

HIGH RESOLUTION MINI DOME CAMERA INSTRUCTION MANUAL SID-50



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 be of sufficient magnitude to constitute a risk of electric shock to persons.



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

INFORMATION-This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

WARNING - To prevent electric shock and risk of fire hazards:
◆ Do NOT use 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.

SALES NETWORK

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P/No. : Z8806-0715-01A
VAN 06_03

WARNING

The camera needs periodic inspection.

Contact an authorized technician for inspection.

Stop using your camera when you find a malfunction.

If you use your camera around smoke or unusual heat for a long time, a fire may be caused.

Do not install the camera on a surface that can not support it.

Unless the surface is suitable, it could cause falling or other hazards.

Do not handle the camera with wet hands

It could cause an electric shock.

PRECAUTIONS

Do not install the camera in extreme temperature conditions.



Only use the camera under conditions where temperatures are between -10°C and +50°C. Be especially careful to provide ventilation when operating under high temperatures.

Do not install or use the camera in an environment where the humidity is high.



It can cause the image quality to be poor.

Do not install the camera under unstable lighting conditions.



Severe lighting change or flicker can cause the camera to work improperly.

Do not disassemble the camera.



Never use the camera close to a gas or oil leak.

It can cause malfunctions to occur.



There are no user-serviceable parts inside it.

Do not touch the front glass of the camera.



It is one of the most important parts of camera. Be careful not to be stained by fingerprints.

Do not drop the camera or subject them to physical shocks.



It can cause malfunctions to occur.

Notes

- If the camera is exposed to spotlight or object reflecting the strong light, smear or blooming may occur.
- Please check the power whether it satisfies the normal specification before connecting the camera.

Never keep the camera face to strong light directly.



It can damage the CCD.

Do not expose the camera to rain or spill beverage on it.



If it gets wet, wipe it dry immediately. Liquids can contain minerals that corrode the electronic components.

Thank you for purchasing a **SAMSUNG CCD CAMERA**. Before operating the camera, confirm the camera model and proper input power voltage. In order that you can understand this manual thoroughly, we'll introduce our model description.

■SID-50 SERIES

- NTSC models
SID-50N

- PAL models
SID-50P

■Model Description

- SID-50X

Signal system

- SIGNAL SYSTEM
N → NTSC Model
P → PAL Model

FEATURES

Horizontal Resolution 540 TV Lines

Clear image quality has been achieved by employing a CCD with 410,000 pixels(NTSC), 470,000 pixels(PAL) and optimized WINNER3 DSP CHIP which provides a horizontal resolution of 540 TV lines.

High Sensitivity

The built-in high sensitivity COLOR CCD enables a clear image even in 0.05Lux or lower illumination.

SSNR (Samsung Super Noise Reduction)

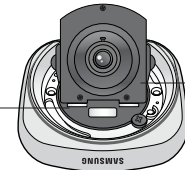
By using built-in SSNR function manufactured by SAMSUNG TECHWIN, the amount of low illumination noise has been significantly reduced, and the signal-to-noise ratio (SN) as well as horizontal resolution have been improved, resulting in a clear and sharp image display even in the dark.

Pan and Tilt

Pan and tilt are available after installing camera.

GETTING TO KNOW YOUR CAMERA

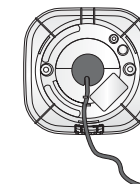
Front



Pan Base
You can rotate the lens from 360°

Tilt Base
You can adjust up and down the camera(20°~90°).

Bottom



Power Input Terminal

BNC Jack

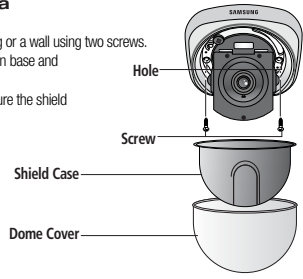
Accessories



INSTALLATION

Installing Camera

1. Fix the camera to a ceiling or a wall using two screws.
2. After fixing it, adjust its pan base and tilt base properly.
3. After adjusting them, secure the shield case and dome cover.



MINI DOME CAMERA 8 USER'S MANUAL

Notes

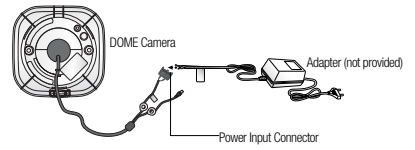
- When installing the camera on a ceiling or a wall, not to disturb adjustment of Tilt Base angle fix the BNC-Power Cable on the Pan Base clip.

<Installing the camera on a ceiling>

<Installing the camera on a wall>

Connection to Power

- Connect the adapter to the power input connector as shown in the figure below. Use a DC12V 500mA. (The Adapter is not provided with the Dome Camera.)



