SCB-4000(P) SCB-4000PH

DIGITAL COLOR CAMERA

user manual

imagine the possibilities

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please register your product at
www.samsungsecurity.com



Safety information



CAUTION

RISK OF ELECTRIC SHOCK.DO NOT OPEN



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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 EXCLAMATION POINT SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

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.
- IF THIS POWER SUPPLY IS USED AT 240V AC, A SUITABLE PLUG ADAPTER SHOULD BE USED.

WARNING

- 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.
- 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
 CALISE ARNORMAL HEAT GENERATION OR FIRE
- SECURELY PLUG THE POWER CORD INTO THE POWER RECEPTACLE. INSECURE CONNECTION MAY CAUSE FIRE.
- WHEN INSTALLING THE CAMERA, FASTEN IT SECURELY AND FIRMLY. THE FALL OF CAMERA MAY
 CALISE PERSONAL INJURY
- DO NOT PLACE CONDUCTIVE OBLECTS (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.
- 7. DO NOT INSTALL THE UNIT IN HUMID, DUSTY, OR SOOTY LOCATIONS. DOING SO MAY CAUSE FIRE OR FLECTRIC 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.

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Safety information

- 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.)
- WHEN CLEANING, DO NOT SPRAY WATER DIRECTLY ONTO PARTS OF THE PRODUCT. DOING SO MAY CAUSE FIRE OR ELECTRIC SHOCK.

CAUTION

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- 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.
- DO NOT INSTALL IN A LOCATION SUBJECT TO HIGH TEMPERATURE (OVER 140°F), LOW TEMPERATURE (BELOW -14°F), 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.
- 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.
- 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.

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 FOLIPMENT REGULATIONS OF ICES-003

Important Safety Instructions

- 1. Read these instructions
- Keep these instructions.
- Heed all warnings.
- 4. Follow all instructions.
- 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.
- 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.
- Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
- Unplug this apparatus when a card is used. Use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- 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

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)



(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g., charger, headest, USE cable) should not be disposed of with other household waste at the end of their working (fig. To prevert possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and exposed them responsibly to promote the sustainable rease of marketar 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 these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product



(Applicable in the European Union and other European countries with separate battery return systems.)
This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of
with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate
that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/968. If batteries are

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

not properly disposed of, these substances can cause harm to human health or the environment.

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Introduction

FEATURES

High Resolution

 This camera has realized high resolution of 600 lines using the top-notch full digital image processing and special algorithm technologies.

Intelligent Motion Detection & Tracking

 This is an intelligent function that automatically detects a motion of an object. You can set a virtual fence so it sounds an alert if an object passes / enters /exits the virtual fence or virtual area.

* 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.

❖ DAY/NIGHT

• This function can make the IR Cut filtering function inactive under the illumination below the normal value.

High Sensitivity

It implements images of high sensitivity using the up-to-date SONY 1/2"Exview-HAD IT CCD..

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.

Superior Backlight Adjustment

 When an object has a bright illumination or sunlight behind it, this camera automatically improves the shaded object picture quality.

Digital Power Synchronization

The full digital Line Lock function directly adjusts the vertical camera synchronization to enhance the
operationability and reliability of this camera.

Output Signal Setting

 You can set the following Video output signals: Image reversion (Horizontal, Vertical, or both), Privacy, Horizontal/Vertical profiling, and digital zooming.

OSD(On Screen Display) Menu

OSD menu is provided to display the status of camera and to configure the functions interactively.

Coaxial Cable Communication

This is a remote control function that overlaps the coaxial cable (for a transfer of the video signal) with the
control signal. In installation or repair, this helps you control the communication controller (optional) without
additional cabling.

Came

PR

PRODUCT & ACCESSORIES

* Product & Accessories

• Main Product



Camera

· Accessories



Camera Holder(Mount)



C Mount Adapter



User's Manual

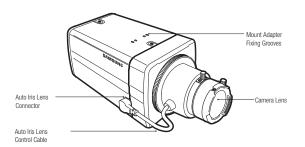


Auto Iris Lens Connector



POWER(SCB-4000PH)

Side View



· Auto Iris Lens Connector

This groove is used for screwing the mount adapter, a part of the bracket where the camera will be installed.

· Auto Iris Lens Control Cable

This cable transmits the power and signals from the camera for controlling the Auto Iris Lens.

. Mount Adapter Fixing Grooves

These grooves are used when fixing screws of the mount adapter connected to the bracket when installing the camera on it.

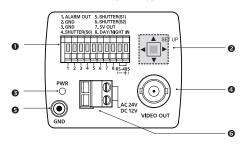
Note:

- When the camera lens becomes dirty, softly clean it with a lens tissue or a cloth soaked in pure ethanol.

