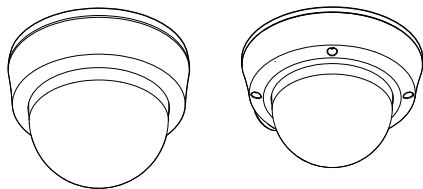


Network Camera

Quick Guide



Safety Precautions

WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Important Safeguards

1. Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

4. Attachments

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and/or Moisture

Do not use this equipment near water or in contact with water.

6. Placing and Accessories

Do not place this equipment on a wall or ceiling that is not strong enough to sustain the camera. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.



This equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

Do not place this equipment in an enclosed space. Sufficient ventilation is required to prevent an increase in ambient temperature which can cause malfunction or the risk of fire.

7. Power Sources

This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer or local power company.

You may want to install a UPS (Uninterruptible Power Supply) system for safe operation in order to prevent damage caused by an unexpected power stoppage. Any questions concerning UPS, consult your UPS retailer.

This equipment should be remain readily operable.

8. Power Cord

Operator or installer must remove power and TNT connections before handling the equipment.

9. Lightning

For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the equipment due to lightning and power-line surges. If thunder or lightning is common where the equipment is installed, use a surge protection device.

10. Overloading

Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

11. Objects and Liquids

Never push objects of any kind through openings of this equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

12. Servicing

Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

13. Damage requiring Service

Unplug this equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or the plug has been damaged.
- If liquid is spilled, or objects have hit the equipment.
- If the equipment has been exposed to rain or water.
- If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.
- If the equipment has been dropped, or the cabinet damaged.
- When the equipment exhibits a distinct change in performance — this indicates a need for service.

14. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

15. Safety Check

Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

16. Field Installation

This installation should be made by a qualified service person and should conform to all local codes.

17. Correct Batteries

Warning: Risk of explosion if battery is replaced by an incorrect type. Replace only with the same or equivalent type. Dispose of used batteries according to the instructions. The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

18. Tmra

A manufacturer's maximum recommended ambient temperature (Tmra) for the equipment must be specified so that the customer and installer may determine a suitable maximum operating environment for the equipment.

FCC Compliance Statement

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE 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 USERS WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THEIR OWN EXPENSE.

WARNING: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT. THIS CLASS OF DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE CAUSING EQUIPMENT REGULATIONS.

WEEE (Waste Electrical & Electronic Equipment)

Correct Disposal of This Product

(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.

Safety Symbols

Symbol	Publication	Description
	IEC60417, No.5031	Direct current

- Manufacturer reserves all rights concerning this document.
- Use or duplication of this document in part or whole without the prior consent of manufacturer is strictly prohibited.
- Contents of this document are subject to change without prior notice for reasons such as functionality enhancements.
- The information in this document is believed to be accurate as of the date of publication even though explanation about some functions may not be incorporated. The manufacturer is not responsible for any problems resulting from the use thereof. The information contained herein is subject to change without notice. Revisions or new editions to this publication may be issued to incorporate such changes.

This product contains software built partially on open-source content. Codes for the corresponding open-source content are available for download. For more information, refer to the software CD (OpenSourceGuide/OpenSourceGuide.pdf) or the open source guide accompanying this document.

Risk Group1	
	WARNING IR emitted from this product. Do not stare at operating lamp
Product tested against IEC62471	

Warning: This product emits infrared light. Do not look into the IR LED.

Accessories

Upon purchasing the product, check inside the box to make sure all the following accessories are included. Some parts may differ depending on the situation.

Item			
Network Camera	Ferrite Core	Open Source Guide	Quick Guide
Allen wrench *	Screws, Anchor (3 ea.)	Guide Pattern	Desiccant *

* An allen wrench and desiccant are included with *Vandal dome* models only.

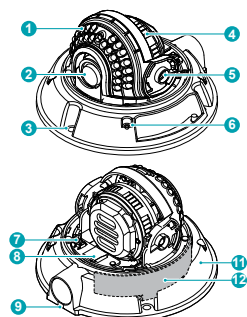
Overview



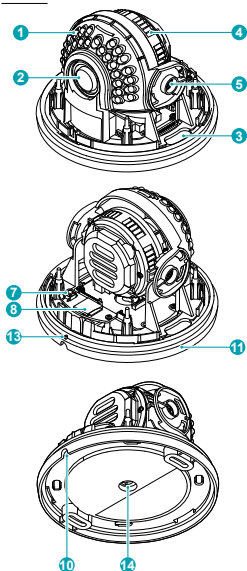
- Product color and design may vary depending on the model.
- For more details on each part name, refer to the operation manual.

