

SALES NETWORK

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High Resolution Mini Dome Camera SCD-2010/2030 User Guide

May lower image quality.

Avoid touching the camera lens.

The lens is the most important component of the

camera. Be careful not to smear it with fingerprints.

Never keep the camera face to

Before installing and operating this product. please read this manual thoroughly.

Precautions

Do not install under extreme

Use only under temperature conditions between

-10°C and +50°C. Provide good ventilation when

Severe lighting changes or flickering may hinder

Do not drop the camera or subject

temperature conditions.

using in high temperature conditions.

lighting conditions

it to physical shock.

Do not install under unstable



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.

Warnings & Cautions

This information is provided to ensure your safety and to prevent any losses, financial or otherwise. Please read it carefully and use the product accordingly.

- * For product inquiries, please contact the retail shop where you bought the camera. The use of equipment such as an aerial ladder while providing after-sales service shall be at your expense.
- * Separate the power plug during a thunder storm.
- *This product is support equipment for surveillance system. Therefore, we can't compensate for material loss and/or personal injuries by robbery, fire, natural disaster or other such events.

Warning/Attention/Special Mark Messages



Ignoring this information may result in material loss and/or serious personal injuries including death.



material loss and/or a slight injuries.

Ignoring this information may result in





Indicates "No Disassembling



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

This marking shown on the product or its Bershire, indicates that it should not be disposed with other household wasters as the end of its working Ifs. To prevent possible harm to the environment or human health from uncontrolled waster disposed, please segarate this from other types of wasters and recycle it responsibly to promote the sustainable neurosc

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tusiness users should contact their supplier and check the terms and conditions of the pur This product should not be mixed with other commercial wastes for disposal.

May cause a product malfunction. May damage the CCD MINI DOME CAMERA (5) User Guide





ENGLISH

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may he of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying

INFORMATION-This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the ECC 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 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 other than specified power source.
- ◆ 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.

Before operating the camera, confirm the camera model and correct input power voltage. To help you understand this manual thoroughly, we'll introduce our model description.

- SCD-2010 SERIES, 2030 SERIES
- NTSC models : SCD-2010N, SCD-2030N
- PAL models: SCD-2010P, SCD-2030P

SIGNAL SYSTEM

■ Model Description

SCD-2010X SCD-2030X

 SIGNAL SYSTEM N →NTSC Model

P → PAL Model

Features

High Resolution

By adopting a diagonal 6mm(1/3") 410,000(NTSC) pixel, 470,000(PAL) pixel SONY CCD, the -camera produces clear picture quality with a horizontal resolution of 600 TV lines for color.

Excellent Sensitivity

The built-in high sensitivity COLOR CCD produces a clear image even in 0.04 Lux or lower illumination.

SSNR3 Function

(Samsung Super Noise Reduction)

The high-performance W-V DSP chip effectively removes low-light gain noise and afterimage to provide clear images even in dark environments.

Pan and Tilt

Pan and tilt are available after installing camera.

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Do not expose the camera to radioactivity.



If exposed to radioactivity, the CCD will fail.

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

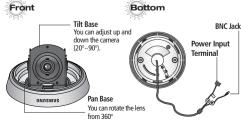


May cause a product malfunction. Wipe dry any liquids. Liquids may contain minerals that are corrosive to electronic components.

Notes

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

Getting to Know Your Camera



Accessories







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Installation

Installing Camera

1. Fix the camera to a ceiling using two screws.

- 2. After fixing it, adjust its pan base and tilt base properly.
- 3. After setting them, secure the shield case and dome-cover.



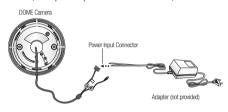
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Connecting to Power

Connect the adapter to the power input connector as shown in the figure below.

Use a DC 12V. (The Adapter is not provided with the Dome Camera.)



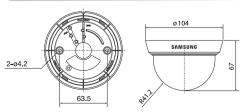
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Troubleshooting

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

- The image on the screen is dim.
- Check if the lens are stained. If dirty, clean the lens with soft, clean cloth.
- The image is dimmer at night than daytime. If the focus is not right, adjust it at daytime.
- The contrast on the screen is too weak.
- Adjust the contrast feature of the monitor.
- If the camera is exposed under too strong light, change the camera position.
- Adjust the lens BACK FOCUS again.
- The camera is not work properly, and the surface of the camera case is hot.
- Check that you have connected the camera to a proper power (DC 12V).

Dimension



For DC Power Type

Resistance of copper wire [at 20C°(68°F)]

Ī	Copper wire size (AWG)	#24(0.22mm²)	#22(0.33mm²)	#20(0.52mm²)	#18(0.83mm²)
Ī	Resistance (Ω / m)	0.078	0.050	0.030	0.018
I	Voltage Drop (V/m)	0.028	0.018	0.011	0.006

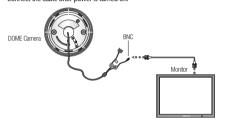
- As the voltage drop according to the length of the cable in the above table, a camera may malfunction if there is an excessively long cable run.

 *Voltage for camera operation: 12V DC±10%
- * Voltage drops in the above table are variable according to types of cable manufacturer.

Connection to Monitor

Connect the VIDEO-OUT jack to the VIDEO-IN jack of monitor.

- As a connecting method varies according to instruments, refer to the manual supplied with the instrument.
- Connect the cable after power is turned off.