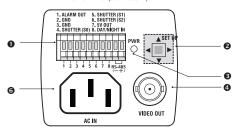
Introduction

Rear Panel

<AC24/DC12V (SCB-4000(P))>



<AC220V~240V(SCB-4000PH)>



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Introduction

Input/Output Connector

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



No.	Function	Description
1	ALARM OUT	Alarm out port for motion detection. (Open collector type)
2	GND	Grounding Port.
3	GND	Grounding Port.
4	SHUTTER (S0)	This is a port for selecting an external high speed shutter mode. If connected in LOW (0V), it will become ON inside.
5	SHUTTER (S1)	This is a port for selecting an external high speed shutter mode. If connected in LOW (0V), it will become ON inside.
6	SHUTTER (S2)	This is a port for selecting an external high speed shutter mode. If connected in LOW (0V), it will become ON inside.
7	5V OUT	Power supply port for RS-485 JIG. Use within typical DC +5V 100mA
8	DAY/NIGHT IN	This is a port for DAY&NIGHT conversion. High(DC +3V~+5V): DAY(COLOR) Mode, Low(0V): NIGHT(BW) Mode
9	RS-485 DATA-	This is a port for connection to RS-485 DATA- signal line.
10	RS-485 DATA+	This is a port for connection to RS-485 DATA+ signal line.

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.

Power Display LED

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

Video OUT Port

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

GND

This is a grounding port.

O Power Connection Port

This is connected to the Power cable.

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Pin3 Pin1 Pin2 Pin2

Connect each uncovered shutter control cables to the Auto Iris Lens Connector as the following

Pin No.	DC Control Type	Video Control Type
1	Damp(-)	Power (+12V)
2	Damp(+)	Not applicable
3	Drive(+)	Video Signal
4	Drive(-)	Ground

Note:

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- You can switch a control type of the lens in the menu.

MOUNTING THE LENS

When using the CS lens

Mount the CS lens by rotating it clockwise as shown in the picture:







When using the C lens

After mounting the C-mount adapter by rotating it clockwise, turn the C lens clockwise until it is fixed as shown in the picture.





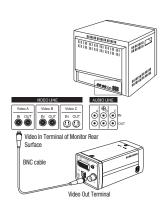


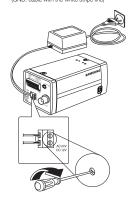
Installation

CONNECTING CABLES AND CHECKING OPERATION

- ① Connect one end of the BNC cable to the VIDEO OUT Port on the rear of the camera.
- Connect another end of the BNC cable to the VIDEO IN Port on the monitor.

(3) Finally connect the power adapter to the camera. You can connect 2 lines of the power adapter to the camera using the Slot Head screwdriver as shown in the picture. (GND: cable with the white stripe line)





= Note :

Connect any power source of AC 24V and DC 12V irrespective of polarity.

USING ICONS IN THE MENU

• 図 (EXIT)

Exits the menu setting.

Before you exits the menu setting, select SAVE to save your settings, or select QUIT to cancel.

• 5 (RET)

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Returns to the previous menu.

• ☐ (SAVE)

Used to save your settings of MASK AREA, PRIVACY ZONE and more. Once you save your settings, they will remain even if you select QUIT in the menu.

• 🖀 (DEL)

Used to deletes your settings of MASK AREA, PRIVACY ZONE and more. Once you delete your settings, they will not be restored even if you select QUIT in the menu.

MAIN MENU

MAIN MENU PROFILE*

CAMERA SET di INTELLIGENCE di PRIVACY ZONE di OTHER SET di COMMUNICATION di SYSTEM INFO di

×

PROFILE

You can set a mode according to the camera installation conditions.

CAMERA SET

Configure Camera related functions and data.

• INTELLIGENCE

You can configure the settings of motion detection, tracking and more.

PRIVACY ZONE

You can configure the privacy related settings.

· OTHER SET

You can configure for Factory Defaults, and more.

COMMUNICATION

Configures the settings regarding the RS-485 communication.

· SYSTEM INFO.

Displays the system information including the camera version and communication settings.

PROFILE

◆ PROFILE ▶

*STANDARD ITS BACKLIGHT DAY/NIGHT GAMING CUSTOM

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In the PROFILE menu, you can configure the following camera settings at once.

CAMERA SET Menu							
Previous Menu	Sub-menus	STANDARD	ITS	BACKLIGHT	DAY/NIGHT	GAMING	
IRIS		ALC	ALC	ALC	ALC	ALC	
	ALC	-	-	-	-	-	
	LENS	DC	DC	DC	DC	DC	
	LEVEL	0	0	0	0	0	
	BACKLIGHT	OFF	OFF	BLC	OFF	OFF	
MOTION		(F.FAST)	(F.FAST)	NORM	(F.FAST)	SLOW	
DNR		MID	MID	MID	MID	MID	
SHUTTER		OFF	AUTO1/250	OFF	OFF	OFF	
SENS-UP		AUTOx4	AUTOx2	AUTOx4	AUTOx4	AUTOx4	
XDR		MID	MID	MID	MID	MID	
DAY/ NIGHT		AUTO	AUTO	DAY	AUTO	DAY	
	NIGHT	-	-	-	-	-	
	BURST	OFF	ON	OFF	OFF	OFF	
	EXT	-	-	-	-	-	
	BURST	OFF	ON	OFF	OFF	OFF	

♦ F

CAMERA SET Menu							
Previous Menu	Sub-menus	STANDARD	ITS	BACKLIGHT	DAY/NIGHT	GAMING	
WHITE BAL		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	User setting allowed	MID	User setting allowed	MID	User setting allowed	
	MODE	OFF	ATW2	OFF	ATW2	OFF	
	RED	User setting allowed	0	User setting allowed	0	User setting allowed	
	BLUE	User setting allowed	0	User setting allowed	0	User setting allowed	
DETAIL		2	2	2	2	2	

♦ ITS

It will be set automatically so you can easily check the traffic conditions.

