enhance the operationability and reliability of this camera.(SCC-C4353/C4355 only)
- DAY/NIGHT: This function can make the IR Cut filtering function inactive under the illumination below the normal value.
- White Balance to control the brightness to the illumination
- Superior Backlight Adjustment:When an object has a bright illumination or sunlight behind it, this camera automatically improves the shaded object picture quality.
- Auto Focus to automatically adjust the focus to the subject movement
- Privacy zone to hide a specific area for personal privacy.

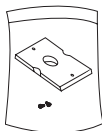
overview

WHAT'S INCLUDED

Please check if your camera and accessories are all included in the product package.



Camera



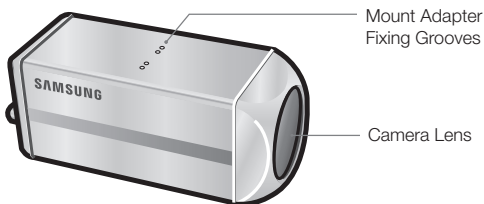
Camera Holder
(Mount Adaptor)
2 Screws



User's Manual

AT A GLANCE

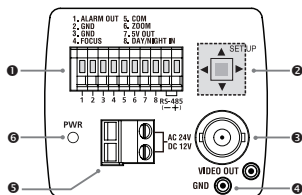
SIDE VIEW



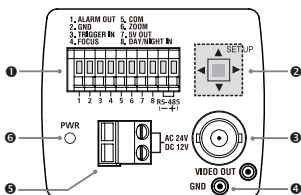
- Wipe out a dirty surface of the lens softly with a lens tissue or cloth to which you have applied ethanol.

Rear Panel

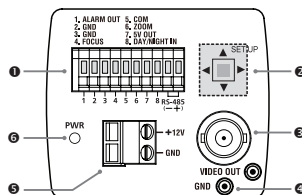
SCC-C4353



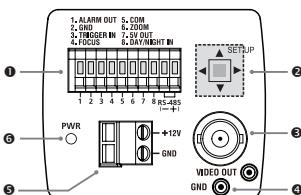
SCC-C4355



SCC-C4253

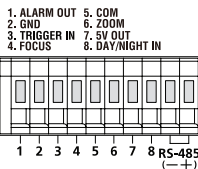


SCC-C4255

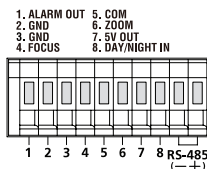


① Input/Output Connector

This connector has input and output ports for RS-485 control signals, DAY/NIGHT switching, and alarm output signals.



SCC-C4255/C4355



SCC-C4253/C4353

overview

1. ALARM OUT

Alarm out jack for motion detection. (Open Collector, On Gnd)

2. GND

Grounding jack.

3. TRIGGER IN (SCC-C4255/C4355)

Displays the current still image when it receives the Trigger signal. (Normal Open Type)

4.5.6 FOCUS, COM, ZOOM

This port is used for ZOOM/FOCUS, MENU CONTROL, HOME RETURN, and ONEAF by using an external controller.

Depending on the input condition, 4 modes, A, B, C, and D are available. (SPECIAL - CTRL TYPE)

(Operation Voltage Range : +3V~+13V, -3V~-13V)

1) When the voltage is supplied to either ZOOM or FOCUS port

Function *1	Tele(Up)	Wide(Down)	Near(Left)	Far(Right)
Code	ZOOM Port		FOCUS Port	
A	-6V	+6V	-6V	+6V
B	-6V	+6V	+6V	-6V
C	+6V	-6V	-6V	+6V
D	+6V	-6V	+6V	-6V

*1: During MENU OFF, controls ZOOM/FOCUS and during MENU ON, changes the direction, Up/Down/Left/Right SETUP switch.

2) When the voltage is supplied to both ports

Function	ENTER/AF *2		HOME RETURN *3	
Code	ZOOM Port	FOCUS Port	ZOOM Port	FOCUS Port
A	-6V	-6V	+6V	+6V
B	-6V	+6V	+6V	-6V
C	+6V	-6V	-6V	+6V
D	+6V	+6V	-6V	-6V

- * 2 : For short voltage supply during MENU OFF, executes ONEAF and for more than 2 second
- * 3 : For more than 2 second long voltage supply, moves to the PRESET 0(HOME) position.

7. 5V OUT

Power supply jack for RS-485 JIG. Use within typical DC +5V 100mA.

8. DAY/NIGHT IN

This is a function to receive the external DAY/NIGHT signal from the sensor(option) and convert the signal into BW.

9. RS-485 DATA-

Jack for connection to RS-485 DATA- signal line.

10. RS-485 DATA+

Jack for connection to RS-485 DATA+ signal line.

2 SETUP Switch

This switch is used to set the function or property. When this switch is pressed for at least 2 seconds, the MAIN MENU appears.

◀ ▶ (Left/Right) : By pressing this switch left or right, you can move left or right on the menu or change the displayed value.

▲ ▼ (Up/Down) : By pressing this switch up or down, you can move up or down on the menu.

