
SAMSUNG TECHWIN

IR Dome Camera

User Manual

SCD-1020R



IR Dome Camera

User Manual

Copyright

©2011 Samsung Techwin Co., Ltd. All rights reserved.

Trademark

SAMSUNG TECHWIN  is the registered logo of Samsung Techwin Co., Ltd.

The name of this product is the registered trademark of Samsung Techwin Co., Ltd.

Other trademarks mentioned in this manual are the registered trademark of their respective company.

Restriction

Samsung Techwin Co., Ltd shall reserve the copyright of this document. Under no circumstances, this document shall be reproduced, distributed or changed, partially or wholly, without formal authorization of Samsung Techwin.

Disclaimer

Samsung Techwin makes the best to verify the integrity and correctness of the contents in this document, but no formal guarantee shall be provided. Use of this document and the subsequent results shall be entirely on the user's own responsibility. Samsung Techwin reserves the right to change the contents of this document without prior notice.

Warranty

If the product does not operate properly in normal conditions, please let us know. Samsung Techwin will resolve the problem for free of charge. The warranty period is 3 years. However, the followings are excluded:

- If the system behaves abnormally because you run a program irrelevant to the system operation.
- Deteriorated performance or natural worn-out in process of time

safety information



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 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 prevent damage which may result in fire or electric shock hazard, 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.
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 shock 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 lightning. 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. Do not expose the camera to radioactivity. Radioactivity exposure may damage the CCD.

safety information

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.



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, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them 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 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 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

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.

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 cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
13. 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

Contents

CAMERA

- 8 Part Names
- 8 Package Contents

6

CONNECTING WITH OTHER DEVICE

- 9 Installing the camera
- 10 Adjusting the monitoring direction
for the camera

9

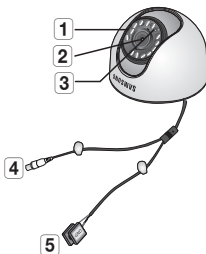
PRODUCT SPECIFICATION

- 11 Product specification

11

CAMERA

Part Names



Name		Description
1	IR LED	These infrared LED's are controlled by the illumination sensor.
2	Lens	Focal length of 3.6mm enables you to cover relatively longer range of monitoring.
3	Illumination Sensor	Detects incoming light to control the IR LED.
4	Video Output Jack	Connect the VIDEO-OUT jack to the VIDEO-IN jack of monitor.
5	Power Input Connector	Connect the adaptor to the power input connector

PACKAGE CONTENTS

				
Camera	Screw (3EA)	User manual		

connecting with other device

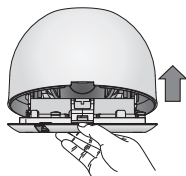
Installing the camera

Precautions before installation

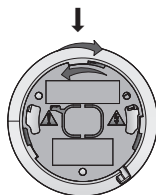
Ensure you read the following instructions before installing the camera:

- Select an installation site (ceiling or wall) that can endure at least 5 times of the camera weight.
- Stuck-in or peeled-off cables can cause damage to the product or a fire.

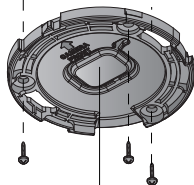
1. Hold down the bottom lock lever while removing the cover with the other hand.



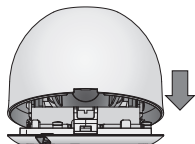
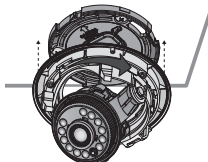
2. Press and hold the lock key outward (in the arrow direction) and turn the bracket counter clockwise to remove it.



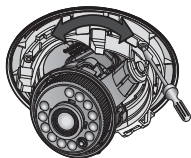
3. Use the provided screws (x3) to fix the bracket to a desired position (ceiling or wall).
 - Ensure that the <CAMERA FRONT> label on the bracket faces the direction for camera monitoring.



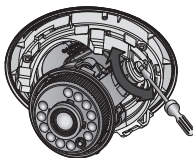
4. Arrange the cables through the bracket to the ceiling or wall.
If you intend to drill a hole in the installation site for the wiring purpose, remove the wiring cover to reveal a hole. Arrange the cables through the hole.
If you intend to arrange the cables without drilling a hole, use the empty area opposite to the <CAMERA FRONT> label side for the wiring purpose.
5. Mount the main unit onto the bracket.
Align the marking hole of the main unit with the <CAMERA FRONT> label of the bracket, and turn the unit in the <LOCK> direction.
6. Adjust the lens in a desired direction.
For adjusting the lens direction, refer to "Adjusting the monitoring direction for the camera".
7. Fix the cover to the main unit.
Align the lock key of the main unit with the latch of the cover. Press down the cover until you hear a click.



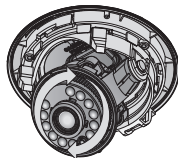
Adjusting the monitoring direction for the camera



Panning



Tilting



Lens rotation

You can adjust the camera direction only when the camera is fixed on the ceiling.

Then, turning the camera to the left or right is referred to as "Panning", while tilting the angle is "Tilting".

- If you want to adjust the panning direction, loosen the bottom screw and turn the camera to a desired direction. Then, tighten the screw back.
If you couldn't tighten the screw for positioning reasons, select a different screw hole and try again.
- The tilting is available between 0° and 60°. When you finish adjusting the tilt, tighten the tilt adjustable screw if you want to fix the angle.
- If you install the camera vertically on a slanting ceiling or wall, the video from the camera may not be displayed properly. If this is the case, adjust the lens direction to correct the display of the video.

specifications

SPECIFICATIONS

Item	SCD-1020R
Video	
Imaging Device	1/4" CMOS
Sensor Format	680 x 512
Scanning System	Interlace
Synchronization	Internal
Frequency	H : 15.734KHz / V : 59.94Hz
Horizontal Resolution	520 TV lines
Min. Illumination	0Lux (IR-LED ON)
S/N Ratio (Y Signal)	46dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite
Lens	
Focus Length	3.6mm
Max.Aperture Ratio	2
Angular Field of View	H: 56° / V: 42°
Operational	
Shutter Mode	Auto (Rolling Shutter)
Gain Control	Auto
White Balance	Auto (3200°K~6500°K)
Day/Night	Auto
Digital Noise Reduction	Auto
IR Distance	10m(IR LED 12EA)
Environmental	
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) Less than 90% RH

Item	SCD-1020R
Electrical	
Input Voltage	DC 12V
Power Consumption	2.2W
Mechanical	
Dimension (W x H)	Ø102 X H71.7
Weight	180g



SALES NETWORK

SAMSUNG TECHWIN CO., LTD.

Samsungtechwin R&D Center, 701, Sampyeong-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea, 463-400
TEL : +82-70-7147-8740~60, FAX : +82-31-8018-3745

SAMSUNG TECHWIN AMERICA Inc.

100 Challenger Rd. Suite 700 Ridgefield Park, NJ 07660
Toll Free : +1-877-213-1222 Direct : +1-201-325-6920
Fax : +1-201-373-0124
www.samsungcctvusa.com

SAMSUNG TECHWIN EUROPE LTD.

Samsung House, 1000 Hillswood Drive, Hillswood Business Park
Chertsey, Surrey, UNITED KINGDOM KT16 0PS
TEL : +44-1932-45-5300, FAX : +44-1932-45-5325

www.samsungtechwin.com
www.samsungsecurity.com

P/NO. : PT01-000620A