❖ BACKLIGHT

It will be set automatically so you can distinguish the object from the background in a severe backlighting scene.

❖ DAY/NIGHT

It will be set automatically so it optimizes to the day or night conditions, respectively.

GAMING

It will be set automatically to help you take a picture in a regular indoor lighting condition.

CAMERA SETUP

CAMERA SET ▶ CAMERA ID OFF TRTS ALC + MOTION (F.FAST)---DNR MTD SHUTTER OFF SENS-UP AUTO X4 FLICKERLESS (OFF)---MID XDR DXI





Setup the general functions of zoom camera module. Use the $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$ switch to select a menu item.

CAMERA ID

[OFF, ON]



The CAMERA ID menu is used for you to assign a unique name to a camera. If you press the SETUP switch with the CAMERA ID menu selected, you will see the appropriate screen.

You can enter up to 54 alphanumeric or special characters for the CAMERA ID. Select LOCATION and press the SETUP switch to move the display position of the CAMERA ID.

◆ IRIS

[ALC, ELC]

• E

The **IRIS** menu is used if you want to adjust the intensity of radiation incoming to the camera.

. ALC (Automatic Light Control)

 If you press the SETUP switch with an ALCbased sub menu selected, you will see the appropriate screen.



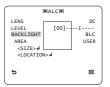
The **LENS** menu is used if you select a type of the Al lens.

For normal operation, you must select **DC** for a DC-type lens, and select **VIDEO** for a VIDEO-type lens.

The **LEVEL** menu is used to adjust the overall brightness, where "+" will increase the brightness and "-" will decrease it.

② If you set the BACKLIGHT option to BLC, you will see a menu where you can set the BLC area.

you can set the desired **BLC** zone by defining the size and location.



If you use an ordinary camera in a scene with an intensive backlight, the object will be displayed dark on the monitor affected by the backlight. To solve this problem, you can use the BLC(Back Light Compensation) function to improve the sharpness of the image in such a high contrast scene.

. ELC (Electronic Light Control)

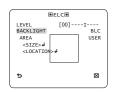
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(i) If you press the SETUP switch when the ELC a submenu is selected, the corresponding screen appears. You can make the ELC (Electronic Light Control) function active or not.



 In similar to ALC setting, you can specify the BLC area.



AGC [OFF, VERY LOW, LOW, MID, HIGH, VERY HIGH, USER, FIX]

The AGC (Auto Gain Control) menu is used to set the AGC level of the camera. When the AGC is active, the camera automatically increases the sensitivity by amplifying the Video signal when the strength of the signal falls below the normal value.

If OFF or FIX mode is selected in the SENS-UP menu, you can specify the AGC level.

If you press the **SETUP** switch with a **USER** sub menu selected, you will see the appropriate screen.



In USER mode, you can break down the level in 16 steps from VERY LOW to VERY HIGH to your preference.



If you press the **SETUP** switch with a **FIX** sub menu selected, you will see the appropriate screen.

As a fixed value of the AGC gain is used in FIX mode, you can select one of the 16 detailed levels from VERY LOW to VERY HIGH before fixing it.

Note:

- If the DAY/NIGHT menu of the CAMERA SET is set to AUTO, the AGC menu will be deactivated.
- If FLICKERLESS is set to ON, the AGC FIX mode will be disabled.

❖ MOTION [S.SLOW, SLOW, NORM, FAST, F.FAST]

The MOTION menu is used to adjust the strength of the AGC level for a control of the camera motion. This is available only if the SENS-UP menu is set to AUTO.

You can select one from S.SLOW, SLOW, NORM, FAST and F.FAST for the AGC level.

If you monitor a fast moving object in a low contrast scene, select **F.FAST** while select **S.SLOW** for a hardly moving object in the same lighting condition.

Note:

 If the DAY/NIGHT menu of the CAMERA SET is set to AUTO, the MOTION menu will be deactivated.

DNR [OFF,LOW,MID,HIGH, USER(1~16)]

You can configure the **DNR** (Digital Noise Reduction) related settings.

Reduces the noise on the screen.

This is especially useful for a severely distorted screen.

You can set the level if you set DNR to USER.

♦ SHUTTER

[OFF, AUTO 1/100(PAL:1/120), AUTO 1/250, AUTO 1/500, AUTO 1/1000, AUTO 1/2000, AUTO 1/4000, AUTO 1/10K, 1/100(PAL:1/120), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10K, EXT]

The **SHUTTER** menu is used to set the fixed high-speed electronic shutter, auto high speed electronic shutter and external high speed electronic shutter(EXT).

You can select one of 7 options from 1/100(PAL:1/120) to 1/10K for the fixed high speed electronic shutter, which is mostly used for imaging a fast moving object.