▣ : When you press this switch in the menu, the selected function is confirmed. To enter a submenu, press this button.

3 Video OUT Port

This is connected to the Video Input Port of the monitor and it outputs the Video signals.

4 GND

This is a grounding port.

5 Power Connection Port

This is connected to the Power cable.

6 Power Display LED

When the power is normally connected, the red LED lights.

installation & connection

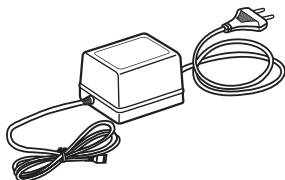
PREPARING INSTALLATION

- To install and use the camera, first prepare the following cables.

① **Power Adapter Cable (sold separately)**

The requirements for the power adapter, which connects to the camera's POWER IN terminal, are as follows:

- SCC-C4253/C4255 : DC 12V 600mA
- SCC-C4353/C4355: AC 24V 300mA
DC 12V 600mA



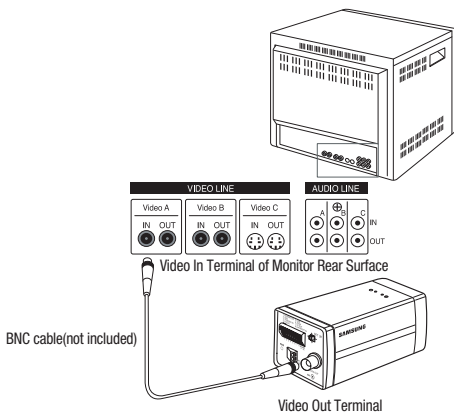
② **Video Cable(sold separately)**

Use a BNC cable, such as the one shown below, to connect the camera's VIDEO OUT to the monitor.

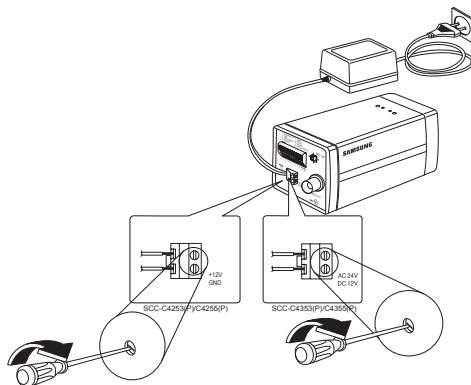


CONNECTING THE CABLES

1. Connect one end of the BNC cable(not included) to the VIDEO OUT.
2. Connect the other end of the BNC cable (not included) to the VIDEO IN of the monitor.

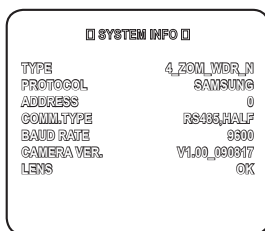


3. Plug in the power adapter(not included). Use a "minus" screwdriver to connect one part of the power adapter, which consists of two lines, to the POWER terminal of the camera as follows :



installation & connection

4. Determine the type of power supply and set the POWER SELECTION switch accordingly. Next, plug the power adapter into a wall outlet.
5. If the camera operates normally, the following screen will be displayed for 5 seconds and then disappears.



6. The requirements for RS485 control is as follows :
 - Signaling Speed: 9600 bps
 - Data Bit : 8 bits
 - Stop Bit : 1 bit
 - Parity Bit : none

setup

Using OSD icons

- ◀▶: If these icons appear in the left and right corner of a menu item, you can use them move to the previous or next menu.
- ☒ (EXIT): Exits the menu setup screen.
Before exiting the setup screen, select <SAVE> to save your settings to the whole menus, or <QUIT> to cancel them.
- ↶ (RET): Saves your settings and returns to the previous screen.
- 🏠 (HOME): Returns to the main menu.
- 💾 (SAVE): Use this icon if you want to save your settings after you specified the mask area and privacy area, etc.
Once you saved your settings, the changes remain intact even if you select <QUIT> on exit.
- 🗑️ (DEL): Use this icon if you want to delete a mask, or privacy area, etc.
Once you deleted your settings, the deletions remain valid even if you select <QUIT> on exit.
- ⏴: This icon appears in the right of a menu containing sub menu items.

MAIN MENU

This is the first screen you ever see when you turn on the camera where you can set the camera environment to your needs.

• PROFILE

Select a mode appropriate to the camera installation environment.

• CAMERA SET

You can configure the camera settings.

• INTELLIGENCE

Offers motion detection and tracking functions.

• PRIVACY ZONE

You can configure the privacy settings.

• PRESET

You can set the PRESET POSITION.

• OTHER SET

You can reset the camera, or adjust the OSD color to your preference.

** MAIN MENU **
 PROFILE ⏴
 CAMERA SET ⏴
 INTELLIGENCE ⏴
 PRIVACY ZONE ⏴
 PRESET ⏴
 OTHER SET ⏴
 COMMUNICATION ⏴
 SYSTEM INFO ⏴
 LANGUAGE ⏴
 ☒

setup

- **COMMUNICATION**

Configures the settings pertaining to RS-485 communication.

