IDIS®

TC-D
Series

TC-D5511RX

Before reading this manual

This is a basic installation manual for use of an IDIS camera. Users who are using this product for the first time, as well as users with experience using comparable products, must read this operation manual carefully before use and heed to the warnings and precautions contained herein while using the product. Safety warnings and precautions contained in this operation manual are intended to promote proper use of the product and thereby prevent accidents and property damage and must be followed at all times. Once you have read this operation manual, keep it at an easily accessible location for future reference.

- The manufacturer will not be held responsible for any product damage resulting from the use of unauthorized parts and accessories or from the user's failure to comply with the instructions contained in this manual.
- 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.
- It is recommended that first-time users of this camera and individuals who are not familiar with its use seek technical assistance from their retailer regarding product installation and use.
- If you need to disassemble the product for functionality expansion or repair purposes, you must contact your retailer and seek professional assistance.
- Both retailers and users should be aware that this product has been certified as being electromagnetically compatible for commercial use. If you have sold or purchased this product unintentionally, please replace with a consumer version.

Safety Symbols

Symbol	Publication	Description
---	IEC60417, No.5031	Direct current

In-Text

Symbol	Type	Description
⚠	**Caution**	Important information concerning a specific function.
✓	**Note**	Useful information concerning a specific function.

Safety Precautions

<div>

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.

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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 an 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:

A. When the power-supply cord or the plug has been damaged.

B. If liquid is spilled, or objects have hit the equipment.

C. If the equipment has been exposed to rain or water.

D. 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.

E. If the equipment has been dropped, or the cabinet damaged.

F. 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. 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.

Before reading this manual

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.

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.

Copyright

Registered Trademarks

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Other company and product names are registered trademarks of their respective owners.

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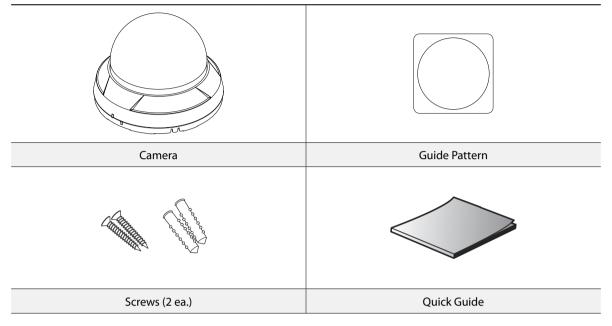
Part 1 – Introduction

Product Features

TC–D5511RX is an analog camera that transmits video over coaxial.

- DC 12V support
- Smart IR support
- TVI/AHD/SD video output support
- Defog function support
- Wide dynamic range compensation (True WDR) for improved video quality in high-contrast situations
- Sense-Up support for improved low-lighting video capture performance
- Day & Night feature (built-in IR cut filter changer)
- Multiple event detection modes: Motion Detection
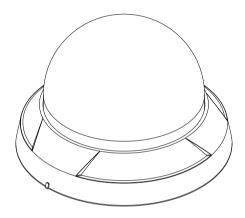- Features a fixed focus lens(mega pixel lens)

Accessories

Upon purchasing the product, check inside the box to make sure all the following accessories are included. External appearances and colors of the accessories may vary depending on the model.
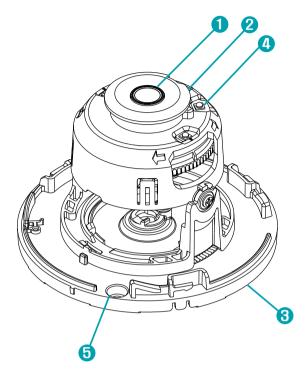
Camera	Guide Pattern
Screws (2 ea.)	Quick Guide

Overview

✓ Product color and design may vary depending on the model.

Dome Cover

Body

❶	Lens
❷	Rubber Bushing
❸	Bottom Cover
❹	IR LED
❺	Wall/Ceiling Installation Hole

- **Lens**

  Equipped with a fixed-focus lens.

- **Rubber Bushing**

  Blocks LED infrared rays.

- **Bottom Cover**

  Allows you to install the camera on a wall or a ceiling.
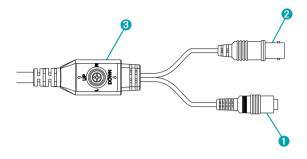
- **IR LED**

  A sensor inside the camera detects the level of illumination and activates the IR LED in low-lighting conditions.

- **Wall/Ceiling Installation Hole**

  Used to screw the camera on a wall or a ceiling.

I/O Device Port

❶	Power In (DC 12V)
❷	BNC Video Out (Yellow Cable)
❸	OSD Button

- **Power In (DC 12V)**

  Connect it to the power adapter (DC 12V).

- **BNC Video Out**

  Connect it to the DVR.

- **OSD Button**

  Use the button to set the OSD menu.

  You can change the video output format by using the OSD button.

  - **CVBS**: Press the **UP** button three times, and then press the center of the OSD button.
  - **TVI**: Press the **LEFT** button three times, and then press the center of the OSD button.
  - **AHD**: Press the **RIGHT** button three times, and then press the center of the OSD button.

  The following table describes the coaxial cable specifications.

  <The coaxial cable specifications>

Item	Content		Note
Connector	BNC		
Cable	3C-2V	5C-2V	
Maximum length	300m	500m	

Installation

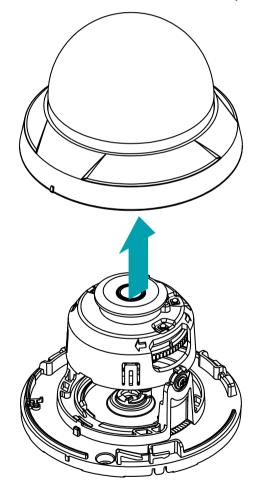Installation of this product does not require the use of special tools.