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The auto high speed electronic shutter operates as the fixed high speed shutter in a high contrast scene but automatically focuses the target if the iris opens fully in a low contrast scene like in ELC mode. When it gets brighter back, the mode will switch to the fixed high speed electronic shutter mode.

However, the auto high speed shutter operates properly only in a camera featuring a DC or VIDEO lens.

In extenal high speed electronic shutter (EXT) mode, you can select one of 8 modes from **OFF** through 1/10/PAL-1/120) to 1/10K for the high speed electronic shutter. It works as the high speed electronic shutter. You can select an option using SHUTTER(S0), SHUTTER(S1) and SHUTTER(S2) on the rear.

Connect each of the terminals to GND.

See the below table for the operation.

	SHUTTER(S0)	SHUTTER(S0) SHUTTER(S1)	
OFF (NTSC: 1/60, PAL:1/50)	OFF	OFF	OFF
1/100 (PAL:1/120)	ON	OFF	OFF
1/250	OFF	ON	OFF
1/500	ON	ON	OFF
1/1000	OFF	OFF	ON

1/2000	ON	OFF	ON
1/4000	OFF	ON	ON
1/10K	ON	ON	ON

Note ·

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- If IRIS mode is set to ELC, the SHUTTER menu will be deactivated as you adjust the brightness using the electronic shutter.
- If the SENS-UP function is set to AUTO, only items of OFF and AUTO are available in the SHUTTER menu.
- If the SENS-UP mode is set to FIX, the SHUTTER menu will be deactivated.
- If the FLICKERLESS function is set to ON, the SHUTTER menu will be deactivated.

❖ SENS-UP

[OFF, AUTO X2, AUTO X4, AUTO X6, AUTO X8, AUTO X12, AUTO X12, AUTO X124, AUTO X324, AUTO X324, AUTO X346, AUTO X364, AUTO X366, AUTO X512, FIX X32, FIX X34, FIX X6, FIX X8, FIX X12, FIX X16, FIX X24, FIX X32, FIX X48, FIX X64, FIX X64, FIX X96, FIX X128, FIX X325, FIX X45, FIX X5121

Automatically detects the ambient level of darkness in the dark or low contrast scene to extend the accumulated time, keeping the image bright and sharp; It can be also used as FIX mode.

Note :

- If the SHUTTER option is set to fixed electronic shutter or EXT mode, the SENS-UP menu will be deactivated.
- If FLICKERLESS is set to ON, the FIX mode of the SENS-UP menu will be disabled.
- If the IRIS menu is set to ELC, the electronic shutter will control the brightness so the SENS-UP function can not be set to FIX mode, but to OFF or AUTO mode.
- If the SHUTTER menu is set to AUTO, the SENS-UP menu can be set to either OFF or AUTO mode.

❖ FLICKERLESS [OFF, ON]

If set to **ON**, the shutter speed will be fixed to 1/100/PAL:1/120) second. This will prevent possible screen distortion due to a mismatch between the vertical sync frequency and the blinking frequency of the lighting.

= Note :

- If the IRIS function is set to ELC, the Flickerless menu will be deactivated. If the SHUTTER menu is set to AUTO, FIX or EXT mode, the Flickerless menu will be deactivated.
- If the SENS-UP function is set to FIX mode, the Flickerless menu will be deactivated.
- If AGC is set to FIX mode, the FLICKERLESS function will be disabled.

XDR (eXtended Dynamic Range) [0FF, LOW, MID, HIGH]

Actively controls the gamma compensation in the way it operates the ambient luminance contrast in a certain pixel unit to determine the optimal visibility.

Select one from OFF, LOW, MID and HIGH. Closing to HIGH will increase the compensation level.

DAY/NIGHT [DAY.NIGHT.AUTO.EXT]

• DAY

If set to **DAY**, it will be fixed to **DAY** mode regardless of the ambient conditions.

NIGHT

If set to NIGHT, it will be fixed to Black-and-White mode regardless of the ambient conditions.

If you press the **SETUP** switch with a **NIGHT** sub menu selected, you will see a menu where you can set Burst to **OFF/ON**.

If BURST is set to ON, the Burst signal will output together with the black-and-white composite video signal. If BURST is set to OFF, the Burst signal does not output.

You can set the BURST option to OFF/ON, or select to output the Burst signal in NIGHT mode.

AUTO

The camera will automatically switch between **DAY and NIGHT** mode, according to the lighting condition.

If you press the SETUP switch with an AUTObased sub menu selected, you will see the appropriate screen.

■AUTO■						
BURST	OFF					
DAY→NIGHT						
BRIGHTNESS	MID					
DWELL TIME	2SEC					
NIGHT→DAY						
BRIGHTNESS	MID					
DWELL TIME	5SEC					
MASK AREA	1 2					
5	⊠					

You can set the BURST option to OFF/ON, or select to output the Burst signal in NIGHT mode.

You can select from LOW, MID and HIGH for the brightness of DAY->NIGHT, which is a brightness level in switching from the color filter to Black-and-White. Closing to LOW from HIGH will switch the filter in a low contrast scene. The DWELL TIME of DAY->NIGHT is a time required to determine the need for switching the filter.