- **SYSTEM INFO**

Shows the system information such as the camera version or communication settings.

- **LANGUAGE**

Select a preferred one from the supported languages.

PROFILE

You can select one from the pre-determined configurations as appropriate to your specific camera installation environment.

Your selection on each item in PROFILE will affect all other settings of the camera.

- **STANDARD**

Automatically optimizes the camera settings to the normal environment.

- **ITS**

This setting enables you to analyze the traffic situation and take the traffic information at a glance.

- **BACKLIGHT**

This setting enables you to view a sharp background and object even in a severe backlight scene.

- **DAY/NIGHT**

Automatically optimizes the camera settings to the day and night scene.

- **GAMING**

This automatically configures the settings so that you can work in a stable illumination condition as indoors.

- **CUSTOM**

Your change to any of the PROFILE settings will switch the display to CUSTOM.

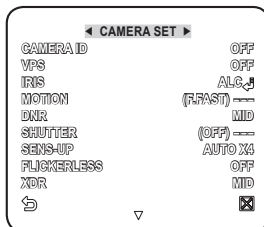


CAMERA SETUP MENU		STANDARD	ITS	BACKLIGHT	DAY/NIGHT	GAMING
Parent Menu	Sub-menus					
VPS		OFF	ON	OFF	OFF	OFF
		ALC	ALC	ALC	ALC	ALC
	ALC	-	-	-	-	-
	LEVEL	0	0	0	0	0
	BACKLIGHT	OFF	OFF	WDR	OFF	OFF
	WDR	-	-	-	-	-
	WEIGHT	Custom Setting	Custom Setting	MEDIUM	Custom Setting	Custom Setting
	WDR LEVEL	Custom Setting	Custom Setting	0	Custom Setting	Custom Setting
	WHITE BAL	Custom Setting	Custom Setting	Custom Setting	Custom Setting	Custom Setting
MOTION		(F.FAST) ---	(F.FAST) ---	NORM	(F.FAST) ---	SLOW
DNR		MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM
SHUTTER		OFF	OFF	OFF	OFF	OFF
SENSE UP		AUTO X4	AUTO X2	AUTO X4	AUTO X4	AUTO X4
XDR		MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM
		AUTO	AUTO	DAY	AUTO	DAY
	NIGHT	-	-	-	-	-
	BURST	OFF	ON	OFF	OFF	OFF
	EXT	-	-	-	-	-
	BURST	-	-	-	-	-
		DAY	DAY/NIGHT	DAY	DAY/NIGHT	DAY
	DAY	-	-	-	-	-
	MODE	ATW2	ATW1	ATW1	ATW1	ATW1
	RED	0	0	0	0	0
	BLUE	0	0	0	0	0
	NIGHT	-	-	-	-	-
	BRIGHTNESS	-	MEDIUM	-	MEDIUM	-
	MODE	OFF	ATW2	OFF	ATW2	OFF
	RED	-	0	-	0	-
	BLUE	-	0	-	0	-
DETAIL		2	2	2	2	2

CAMERA SET

You can configure the general settings of the camera module.

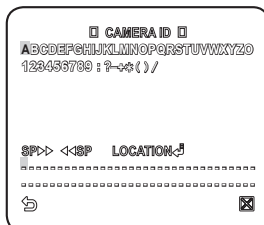
1. Select **<MAIN MENU>** - **<CAMERA SET>**.
The Camera Setup menu appears.
2. Change the settings as necessary, or select an item to check.



CAMERA ID

Provide the ID and location for a camera that displays on the screen.

1. Select **<CAMERA SET>** - **<CAMERA ID>**.
2. Use **▲▼◀▶** to select a desired character, then press **[ENTER]**.
In the lower input box of the screen, the selected character will be entered.
 - You can enter up to 54 characters including alphabets, numbers and special characters.
 - LOCATION : Specify the display position of the camera ID.



3. When done, press **[ENTER]**.
The camera ID will be displayed in the specified position.

VPS

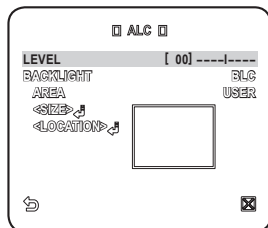
If you set it to **<ON>**, the camera images will be displayed in progressive mode.

- VPS is only available for SCC-C4255 and SCC-C4355.

IRIS

The IRIS menu is useful if you set to adjust the intensity of radiation incoming to the camera.

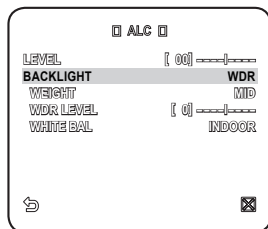
- **ALC** : Adjust the open and close of the iris.
 - **LEVEL** : Select an overall brightness level.
 - **BLC** : With **<BACKLIGHT>** set to **<BLC>**, you can specify the BLC area. With **AREA** set to **<USER>**, you can specify the position and size.