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CAMERA OPERATION

The Sid-50 includes the following built in functions

Auto Functions	Setting Value	Descriptions
Electronic Shutter Speed	ESC	The speed is controlled according to the brightness of the screen.
WHITE BALANCE	ATW	It can be used within the color temperature range 1,800K-10,500K(Ex fluorescent light, outdoor, sodium vapor lamp or inside tunnels)
BACKLIGHT	MIDDLE	The gain increases within the range of 6dB-34dB
GAIN CONTROL	MIDDLE	The gain increases or decreases within the range of 6dB-34dB
SSNR (Noise Reduction)	LOW	There is sufficient reduction in noise levels without causing much ghost imaging
SENS UP	ON	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 as the level of SHARPNESS increases.

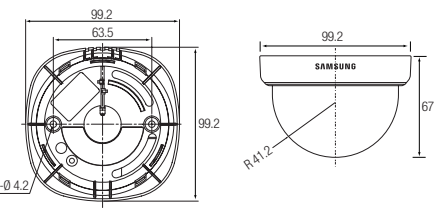
MINI DOME CAMERA 12 USER'S MANUAL

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 (DC12V).

DIMENSION



MINI DOME CAMERA 13 USER'S MANUAL

For DC Power Type

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

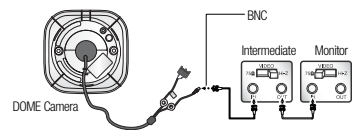
Copper wire size (AWG)	#24(0.22mm ²)	#22(0.33mm ²)	#20(0.52mm ²)	#18(0.83mm ²)
Resistance (Ω / m)	0.078	0.050	0.030	0.018
Voltage Drop (V/m)	0.028	0.018	0.011	0.006

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

Connection to Monitor

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

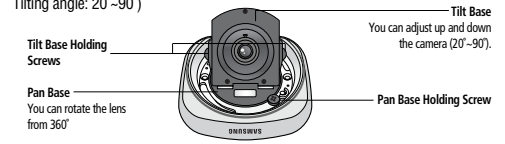
- As a connecting method varies according to instruments, refer to the manual supplied with the instrument.
- Connect the cable after power is turned off.
- Set the 75Ω / Hi-Z selection switch. If it is an intermediate device, switch it to Hi-Z and if it is final device, switch it to 75Ω. (Please refer to the Monitor Manual.)



MINI DOME CAMERA 10 USER'S MANUAL

Panning & Tilting Control

You can adjust the Panning and Tilting angle freely. (Panning angle: 360°, Tilting angle: 20°-90°)



- 1) Adjustment Panning angle: After attaching the dome camera to a ceiling or a wall, 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 or a wall, adjust the tilting angle for better monitoring area by rotating the Tilt 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 physical shocks. Please take the Tilt Base.
- This dome camera is to be installed on the ceiling by factory default. In case of using camera on the wall, readjust the Tilt angle as page 8 (Notes).

MINI DOME CAMERA 11 USER'S MANUAL

SPECIFICATION

ITEM	SID-50N	SID-50P
Power Source	DC 12V±10%/Max. 1.8W	
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)
SIZE	1/3 inch Super HAD CCD	
Sync.	Scanning System	2:1 Interlace
	Synchronization	Internal Only
E L E C T R I C A L	Frequency	Horizontal:15.734 KHz/Vertical :59.94 Hz Horizontal: 15.625 KHz/Vertical : 50Hz
	LENS(Built-in)	Built-in Fixed Lens 120° f=3.0mm, F2.0
R I C A L	Resolution	540 TV Lines(Min.)
	Video Output	CVBS : 1.0Vp-p/75 Ω
T R I C A L	SN(Y signal)	50 dB (AGC Off,Weight ON)
	Min.Illumination	0.05Lux/F1.2(Sens-up), 0.3Lux/F1.2
A U T O F U N C T I O N S	Electronic shutter speed	AUTO
	WHITE BALANCE	AUTO
	BACKLIGHT	AUTO
	Gain Control	AUTO
	SENS-UP	AUTO
	SSNR(Noise Control)	AUTO
	SHARPNESS	AUTO
Monitoring Angle	Pan	Manual 360°
	Tilt	Manual 20° - 90°
Operating temperature/Humidity	-10°C to +50°C / 30% to 80% RH	
Dimension	99.2mm(W) x 99.2mm(H) x 67mm(D)	
Weight	200g	

MINI DOME CAMERA 14 USER'S MANUAL

DECLARATION OF CONFORMITY

Application of Council Directive(s)	89 / 336 / EEC
Manufacturer's Name	SAMSUNG TECHWIN CO., LTD
Manufacturer's Address	SAMSUNG TECHWIN CO., LTD 42, SUNGJU-DONG CHANGWON-CITY, KYUNGNAM, KOREA, 641-120

European Representative Name	MINI DOME CAMERA
European Representative Address	SID-50
Equipment Type/Environment	S6300001
Model Name	2006_03_01
Beginning Serial No.	EN 50081-1 : 1992
Year of Manufacture	EMC-Directive 89/336 EEC and 92/31/EEC
Conformance to	EN 50130-4 : 1996

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

Manufacturer Signature	SAMSUNG TECHWIN CO., LTD <i>Young Taek, SON</i>	Legal Representative in Europe Signature
Full Name	YOUNG TAEK SON	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2006. 03. 01	Date

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

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

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.