You can select from LOW, MID and HIGH for the brightness of NIGHT→DAY, which is a brightness level in switching from the Black-and-White filter to color. Closing to LOW from HIGH will switch the filter in a low contrast scene. The DWELL TIME of NIGHT→DAY is a time required to determine the need for switching the filter.

The MASK menu is used to prevent a filter switch error or inability of determining the switch in existence of a high spot light source at night. If you press the SETUP switch in item 1 or 2 of the MASK menu, you'll see a menu where you can specify an area to mask.



You can specify Mask 1 and 2 simultaneously. The mask is used only for determining the filter switch and any excessive bright area at night will be masked.

Note :

 If BACKLIGHT is set to BLC, the MASK AREA function will be deactivated.

EXT

This enables an auto switch between **DAY** and **NIGHT** mode using the interface with the external sensor.

= No

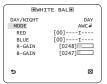
5

❖ WHITE BAL [DAY/NIGHT]

If you want to adjust the color scheme, use the WHITE BALANCE function.

DAY

In DAY mode, you can set the color values of RED and BLUE. The screen will be displayed in colors according to your settings.



■ Note

 You can set the values of R-GAIN and B-GAIN only in AWC mode.

NIGHT

Use the **NIGHT** mode if you want to set the white balance differently according to the ambient luminance

If the NIGHT mode is set to OFF, the white balance will always operate as set in DAY mode; if not to OFF, the camera will switch to as set in DAY/NIGHT mode according to the brightness. In NIGHT mode, you can set the values of RED, BLUE and BRIGHTNESS. The screen will be

displayed in colors according to your settings.

■WHI	TE BAL⊞
DAY/NIGHT	NIGHT
BRIGHTNESS	MID
MODE	AWC 4
RED	[00]
BLUE	[00]
R-GAIN	[0248]
B-GAIN	[0247]
5	⊠

= Note :

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- You can set the values of R-GAIN and B-GAIN only in AWC mode.
- If AGC is set to OFF or FIX, you can not access the NIGHT menu.
- For adjusting the white balance, the following 5 modes are provided:
 - ATW1(Auto Tracing White Balance mode 1): The camera can automatically adjust the color temperature in real time, according to the ambient conditions. The color temperature ranges from approx. 2500K to 9300K.
 - ATW2: The color temperature ranges from approx. 2,000K to 10,000K.
 - AWC (Auto White Balance Control): If you press the SETUP switch in the appropriate item position, Auto White Balance will perform once.
 - 3200K: Set color temperature to 3200K
 - . 5600K: Set color temperature to 5600K

- RED : Adjusts the strength of the red color.
- BLUE: Adjusts the strength of the blue color.
- R-GAIN/B-GAIN: Enables you to set the current color temperature manually.
- BRIGHTNESS: Select a brightness level in switching from setting in DAY mode to setting in NIGHT mode.

❖ DIGITAL ZOOM [ON/OFF]

You can set the digital zoom factor and position. If you press the SETUP switch with the DIGITAL ZOOM function set to ON, you will see the appropriate screen.

When the zoom factor and position are defined, the digital zoom function will operate.



 LOCATION: If you press the SETUP switch in the condition where the image is enlarged as much as the ratio setting, you can watch an invisible area of the effective screen as well using the ▲ ▼ ◀ ▶ switch.

Note :

 If the digital zoom factor is set to larger than 1x, the FENCE function will be deactivated.
 The DIGITAL ZOOM function enlarges the pixel itself, which can cause deterioration of the quality.

♦ DETAIL [0~3]

Controls the horizontal or vertical distinction.

V-SYNC **INT. LINE**

Select the vertical sync mode for INT or LINE.

If you select INT, the camera will use the internal synchronization.

If selecting LINE, the camera will use the external power source frequency for the synchronization.

You can adjust the LL-PHASE.

Note:

- Use of DC 12V will fix V-SYNC to INT, which can not be changed.

AGC COLOR SUP [LOW . MID. HIGH]

Adjust the color scheme according to the AGC value.

Mirrors video signals horizontally, vertically, or both.

❖ POSI/NEGA [+, -]

Output as it is or mirror the video brightness signal.

◆ PIP

REVERSE

[OFF, ON]

[OFF, H. V. H/V]

Displays a sub image together with the main image on the same screen using the Picture In Picture function.

= Note:

- If more than one privacy zone is set and the PRIVACY SET is set to ON, the PIP function will be deactivated.
- If the INTELLIGENCE function is set to FENCE mode, the PIP menu will be deactivated.

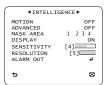
DIS [OFF, ON]

Digital Image Stabilization will set the anti-shake compensation.

Note:

- If you set DIS to ON, the compensation area will be enlarged as set in the digital zoom factor. If you set the digital zoom factor to greater than the enlarged zoom factor for the compensation, the DIS function will be deactivated.

INTELLIGENCE



You can set the motion detection and tracking in the INTELLIGENCE menu.

MOTION [OFF,TRACKING,DETECTION]

TRACKING

Detects and tracks a moving object.

DETECTION

Detects a moving object.

= Note ·

- If it is set to DETECTION, you can not set such functions as FIXED/MOVED and FENCE in the ADVANCED menu.