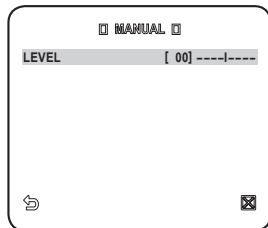
- **WDR** : If you set **<BACKLIGHT>** to **<WDR>**, you will see a menu where you can set the WDR options. Specify the shutter speed in **WDR LEVEL**, and the composition level in **<WEIGHT>**. Select **OUTDOOR**, or **INDOOR** in **<WHITE BAL>**.

The WDR feature provides an extension of the gain range, which is useful, especially if you work on pictures both indoors and outdoors from inside of a building.

Namely, it improves the sharpness of the picture in outdoor scenery as well as indoor.



- As long as you use the VPS function, the WDR will not be available as the CCD read method differs accordingly. If you set VPS to ON, WDR will be set to **<OFF>** accordingly.
- WDR is only available for SCC-C4255 and SCC-C4355.
- **MANUAL** : Adjust the iris level manually.
 - The overall brightness target of a camera will be set to ALC level 0, while the iris can be adjusted manually.



AGC

With this, you can adjust the AGC level of a camera.

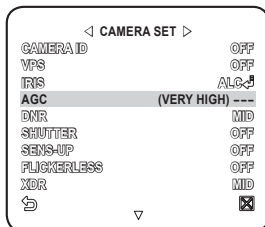
With AGC active, if the signal strength falls below the standard level, AGC will amplify the video signal to automatically improve the sensitivity.

If <**SENS-UP**> is set to <**OFF**> or <**FIX**> mode, the <**MOTION**> menu will switch to <**AGC**>.

With the USER () submenu selected, press [ENTER] to display the corresponding screen.

In this mode, you can select from VERY LOW to VERY HIGH in 16 levels, enabling deeper, wider choices to your convenience.

With the FIX () submenu selected, press [ENTER] to display the corresponding screen. In this mode, you can select an individualized mode in 16 levels, regardless of the brightness.



- As long as the DAY/NIGHT menu is set to AUTO in Camera Setup, the AGC menu is not available.
- As long as FLICKERLESS is set to ON, the AGC mode is not available.
- If you set BACKLIGHT to WDR, the AGC fix mode is not available.

MOTION

You can specify a level of AGC for controlling the camera motion.

This is available only if the SENSE UP menu is set to AUTO.

Select F.FAST if you want to monitor a very fast moving object in a low contrast scene, and S.SLOW if monitoring a very slow moving, inanimate object in the same condition.

- As long as DAY/NIGHT is set to <**AUTO**>, the <**MOTION**> menu is not available.

DNR

Reduces the noise on the camera image.

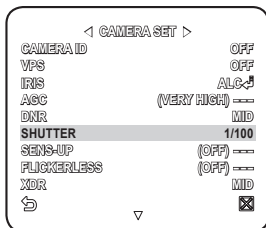
The higher the level is, the greater the effect is.

Set it to <**USER**> to specify the level.

SHUTTER

You can select a fixed fast electronic shutter speed in 7 options ranging from 1/100 to 1/10k, which is mostly used to take a picture of a fast moving object.

- As long as SENSE UP is set to AUTO, FIXED / FLICKERLESS to ON / BACKLIGHT to WDR, the SHUTTER menu is not available.



English

SENS-UP

Automatically senses the darkness level at night or in a low contrast scene, and extends the accumulation time accordingly; you can select <AUTO> or <FIX> for a bright and sharp image.

- If the SHUTTER menu is set to fixed electronic shutter mode, the SENSE UP menu will not be available.
- If FLICKERLESS is set to ON, or BACKLIGHT to WDR, the FIX mode of the SENSE UP menu is not available.

FLICKERLESS

This will prevent possible screen distortion due to a mismatch between the vertical sync frequency and the blinking frequency of the lighting; if set to <ON>, the shutter speed will be fixed to 1/100 second.

- If SHUTTER is set to FIX, SENSE UP to FIX, and AGC to FIX, the <FLICKERLESS> menu is not available.

XDR

This will correct a brightness difference between different scenes for the optimal visibility by calculating the ambient luminance contrast in a certain unit of pixels. The higher the value is, the higher the correction level is.

DAY/NIGHT

You can specify a recording mode according to the scene.

1. Select **<CAMERA SET>** - **<DAY/NIGHT>**.

2. Select a screen transition mode according to the illumination, and set options as appropriate.

- DAY : Fixed to DAY mode, regardless of the scene.

- NIGHT : Fixed to NIGHT mode, regardless of the scene.

If BURST is set to **<ON>**, the burst signal will be output along with the black-and-white composite video signal.

- AUTO : According to the luminance, this will switch DAY to NIGHT mode, or vice versa.

- BURST : If set to **<OFF>**, the burst signal will not be output in NIGHT mode.

- DAY➡NIGHT BRIGHTNESS : Specify the brightness level switching from COLOR to BW filter.

Adjusting from HIGH to LOW will cause to switch the filter in a darker screen.

- DAY➡NIGHT DWELL TIME : Time required to determine the filter switch.