Body

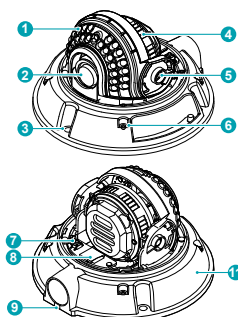
Heater Supported Model



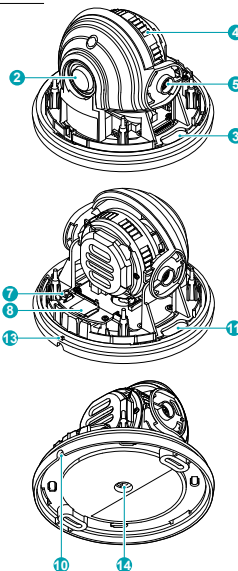
Plastic Dome IR LED Supported Model



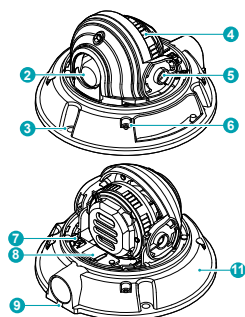
Vandal Dome IR LED Supported Model



Plastic Dome IR LED Non-Supported Model

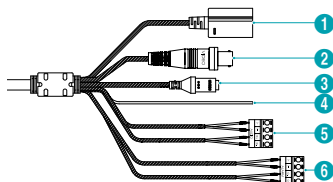


Vandal Dome IR LED Non-Supported Model



1	IR LED
2	Lens
3	Wall/Ceiling Installation Hole
4	Lens Rotator
5	Vertical Rotation Adjustment Screw
6	Dome Cover Screw Hole
7	Factory Reset Switch
8	SD Card Slot
9	Rubber
10	Side Cable Access Hole
11	Bottom Cover
12	Heater
13	Bottom Cover Securing Point
14	Ceiling Cable Hole

I/O Device Port



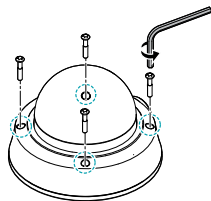
1	Network Port	4	FGND (Frame Ground)
2	Video Out	5	Audio In/Out
3	Power	6	Alarm In/Out

Camera Installation

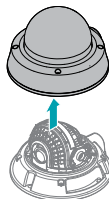
Removing the Dome Cover

Vandal Dome Model

- 1 Loosen the screws counterclockwise using the allen wrench provided with the product.

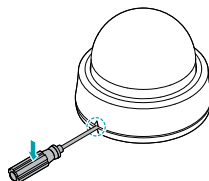


- 2 Remove the dome cover.

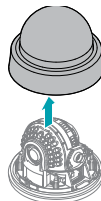


Plastic Dome Model

- 1 Insert a flat-head screwdriver into the groove indicated by the triangle mark on the dome cover, and push down the screwdriver.



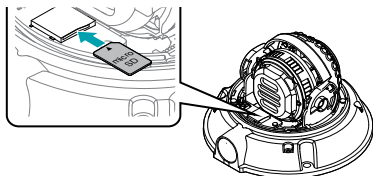
- 2 Remove the dome cover.



Inserting a SD Card

Vandal Dome Model

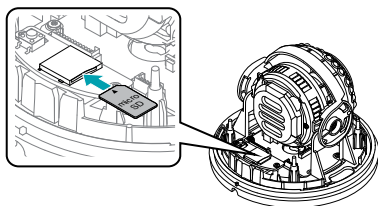
Insert a SD card into the SD card slot with the 'micro SD' print facing upward.



- ✓ Push the SD card until it disengages from the slot, and then pull it out.

Plastic Dome Model

Insert a SD card into the SD card slot with the 'micro SD' print facing upward.



- ✓ Push the SD card until it disengages from the slot, and then pull it out.

Installation



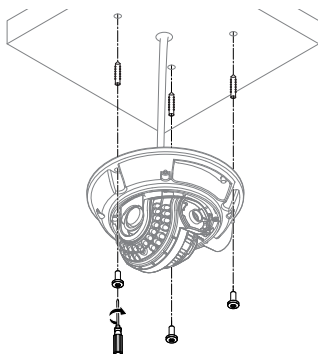
Check the wall or ceiling to see if it needs to be reinforced. The camera may fall off if the wall or ceiling is not strong enough to support its weight. Install the camera in a shaded area. If the camera is installed in direct sunlight, it may affect adversely.



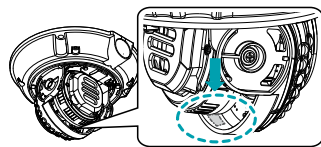
Use the provided guide pattern to check the distance between the screws.

Vandal Dome Model

- 1 Use the screws, anchor provided with the camera to secure the bottom cover on a wall or a ceiling.



Attach the enclosed desiccant in the body to prevent moisture.



- 2 Connect external devices, the network cable, and the power adapter.

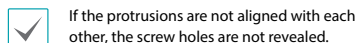
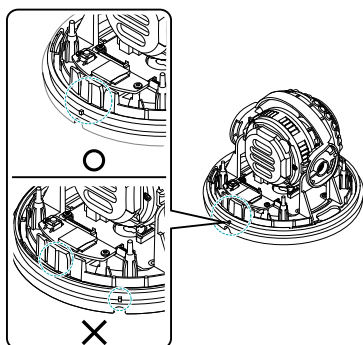


Make sure to shut the side cable hole using the PT 1/2- inch cable cap for waterproof if the hole is not used.