ADVANCED [OFF, FIXED/MOVED, FENCE]

Detects a motion of an object and displays an image of any moving object before tracking the movina route.

FENCE

This is to detect if a moving object passes through the specified LINE or AREA.

In a condition where a moving object is detected in an analysis of the previous and current frames whose movement overlaps a certain area, the system displays "PASS" if the object's center line passes through the line while it displays "ENTER" or "EXIT" if the center point passes through the area.



You can set the position and detection direction of the LINE, and the size and position of the AREA.

- How to set the line

ONI

(CE)

nes

line

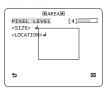
ER"

ne



- If you press the SETUP switch with the LINE option set to ON, you can specify the position and detection direction of the line.
- ② If you change the PIXEL LEVEL for setting the position, specify the pixel that moves by a single pressure of the ▲ ▼ ◀ ▶ switch.
- ③ In <POINT>, you can specify the first position of the line by pressing the SETUP switch once, and the second position by pressing the switch again. Use the ▲ ▼ ◀ ▶ switch to specify the position.
 - Set each position of the two points and press the SETUP switch to complete the positioning.
- (4) If you change the **DIRECTION**, you can specify the detection direction. The detection direction based on the defined two points will be displayed on the screen.

- How to set the area



- If you press the SETUP switch with the AREA option set to ON, you can specify the position and size of the area.
- ② If you change the PIXEL LEVEL for setting the position, specify the pixel that moves by a single pressure of the ▲ ▼ ◀ ▶ switch.
- ③ In <SIZE>, press the SETUP switch and use the ▲ ▼ ◀ ▶ switch to adjust the size. Press the SETUP switch again to complete the sizino.
- (4) In <LOCATION>, press the SETUP switch and use the ▲ ▼ ◀ ► switch to specify the position. Press the SETUP switch again to complete the positioning.

Note:

- If you set the LINE of the FENCE to ON, PRIVACY 12 will
 not be available.
 Functions of FENCE, PIP, DIS and DIGITAL ZOOM (if the
 digital zoom factor is set to larger than 1x) can not be
 used simultaneously.
- In the boundary of the defined AREA and LINE, a FENCE detection error may occur if two or more moving objects overlap with each other or one object separates in multiple directions.

FIXED/MOVED

If an object on the screen suddenly disappears or an object comes out of nowhere and stays for a certain time, the area will be displayed.

A detection (FIXED/MOVED) error may occur if:

- multiple motions occur continuously in random directions
- a fixed object moves in one position continuously
 a second object screens the first moving object
 - Enalish 23

♦ MASK AREA [1~4]

Specify a detection exception area to mask.

Select a mask number and specify the size and position.



❖ DISPLAY

[ON, OFF]

With the DISPLAY option set to ON, a motion or a set ADVANCED function will be displayed on the screen, if detected.

SENSITIVITY

[1~7] Set the sensitivity of the motion detection.

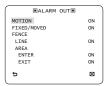
* RESOLUTION

[1~5]

If setting it to high, the camera can detect even a trivial movement of the target.

ALARM OUT

If you set a desired menu item to ON, the camera will sound an alert if it detect the appropriate motion.



PRIVACY ZONE SETUP



The PRIVACY function will protect your privacy by screening the privacy area that you have specified during monitoring. You can specify up to 12 privacy

If you set the PRIVACY SET to ON, your PRIVACY ZONE settings will be applied.

You can change the style to adjust the mosaic size and color of the PRIVACY ZONE

= No



Use the ▲ ▼ ◀ ▶ switch to select one from PRIVACY 1 through 12.

Select one from PRIVACY 1~12 and press the SETUP switch to confirm your setting. You can specify a pixel that moves as you change the PIXEL LEVEL to set the position.



- How to set the point

You can set each position of the 4 points.

- (i) If you press the SETUP switch in <POINT>, you will see the points available in the PRIVACY ZONE. Each time you press the SETUP switch, the points available will move.
- ② Use the ▲ ▼ ◀ ► switch to set the position of each point. Set each position of the four points and press the SETUP switch to complete the positioning.
- How to set the position

You can move the position of the overall area.

- By pressing the SETUP switch in <POSITION>, you can move the overall position of the privacy zone.
- ② Use the ▲ ▼ ◀ ► switch to move the position and press the SETUP switch to confirm it.

Note:

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- If more than one PRIVACY ZONE is specified and the PRIVACY SET is set to ON, the PIP function will be deactivated.
- If the 12th PRIVACY ZONE is specified, the LINE function of FENCE will be deactivated.

OTHER SET



LANGUAGE

You can slect a preferred language for the screen display.

Select your language by using the left and right keys.

❖ FACTORY DEFAULTS

All the settings will be restored to the factory

However, the settings of PROTOCOL, BAUD RATE, ADDRESS and LANGUAGE will not be restored to the default.

♦ OSD COLOR [BW, R/G/B]

You can set the OSD(On-screen Display) color to COLOR or B/W.

COMMUNICATION

The **COMMUNICATION** menu is used to configure the settings regarding RS-485 communications.

Use the rear panel of the camera to connect to RS-485



[Camera I/O Connector]

Use the ▲ ▼ ◀ ▶ switch to specify the protocol, baud rate and address (0~255) for communications.