- NIGHT➡DAY BRIGHTNESS : Specify the brightness level switching from BW to COLOR filter. Adjusting from HIGH to LOW will cause to switch the filter in a darker screen.

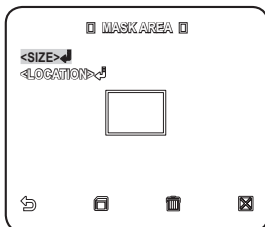
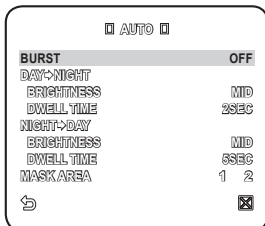
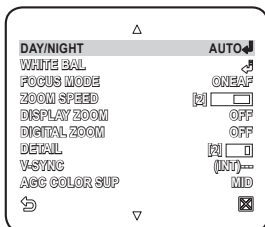
- NIGHT➡DAY DWELL TIME : Time required to determine the filter switch.

- MASK AREA : If there exists a bright spot light source in a night scene, you can specify the size and position as needed.

This will prevent an error in switching filter, or failure to determine the filter switch in a night scene where a bright spot light source exists.

Any excessively bright area in a night scene will be MASKed.

- You can specify MASK 1 and 2 simultaneously.



- If **<BACKLIGHT>** is set to **<BLC>**, the MASK AREA function is not available.
 - EXT : The interface to an external alarm enables an automatic switch between DAY and NIGHT mode.
-  ■ If you use an infrared light source while in AUTO mode, this may cause a failure in AUTO SWITCH or AUTO FOCUS.

WHITE BAL

If you need to adjust the color according to the ambient illumination, you can use the **<WHITE BAL>** function.

Illumination is generally referred to as color temperature, which is represented in a measurement of kelvin (K). Color temperatures for ordinary lighting are as follows:

In the **<WHITE BAL>** menu, you can set a mode for correcting the **<WHITE BAL>**.

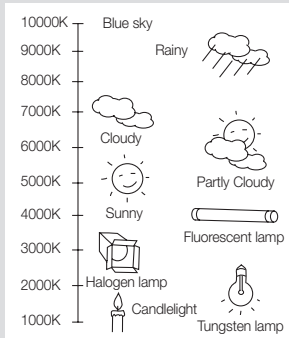
- ATW1,2 : If you set the **<WHITE BAL>** menu to **<ATW1>** or **<ATW2>** mode, this will monitor the change of the color temperature to correct the **<WHITE BAL>** as needed.

The following color temperature ranges are assured in individual modes:

ATW1 : 2500K ~ 9300K (※1)

ATW2 : 2000K ~ 10000K

(suitable to sodium light source) (※2)



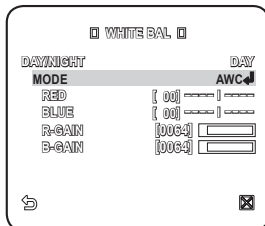
※1 : With **<ATW1>** mode active in a color temperature environment ranging beyond between 2500K and 9300K, a proper white balance value may not be produced; if this is the case, you are recommended to use **<ATW2>** mode.

※2 : With **<ATW2>** mode active in a mostly single color environment, the display color and the actual one may differ; so select a mode as appropriate to your color temperature environment.

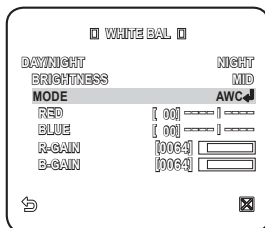
setup

1. Select <CAMERA SET> - <WHITE BAL>.
2. Select a mode where you set the <WHITE BAL>.

- DAY : You can set the RED, and BLUE value in DAY mode.
The screen will be displayed in colors according to your settings.
- You can set the R-GAIN, and B-GAIN value only in <AWC> mode.



- NIGHT : You can set the <WHITE BAL> according to the ambient illumination.
If NIGHT mode is set to <OFF>, the <WHITE BAL> will operate in a mode specified in DAY mode at all times; otherwise, the screen will switch to a mode specified in <DAY/NIGHT>.
You can set the RED, BLUE and BRIGHTNESS value in DAY mode.
The screen will be displayed in colors according to your settings.

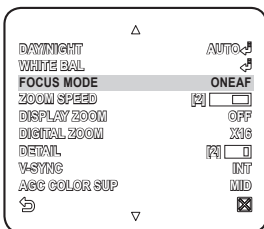


3. According to the specified recording mode, select a <WHITE BAL> mode with necessary options.
 - ATW1,2 : The camera can automatically adjust the color temperature in real time, according to the ambient conditions.
(Color temperature range 1: 2500K ~ 9300K, 2 : 2000K ~ 10000K)
 - AWC : Pressing [ENTER] on a desired item will perform ATW once.
 - You can set the R-GAIN/B-GAIN value.
 - 3200K : Set the color temperature to 3200K.
 - 5600K : Set the color temperature to 5600K.
 - BRIGHTNESS : Specify a brightness level switching from DAY mode to NIGHR mode setting.
 - RED : Adjust the strength of the red color.
 - BLUE : Adjust the strength of the blue color.
 - R-GAIN/B-GAIN : Specify the current color temperature manually.