Specification

	SCD-2010N	SCD-2030N	SCD-2010P	SCD-2030P	
ELECTRICAL					
Input Voltage	DC 12V ±10%				
Power Consumption	Max 1.8W				
VIDEO					
Imaging Device	1/3 inch, Sony Supe	1/3 inch, Sony 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				
Frequency	H:15.734KHz V:	H:15.734KHz V:59.94Hz H:15.625Kl		Hz V:50.00Hz	
Horizontal Resolution	600TVL				
Min. Illumination	0.04 Lux / F1.2				
S / N (Y signal)	52dB (Weight On, A	52dB (Weight On, AGC Off)			
Video Output	CVBS: 1.0Vp-p, 75	Ω composite			
LENS					
Focal Length	3mm	6mm	3mm	6mm	
Angular Field of View	H:95°, V:75°, D:120°	H:46°, V:34°, D:60°	H:95°, V:75°, D:120°	H:46°, V:34°, D:60	
PAN / TILT					
Pan / Tilt Range	0° ~ 352° / 0° ~ 75	0° ~ 352° / 0° ~ 75°			
OPERATIONAL					
Shutter Mode	ESC, A.F.IX, Manual On 10ff (Level adjustable) On 0ff (Level adjustable) BLC / HLC / OFF COLOR / BW / AUTO (Electronic Type) Low / High / Off ATW / Outdoor / Indoor / Manual / AWC (1,700°K – 11,000°K)				
Lens Shade					
SSDR					
Backlight Compensation					
Day & Night					
Gain Control					
White Balance					
SENS-UP	Auto / Off (Selectal	ole x2 ~ x512)			

Panning & Tilting Control

You can adjust the Panning and Tilting angle freely. (Panning angle: 360° , Tilting angle: $20^\circ \sim 90^\circ$)



- Adjustment Panning angle: After attaching the dome camera to a ceiling, adjust the panning angle for better monitoring area by rotating the Pan Base. The panning angle can be adjusted 360° freely.
- 2) Adjustment Tilting angle: After attaching the dome camera to a ceiling, adjust the tilting angle for better monitoring area by rotating the Till Base. The tilting angle can be adjusted to 20° from 90° freely. (based the ceiling surface).

Notes

- After loosening Pan or Tilt Base holding screws, adjust its angle. And then tighten screws again.
- In case of adjusting the tilting, do not take the lens for preventing hysical shocks. Please take the Tilt. Base.
- This dome camera is to be installed on the ceiling by factory default.

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Specification

Motion Detection	On / Off (8 Programmable zones) On / Off (12 Programmable zones) On / Off (Level adjustable)		
Privacy Masking			
SSNR3			
Digital Zoom	On / Off (x1 ~ x16)		
DIS	On / Off		
Camera Title	On / Off (Displayed 15 Characters)		
Sharpness	On / Off (Level adjustable) On / Off		
Flip / Mirror			
Communication	Coaxial (Pelco Coaxitron)		
Electronic Shutter Speed	1/60 ~ 1/120,000 sec	1/50 ~ 1/120,000 sec	
On Screen Display	English, Korean, Japanese, Spanish, French, Portuguese, Taiwanese Turkish, Portuguese Turkish, Portuguese		
ENVIRONMENTAL			
Operating Temperature / Humidity	nperature / -10°C ~ +50°C / Less than 90% RH		
MECHANICAL			
Dimension / Weight Ø104 x 67mm / 180g			

* The specification for this product may change without prior notice for product improvement.

Camera Operation

Built-in functions of the SCD-2010, SCD-2030 Camera include the following

Auto Functions	Setting	Descriptions
Electronic Shutter Speed	ESC	The shutter is controlled according to the brightness of screen by automatically.
WHITE BALANCE	ATW	It can be used within the color temperature range 1,700K ~ 11,000K.
BACKLIGHT	OFF	It helps view a desired area of picture at the backlight condition.
GAIN CONTROL	HIGH	The gain increases or decreases within the range of 6dB~34dB.
SSNR3 (Noise Reduction)	ON	There is sufficient reduction in noise levels without causing much ghost imaging.
SENS-UP	AUT0	It helps maintain a bright, clear screen image by automatically detecting changes in the level in low light levels without causing much ghost imaging.
SHARPNESS	ON	The outline of the video image becomes cleaner and more distinctive.
LENS SHADE	ON	It helps correct shading of Lens.

* If you need to control OSD menu, It needs control KEY or coaxial controller.

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Declaration of Conformity

Application of Council Directive(s)

Manufacturer's Name	SAMSUNG TECHWIN CO., LTD		
Manufacturer's Address	SAMSUNG TECHWIN CO., LTD		
	42, SUNGJU-DONG CHANGWON-CITY,		
	KYUNGNAM, KOREA, 641-120		
European Representative Name			
European Representative Address			
Equipment Type/Environment	MINI DOME CAMERA		
Model Name	SCD-2010/2030		
Beginning Serial NO.	C53C6V3Z200001X, C58I6V3Z200001X		
Year of Manufacture	2010.02.01		
Conformance to	EN 55022 : 2006		
	EN 50130-4: 2003		

2004 / 108 / EC

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

Manufacturer	SAMSUNG TECHWIN CO., LTD	Legal Representative in Europe
Signature	130 Gru	Signature
Full Name	BONJENG GU	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2010. 02. 01	Date