For more information on other devices comprising the overall system, refer to their respective installation manuals.

Product color and design may vary depending on the model.

Removing the Dome Cover

Turn the dome cover to remove it from the body.

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 be affected adversely.

✓ Use the provided guide pattern to check the distance between the screw holes if necessary.
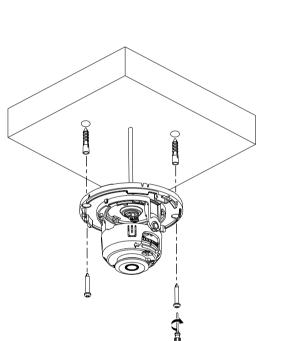
Use the screws and anchors provided with the camera to secure the body on a wall or a ceiling.
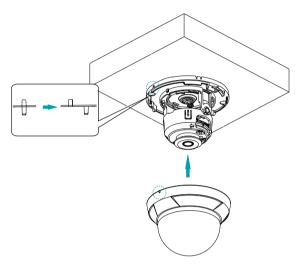
Closing the Dome Cover

✓ Remove the protective film inside of the dome cover.

Attach the dome cover to the bottom cover. Turn the dome cover clockwise to fasten.
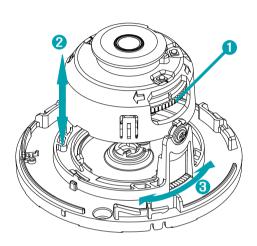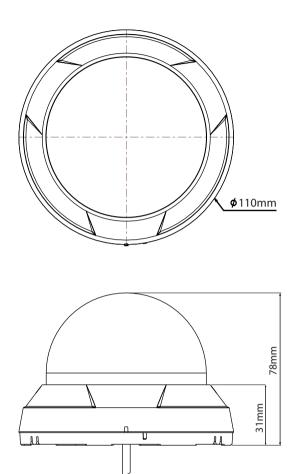
Angle Adjustment

The lens can be rotated along three axes.

❶	Lens Rotation
❷	Vertical Rotation
❸	Horizontal Rotation

- **Lens Rotation**

  Used to adjust the lens' rotation angle. Turn the rotator in clockwise or counterclockwise direction.

- **Vertical Rotation**

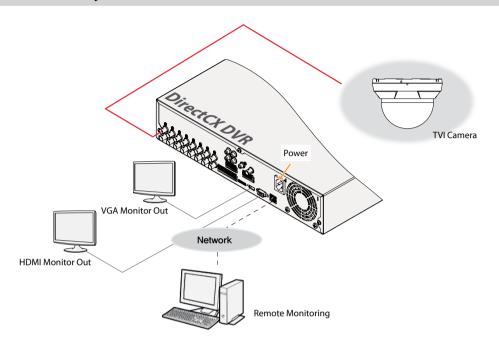 Used to adjust the lens' vertical angle. Turn the rotator in clockwise or counterclockwise direction.

- **Horizontal Rotation**

  Used to adjust the lens' horizontal angle. Turn the horizontal rotator in the clockwise or counterclockwise direction.

Dimension

Part 2 - Camera Connection

DirectCX DVR Layout

TVI Camera

Power

VGA Monitor Out

HDMI Monitor Out

Network

Remote Monitoring

Part 3- Appendix

Troubleshooting

Problem	Check
The main unit won't turn on.	• Check the power cable connection. • Check the power outlet.
I can't see Live videos.	• Check the camera's power status. • Check the connection status of the camera with DVR.
Images are blurry.	• Make sure the lens is clean. If not, clean it using a soft piece of cloth or a brush. • Make sure the lens is in focus. Adjust the focus during daytime. • If there is too much light coming into the camera or the camera is picking up an overly bright light source, adjust the camera's position/angle accordingly.
Video color appears incorrect.	Check the white balance settings. If using the Auto option, it may take some time for the white balance to be adjusted.
Images are blinking.	If the camera is pointed at the sun or a fluorescent lamp, adjust the camera's angle away.

Specifications

✓ These product specifications may change without prior notice.

Camera

Image Sensor	1/2.8" CMOS
Max. Resolution	2592 x 1944
Scanning Mode	Progressive Scan
Lens type	Fixed-focal
Focal Length	f=2.8mm
Aperture	F2.0
Angular Field of View	H: 104.8° / V: 76.9° / D: 130° (f=2.8mm)
Min. Illumination	COLOR : 0.15 lux F2.0 B/W : 0 lux (IR LED ON)
Dynamic Range	True WDR
Electronic Shutter Speed	Auto, Manual (1/30 ~ 1/30,000), Anti-Flicker , Sense-Up (OFF, X2, X4, X8, X16, X32)
Day & Night	IR cut filter with auto switch
IR Distance (LEDs)	20m (4ea)
Pan/Tilt/Lens Range	Pan: ~175 ~ 175˚, Tilt: 0~64˚, Lens: -90 ~ 90˚

Video

Video Output	TVI / AHD / SD
Max. Frame Rate	20fps : 2592 x 1944 12.5fps : 2592 x 1944 30fps : 2560 x 1440 30fps : 1920 x 1080 30fps : 720 X 480
Supported Resolution	2592 x 1944, 2560x1440 ,1920x1080 , 720 X 480

General

Operating Temperature	-10˚C ~ 50˚C (14˚F ~ 122˚F)
Boot Up Temperature	0˚C ~ 50˚C (32˚F ~ 122˚F)
Operating Humidity	0% ~ 90%
Power Source	DC 12V
Power Consumption	Max. 3.4W
Approval	FCC, CE
External Dimensions (Ø x H)	110mm x 78mm (4.33" x 3.07")
Weight (Main Unit)	0.177kg (0.39lb)

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IDIS Co., Ltd.