FOCUS MODE

You can select a focus mode according to the angle that you adjusted for camera recording.

- AF : This will monitor the screen continuously to focus automatically. If you adjust the focus manually, that will operate the same as in <MF>. This will also restore focus after the operation of zoom.
- ONEAF : Restores focus after the operation of zoom, and operates the same as in <MF> unless the operation of zoom is executed.
- MF : You can adjust the focus manually.



- While you are working on the following objects, <AF> may not work properly. If this is the case, use <MF> instead.
 - Very bright object, or dominant object in a dark scene
 - Object against the rear side of a moist or dirty glass
 - A scene where nearby and distant objects co-exist
 - White wall or single-colored object
 - Venetian blinds and other horizontally striped objects

ZOOM SPEED

You can adjust the zoom operation speed.

DISPLAY ZOOM

You can set to display the zoom status on the screen.

- It will disappear in about 3 seconds if the zoom factor has no further change.

DIGITAL ZOOM

You can set the maximum allowable digital zoom ratio.

Digital Zoom will start operation after it is zoomed in to the maximum optical ratio of x43. If you set DIGITAL ZOOM to x16, you can take a shot at up to x688 (43x16). When you set DISPLAY ZOOM as on, you may see zoom value on the screen.

DETAIL

Used to adjust the vertical and horizontal distinction, respectively.

setup

V-SYNC

You can set the V-SYNC mode.

- If you select <INT>, the camera will use the internal synchronization.
- If selecting <LINE>, the camera will use an external power frequency for synchronization. The LL-PHASE can be adjusted as appropriate.



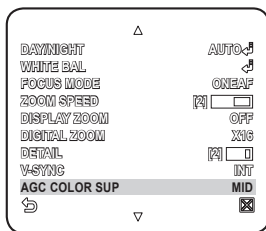
- It's a must to use AC 24V power supply when you select line lock for SCC-C4353 and SCC-C4355.
- Line lock is not available for SCC-C4253 and SCC-C4255.

AGC COLOR SUP

You can adjust the color reproduction range according to AGC.

REVERSE

You can reverse the video signal from left to right, upside down, or vice versa to your convenience.



POSI/NEGA

You can set the video brightness signal to normal or reverse.

PIP

You can view a main image with a sub image on the same screen.



- If more than one PRIVACY ZONE is specified, and PRIVACY SET to <ON>, the PIP function is not available.
- As long as SENSE UP is set to FIXED, PIP menu is not available.
- According to the luminance, PIP will disappear if the SENSE UP menu is set to AUTO.

DIS

If you set it to <ON> for a camera that is trembled or vibrated from an ambient change, this will automatically compensate for the flicker on the screen.



- If you set <DIS> to <ON>, the image will be enlarged with digital zoom as much area as compensated.

If you set the digital zoom to a larger ratio than the actual enlargement for compensation, the **<DIS>** function will be disabled.

- **<DIS>** may not work properly in the following images:
Flat, i.e., no regular-patterned image / Low contrast scene / High frequency image taken under a fluorescent lamp / Regular-patterned image.

INTELLIGENT VIDEO

You can enable the motion detection and tracking functions.

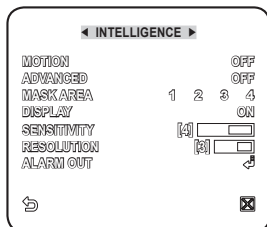
1. Select **<MAIN MENU>-<INTELLIGENCE>**.
2. Select each item and set appropriately.

MOTION

You can enable the motion detection and tracking functions.



- If you set it to **<DETECTION>**, the **<FIXED/MOVED>** option of **ADVANCED** menu will not be available.
- In following situations, motion detection and tracking function may not work properly.
 - When there is sudden changes of brightness
 - When the device moves
 - When a certain object's movement fills most of the framing area
 - When there is difficulties in distinguishing the moving object and background



ADVANCED

You can detect motions and mark the video that contains such motion, and enables tracking of the movement.

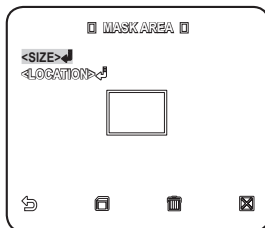
Selecting the **<FIXED/MOVED>** option will mark a region if an existing object disappears, or a new object appears and fixed for a certain period of time.



- In following situations, **FIXED/MOVED** detection may not work properly.
 - When multiple motions continue arbitrarily.
 - When the object that is fixed continues to move in the same position.
 - When a newly appearing object conceals another object that is moving.

MASK AREA

1. Select the number of the area to be masked that will be excluded from motion detection.
2. Select the mask number and set the mask size and its coverage.



DISPLAY

When selected **<ON>**, it displays the motion detected and detection of configured advanced function.