- 3 Adjust the angle of the lens. For more information, refer to the **Angle Adjustment**.

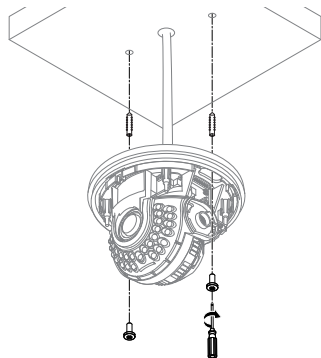
Plastic Dome Model

- 1 Turn the camera body to align the protrusion on its back with the base's reference point.



If the protrusions are not aligned with each other, the screw holes are not revealed.

- 2 Attach the camera body to the wall or ceiling using the installation anchors and screws provided with the camera.

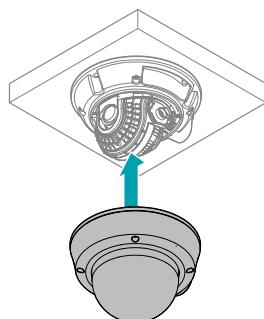


- 3 Connect external devices, the network cable, and the power adapter.
- 4 Adjust the angle of the lens. For more information, refer to the **Angle Adjustment**.

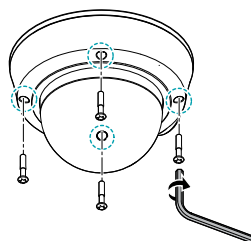
Closing the Dome Cover

Vandal Dome Model

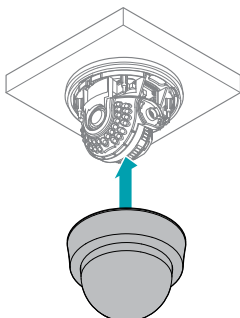
- 1 Attach the dome cover to the bottom cover.



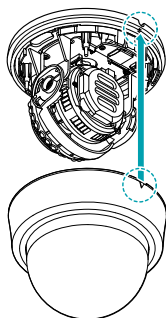
- 2 Fasten the screws for the dome cover clockwise using the allen wrench provided with the camera.



- 1 Attach the dome cover to the bottom cover.

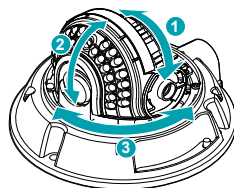


- 2 Press the area where the triangular mark meets the side hole cable to assemble the dome cover.

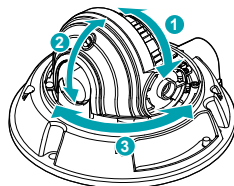


Angle Adjustment

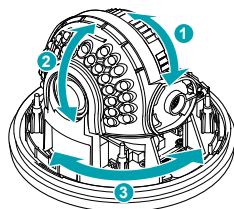
Vandal Dome IR LED Supported Model



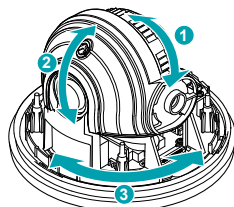
Vandal Dome IR LED Non-Supported Model



Plastic Dome IR LED Supported Model



Plastic Dome IR LED Non-Supported Model



1	Lens Rotation
2	Vertical Rotation
3	Horizontal Rotation

Specifications

Vandal Resistance		Yes (<i>Vandal Dome Model only</i>)
Out-door Ready		IP66 (<i>Vandal Dome Model only</i>), Heater (<i>Heater supported model only</i>)
Operating Temperature		-10°C ~ +50°C (+14°F ~ +122°F) -40°C ~ +50°C (-40°F ~ +122°F) [<i>Heater supported model only</i>]
Boot Up Temperature		0°C ~ +50°C (+32°F ~ +122°F) -20°C ~ +50°C (-4°F ~ +122°F) [<i>Heater supported model only</i>]
Operating Humidity		0% ~ 90%
Power Source		12VDC, PoE(IEEE 802.3af, Class 3)
Power Consumption	IR LED Non-Supported Model	Max. 3.5 W
	IR LED Supported Model	Max. 4.8 W
	Heater Supported Model	14.4W (With heater on DC 12V input)
Approval		FCC, CE
External Dimensions (Ø x H)	Vandal dome model	150.5mm x 98.8mm (5.93" x 3.89")
	Plastic dome model	130mm x 101.8mm (5.12" x 4.01")
Packaging Dimensions (W x H x D)	Vandal dome model	211mm x 186mm x 135mm (8.31" x 7.33" x 5.31")
	Plastic dome model	195mm x 150mm x 130mm (7.68" x 5.91" x 5.12")
Weight (Main Unit)	Vandal dome model	0.98 kg (2.17 lb)
	Plastic dome model	0.43 kg (0.95 lb)
Weight (Packaging)	Vandal dome model	1.25 kg (2.76 lb)
	Plastic dome model	0.75 kg (1.65 lb)

COSTAR

COSTAR VIDEO SYSTEMS

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