❖ PROTOCOL

Select a communication protocol.

◆ BAUD BATE

Select a baud rate.

Note:

The baud rate differs, depending on the specified protocol.

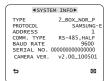
ADDRESS

[0~255]

You must specify a unique address for each camera in the same RS-485 network.

To control a specific camera, you must match the address of the camera with that of the DVR or the controller.

SYSTEM INFORMATION



You can view the system information including the protocol, address, baud rate, serial number, camera version, and EEP version.

❖ Initial Configuration Table

Camera Configuration					
CAMERA ID	OFF				
IRIS	ALC				
AGC	VERY HIGH				
MOTION	(F.FAST)				
DNR	MID				
SHUTTER	OFF				
SENS-UP	AUTO x4				
FLICKERLESS	(OFF)				
XDR	MID				
DAY/NIGHT	AUTO				
DIGITAL ZOOM	OFF				
DETAIL	[2]				
AGC COLOR SUP	MID				
REVERSE	OFF				
POSI/NEGA	+				
PIP	OFF				
DIS	OFF				
V-SYNC	INT				

SPECIFICATIONS

Items	Sub-items				SCB-	-4000N				
Camera Type				CCTV Camera (DAY/NIGHT)						
	Device		1/2" Exview-HAD IT CCD							
Image	Divolo	То	Total		811 x 508					
Pixels		Effe	ctive				768 x	494		
	System						Interl	ace		
	Scanning Line						525 I	ines		
	Frame					3	30frame	e/1sec		
Scanning	Horizontal	Interna	Mode				15,73	4 Hz		
	Frequency	Line-loc	k Mode				15,75	0 Hz		
	Vertical	Interna	Mode				59.94	1 Hz		
	Frequency	Line-loc	k Mode				60 1	Hz		
			Condition				fin. Scene	illumination		
		Sens-up OFF	F No.	50 Le	vel IRE	DAY 0.10	Lux	NIGHT 0.010	Lux	
Min. Scene		OFF	1.2	30	RE	0.06	Lux	0.006	Lux	
Illumination		OFF 512 times	1.2	15 50	IRE IRE	0.03	Lux	0.003	Lux	
		512 times	1.2	30	RE	0.00020	Lux	0.00001	Lux	
		512 times	1.2	15	RE	0.00006	Lux	0.00001	Lux	l
	Number of Privacy Zone		12 (Polygonal Method)							
	Day/	Night		DAY/NIGHT/AUTO/EXT						
	Motion (Detection		OFF/Tracking/Detection						
	eXtended Dyna	mic Rang	e(XDR)	Off/On (Level Setting)						
		oom		x1 ~ x16 (x0.1 STEP)						
	P	IP .		Off/On						
	High Spe	ed Shutte	er	1/60 ~ 1/10Ksec (OSD/External Control)					1)	
	Flick	erless		Off/On						
	Sen	s-Up		x2 ~ x512						
Functions	В	LC		Off/On (Area Setting)						
		GC		Off/On (Max.Level Setting)						
		LC		Off/On (~ 1/200K sec)						
		Lock		Off/On (Phase Control)						
		era ID		Off/On (Max.54ea/2Line)						
		Balance		ATW1/ATW2/AWC/3200K/5600K						
	Digital Noise F		. ,	Off/On (Adaptive 3D+2D)						
	Digital Image S		n(DIS)				Off/			
	Intelligent Video		Fixed/Moved, Fence							
	Etc. Fi	unction		Detail, Reverse(H/V), Posi/Nega						

Items	Sub-items		SCB-4000N			
Resolution	Horiz	ontal	600 TV Lines			
nesolution	Verl	tical	350 TV Lines			
Video Output	-		VBS 1.0Vp-p, 75 Ω			
S/N Ratio	S/N Ratio		Approx. 52dB			
Lens	Lens Dri	ve Type	MANUAL/AI(VIDEO/DC)			
Lens	Mount	t Type	CS/C			
Alarm	Inp	out	N/A			
Alarm	Out	put	1 Output			
Remote	Coaxitron (Data	On Coax cable)	Yes (with SCX-RD100)			
Control	RS-485		Yes (Multi Protocol, 8ea)			
Environmental	Operating T	emperature	-10°C ~ +50°C			
Conditions	Hum	idity	Less than 90%			
	Power Requirement		AC24V ± 10%(60Hz ± 0.3Hz)			
	rower ne	quiement	DC12V ± 10%			
Power	Power Cor		In normal operation: 2.3W			
	(With D	C Lens)	In switching the DAY/NIGHT filter: 3.0W			
	LED In	dicator	Yes			
	Dimensions	Net	64(W) x 58(H) x 109.2(D) mm			
	(WxHxD)	Package	173(W) x 99(H) x 115(D) mm			
Physical Specification	Weight	Net	305g			
	vveignt	Package	530g			
	Color	Body	Silver			