SENSITIVITY

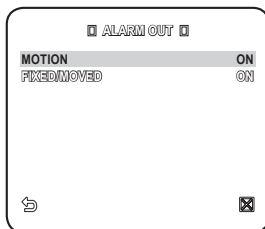
Sets the sensitivity of motion sensor.

RESOLUTION

The bigger the resolution setting, the smaller the object that can be detected.

ALARM OUT

When selected **<ON>**, it outputs alarm signal when the motion is detected and on a detection of configured advanced function.

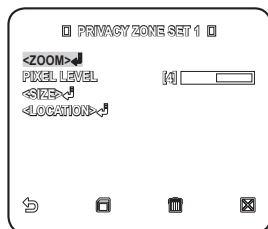
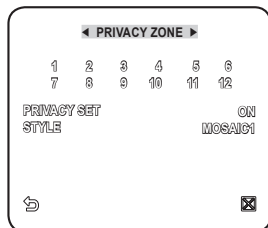


PRIVACY ZONE

You can set up to 12 privacy zones that will be hid for privacy of the subject when recording.

Zone Setup

1. Select <MAIN MENU>-<PRIVACY ZONE>.
2. Select the number of the zone and press [ENTER].
The Zone setup screen appears.
3. Select the <ZOOM> and press [ENTER].
Using ▲▼◀▶ to locate zoom position.
4. Select the <PIXEL LEVEL>.
Select the pixel level for the SIZE and LOCATION settings.
5. Select the <SIZE> and press [ENTER].
Using ▲▼◀▶, set the size of the privacy zone.
6. Select the <LOCATION> and press [ENTER].
Using ▲▼◀▶, set the position of the privacy zone.
7. Save the changes and move to the previous screen and select the <STYLE>.
Select the <COLOR> and pick a desired color.

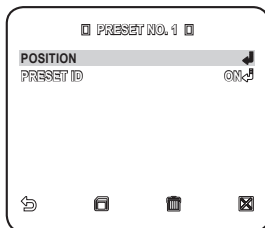
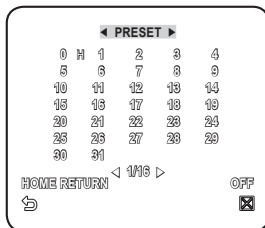


-  ■ Setting one or more privacy zone and enabling privacy function will disable the PIP function.
- For better privacy protection, make your privacy zone bigger than the required, bigger by about 30%.
- Video portion of mosaic pattern or colored by the privacy zone setup is not recoverable.

PRESET

This function provides preset camera settings such as zoom and focus so to enable quicker and easier accessing and monitoring, which supports up to 512 presets.

1. Select <MAIN MENU>-<PRESET>.
2. Select the preset number.
3. Select <POSITION>.
4. Set <PRESET ID> to <ON> and enter the name.
 - For entering the name, refer to "CAMERA ID". (page 18)



OTHER SET

You can reset the system by running FACTORY DEFAULTS, or set the font color etc.

1. Select <MAIN MENU>-<OTHER SET>.
2. Select each item and set appropriately.

EXTERNAL TRG

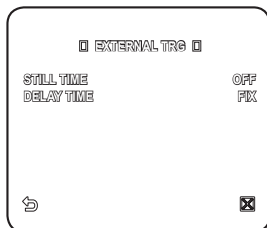
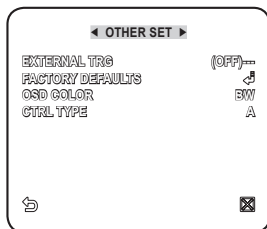
Set the **EXTERNAL TRG** menu to **ON** and press the **SETUP** switch to display the appropriate screen.

You can set the **STILL TIME** to 0~4 seconds.

If **DELAY TIME** is set to **FIX**, the **DELAY TIME** will be set in sync with the **STILL TIME**; if set to **USER**, the **DELAY TIME** will be set to your setting.



- If **VPS** is set to **OFF**, the **EXTERNAL TRG** menu will be deactivated.

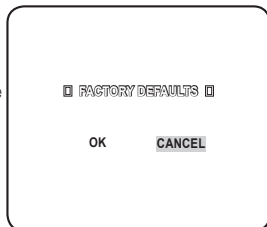


FACTORY DEFAULTS

When selected, the <**FACTORY DEFAULTS**> screen appears and you can reset all settings to the factory default settings by selecting the <**OK**>. However, the protocol, baud rate, address and the language settings will not be reset.



- Note that the resetting the system to the factory default will erase all settings data.



OSD COLOR

Selects the color of the on-screen display font.

setup

CTRL TYPE

By inputting the wire remote port, you may set up the A, B, C or D mode.

Code	Tele	Wide	Far	Near
A	-6V	+6V	+6V	-6V
B	-6V	+6V	-6V	+6V
C	+6V	-6V	+6V	-6V
D	+6V	-6V	-6V	+6V

COMMUNICATION

You can set the RS-485 communications setting in regard of the camera.

1. Select <MAIN MENU>-<COMMUNICATION>.
2. Select each item and set appropriately.
 - PROTOCOL, BAUD RATE, ADDRESS :
You can manually set the protocol, baud rate and address.

◀ COMMUNICATION ▶

RS485
PROTOCOL SAMSUNG
BAUD RATE 9600
ADDRESS 0

SYSTEM INFO

You can check the system information.

1. Select <MAIN MENU>-<SYSTEM INFO>.
2. The current system information is displayed.

◀ SYSTEM INFO ▶

TYPE 4-ZOM-WDR-N
PROTOCOL SAMSUNG
ADDRESS 0
COMM. TYPE RS485, HALF
BAUD RATE 9600
SERIAL NO. 0000000000000000
CAMERA VER. v1.00_00000

LANGUAGE

You can set the language of the user interface.

1. Select <MAIN MENU>-<LANGUAGE>.
2. Select your language using the up/down keys.



English

SHORTCUT KEYS

You may control this camera by using Controller (SSC-5000).

	Function	Key
CAMERA SET	DAY/NIGHT - DAY	[PRESET] + [5] + [1] + [2] + [ENTER]
	DAY/NIGHT - NIGHT	[PRESET] + [5] + [1] + [3] + [ENTER]
	DAY/NIGHT - AUTO	[PRESET] + [5] + [1] + [4] + [ENTER]
	DAY/NIGHT - EXT	[PRESET] + [5] + [1] + [5] + [ENTER]
	IRIS - ALC - BACKLIGHT - WDR	[PRESET] + [5] + [1] + [6] + [ENTER]
	IRIS - ALC - BACKLIGHT - OFF	[PRESET] + [5] + [1] + [7] + [ENTER]
	IRIS - ALC	[PRESET] + [5] + [1] + [8] + [ENTER]
	IRIS - MANU	[PRESET] + [5] + [1] + [9] + [ENTER]
	FOCUS MODE - AF	[PRESET] + [5] + [2] + [0] + [ENTER]
	FOCUS MODE - MF	[PRESET] + [5] + [2] + [1] + [ENTER]
Function	FOCUS MODE - ONEAF	[PRESET] + [5] + [2] + [2] + [ENTER]
	Resetting (Factory Defaults)	[PRESET] + [5] + [2] + [3] + [ENTER]
	CCD Defect Correction	[PRESET] + [5] + [2] + [4] + [ENTER]

SPECIFICATIONS

English

Item	Description					
Product Type	Power Zoom Camera					
Power Source	SCC-C4253/SCC-C4255: DC 12V SCC-C4353/C4355 : AC 24V (60Hz),DC 12V					
Power Consumption	SCC-C4253, SCC-C4255: 4.2W SCC-C4353, SCC-C4355: 5.6W					
TV Standard	NTSC STANDARD COLOR SYSTEM					
Image Sensor	SCC-C4255/C4355: ExView-HAD PS CCD SCC-C4253/C4353: Super-HAD IT CCD					
Effective Pixels	768(H) × 494(V)					
TV line frequency	Horizontal : 15, 734 Hz (INT) / 15, 750 Hz (L/L) Vertical : 59.94 Hz (INT) / 60 Hz (L/L)					
Synchronization	INT/LINE LOCK (LINE LOCK is not available for SCC-C4253/C4255)					
Resolution	Horizontal : 600 TV LINES (color) Vertical : 350 TV LINES					
S/N Ratio	Approximately 52 dB					
Minimum subject illumination	condition		SCC-C4253/C4353		SCC-C4255/C4355	
	SENS-UP	Illumination	Color	B/W	Color	B/W
	Off	50IRE	2	0.2	1.2	0.12
	Off	30IRE	1.2	0.12	0.7	0.07
	Off	15IRE	0.6	0.06	0.3	0.03
	x512	50IRE	0.004	0.0004	0.002	0.0002
	x512	30IRE	0.002	0.0002	0.001	0.0001
	x512	15IRE	0.001	0.0001	0.0007	0.00007

English_35

appendix

Item	Description
WDR	SCC-C4255/C4355: x128 WDR is not available for SCC-C4253/C4353.
Signal Output	COMPOSITE VIDEO OUT : 1.0 Vp-p 75 ohms/BNC
Lens	x43 Zoom Lens Integrated Focal length : 3.21 ~ 138.5mm Aperture : F1.65(Wide) F3.7(Tele) - MOD(Minimum Object Distance) : 100mm
Electronic shutter speed	High Speed: OFF~1/10K sec Low Speed: OFF~X512
DIGITAL ZOOM	2x ~ 16x
White Balance	ATW1/ATW2/AWC/MANUAL Mode (3200°K, 5600°K, R/B Gain adjustment)
Operation Temperature	-10°C~+50°C
Operation Humidity	~90%
Dimensions (WxHxD)	SCC-C4253/C4255 : 59mm x 59.2mm x 124.2mm SCC-C4353/C4355 : 59mm x 59.2mm x 154.5mm
Weight	SCC-C4253/C4255: 421g, SCC-C4353/C4355: 564g
Product Color	silver