Device	Items	Sub-items			SCB-4000P/SCB-4000PH						
Image	Camera Type				CCTV						
Pixels		Device			, , ,						
System	Image	Total		otal	795 x 596						
Scanning Line	9-	Pixels	Effective		752 x 582						
Frame	Scanning	System			Interlace						
Scanning						625 lines					
Min. Scene Illumination Internal Mode Is,625 Hz		Frame	me		25frame/1sec						
Vertical Internal Mode 50 Hz			Internal Mode		15,625 Hz						
Vertical Frequency Line-lock Mode 50 Hz		Frequency	Line-lock Mode		15,625 Hz						
Min. Scene Service		Vertical	Internal Mode		50 Hz						
Min. Scene FNo. Lest DAY NIGHT Lest CFF 12 50 PE 0.10 Lax 0.000 Lax 0		Frequency	Line-lock Mode		50 Hz						
Min. Scene OFF 12 50 RE 0.10 Lax 0.010 Lax OFF 12 30 RE 0.05 Lax 0.005 Lax OFF 12 15 RE 0.05 Lax 0.003 Lax 0.003 Lax 0.000		Conditio			Min. Scene illumination						
Min. Scene Illumination											
	Min. Scene	<u> </u>									
St2 lmes	Illumination		OFF	1.2	15			Lux	0.003 Li		
Stimes 12 15 FE 0,0000 Lux 0,00001 Lux	Functions										
Number of Privacy Zone											
Motion Detection OFF/Tracking/Detection		Number of F									
EXtended Dynamic Range(XDR)					DAY/NIGHT/AUTO/EXT						
D-Zoom Max. x16		Motion Detection			OFF/Tracking/Detection						
PIP		eXtended Dynamic Range(XDR)			Off/On (Level Setting)						
High Speed Shutter		D-Zoom			Max. x16						
Flickerless		PIP			Off/On						
Sens-Up x2 - x512		High Speed Shutter			1/50 ~ 1/10Ksec (OSD/External Control)						
Functions BLC		Flickerless			Off/On						
AGC Offi/On (Max.Level Setting) ELC Offi/On (1-1/200K sec) Line Lock Offi/On (Phase Control) Camera ID Offi/On (Max.54ea/2Line) White Balance ATW1/ATW2/AW0/3200K/5600K Digital Noise Reduction(DNF) Off/On (Adaptive 3D+2D)		Sens-Up			x2 ~ x512						
ELC		BLC									
Line Lock		AGC			Off/On (Max.Level Setting)						
Camera ID Off/On (Max.54ea/2Line) White Balance ATW1/ATW2/AWC/3200K/5600K Digital Noise Reduction(DNR) Off/On (Adaptive 3D+2D)		ELC			Off/On (~ 1/200K sec)						
White Balance ATW1/ATW2/AWC/3200K/5600K Digital Noise Reduction(DNR) Off/On (Adaptive 3D+2D)		Line Lock			Off/On (Phase Control)						
Digital Noise Reduction(DNR) Off/On (Adaptive 3D+2D)		Camera ID			Off/On (Max.54ea/2Line)						
		White Balance			ATW1/ATW2/AWC/3200K/5600K						
Digital Image Stabilization(DIS) Off/On					` ' '						
		Digital Image Stabilization(DIS)			Off/On						
Intelligent Video Fixed/Moved, Fence		Intelligent Video			Fixed/Moved, Fence						
Etc. Function Detail, Reverse(H/V), Posi/Nega		Etc. Function			Detail, Reverse(H/V), Posi/Nega						
Resolution Horizontal 600 TV Lines	Decelotion.	Horizontal			600 TV Lines						
Resolution Vertical 350 TV Lines	Resolution	Vertical			350 TV Lines						

Items	Items Sub-items		SCB-4000P/SCB-4000PH					
Video Output		-	VBS 1.0Vp-p, 75 Ω					
S/N Ratio	S/N	Ratio	Approx. 52dB					
	Lens Dr	ive Type	MANUAL/AI(VIDEO/DC)					
Lens	Moun	t Type	CS/C					
	Inp	out	N/A					
Alarm	Out	put	1 Output					
Remote	Coaxitron (Data	On Coax cable)	Yes (with SCX-RD100)					
Control	RS-	485	Yes (Multi Protocol, 8ea)					
Environmental	Operating Temperature		-10°C ~ +50°C					
Conditions Humidity		nidity	Less than 90%					
	Power Re	quirement	SCB-4000P: AC24V ± 10%(50Hz±0.3Hz) DC12V ± 10% SCB-4000PH: AC220V ± 10%(50Hz±0.3Hz)					
Power		nsumption C Lens)	In Normal operation: SCB-4000P: 2.3W SCB-4000P: 3.5W In switching the DAY/NIGHT filter: SCB-4000P:2.9W SCB-4000P: 4.1W					
	LED In	dicator	Yes					
	Dimensions (WxHxD)	Net	SCB-4000P: 64(W) x 58(H) x 109.2(D) mm SCB-4000PH: 64(W) x 58(H) x 129.2(D) mm					
	(**************************************	Package	173(W) x 99(H) x 115(D) mm					
Physical Specification		Net	SCB-4000P: Approx. 305g SCB-4000PH: Approx. 395g					
	Weight	Package	SCB-4000P : Approx. 530g SCB-4000PH: Approx. 620g					
	Color	Body	Silver					



SALES NETWORK

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