

DC-S Series

Installation Manual

DC-S1163F / DC-S1263F DC-S1163W / DC-S1263W DC-S1163WH / DC-S1263WH



Before reading this manual

This is a basic installation manual for use of an IDIS netework 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. 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 network 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	Туре	Description
	Warning	An important instruction or set of important instructions that can lead to severe injury or even death if not followed.
\triangle	Caution	An instruction or set of instruction that can lead to personal injury and/or property damage if not followed.

In-Text

Symbol	Туре	Description
A	Caution	Important information concerning a specific function.
\checkmark	Note	Useful information concerning a specific function.

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 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.

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. Correct Batteries

Warning: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

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.

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

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 operation manual.

Table of Contents

1	۱	

Part 1 – Introduction	6
Product Features	6
Accessories	
Overview	8
Indoor and Outdoor	8
Flushed	11
Cable	11
Factory Reset	12
Installation	
Indoor	13
Outdoor	14
Flushed	15
Dimensions	16
Part 2 - Camera Connection	17
With DirectIP™ NVR-based Layout	17
With non DirectIP™ NVR-based Layout	18
Part 3 - Appendix	19
Troubleshooting	19
Specifications	20

Part 1 - Introduction

Product Features

DC-S1163F / DC-S1263F / DC-S1163W / DC-S1263W / DC-S1263W / DC-S1263WH are IP-

based network cameras that compress and transmit video over ethernet.

You can use the IDIS Discovery program to change network camera settings or the IDIS Solution Suite Compact program to manage multiple network cameras. In addition, the embedded web server (IDIS Web) lets you remotely view live video or scan recorded video using a web browser. In addition, you can use the IDIS Solution Suite Compact to manage network cameras and view/record video.



In this operation manual, the term **Remote System** refers to the computer on which the remote program (IDIS Solution Suite Compact or IDIS Web) is running.

- Supports DirectIP mode working with a DirectIP™ NVR that allows users to simply set up all required configurations without a PC
- Supports ONVIF protocol (v2.4.0)
- Multi-streaming for high-resolution and high-quality video monitoring and simultaneous recording in realtime as well as flexible configurations for those
- Supports H.264 video compression and M-JPEG still image compression algorithms
- Supports 4-stage video compression rate and multiple compression resolutions
- Two-way audio communication support for remote audio dialog
- Video stream buffering to counter pre-/post-event buffering and network delays for improved network recording reliability
- Remote monitoring via web browser or remote software
- Automatic web casting code (HTML) generation

- Up to 10 simultaneous remote monitoring connections
- IP filtering, HTTPS, SSL, IEEE 802.1X, and configurable user authority levels for greater security
- Network bandwidth limitation and MAT features for more efficient use of network bandwidth
- Easy network access via UPnP (Universal Plug and Play) function and embedded mDNS (Multicast DNS) protocol
- Wide dynamic range compensation (Digital WDR) for improved video quality in high-contrast situations
- Slow shutter support for improved low-lighting video capture performance
- · Day & Night feature (built-in IR cut filter changer)
- Quick and easy firmware upgrade over the network
- Redundant firmware and auto recovery features for improved system stability
- Network-based integrated management of multiple network cameras
- Multiple event detection modes: Alarm-in, motion detection, trip zone, audio detection, and tampering
- Backup storage on a microSD card as a safeguard against data loss during network interruptions
- Supports 12 VDC, 24 VAC and PoE (Power over Ethernet)
- Video out feature (selectable NTSC/PAL)
- Supports zoom function using an optical zoom lens
- · Pan/Tilt control with a micro stepping motor
- Features a built-in heater for continued use in subzero temperature conditions (DC-S1163WH / DC-S1263WH models only)
- IP66-level for waterproof and dustproof features (Not applicable to DC-S1163F / DC-S1263F models)



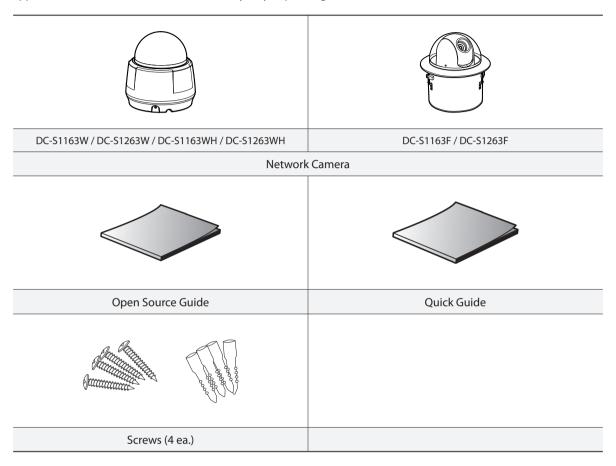
Remote monitoring and recording via multistreaming are available using the IDIS Solution Suite Compact program. For more information on using IDIS Solution Suite Compact, refer to its **operation manual**.



There is a limit to the number of users allowed to connect remotely via the Internet at the same time.

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.





The screws are not provided for *DC-S1163F / DC-S1263F* models.

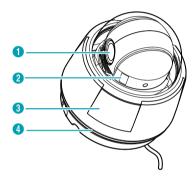
Overview



Product color and design may vary depending on the model.

Indoor and Outdoor

Body



0	Lens
2	SD Card Slot
3	Dome Cover
4	Waterproof Sealing (black rubber)

Lens

Optical zoom lens is mounted.

· SD Card Slot

Used to insert a microSD card into the camera. (An SLC (Single Level Cell) or MLC (Multi Level Cell) card by SanDisk or Transcend is recommended) Remove the dome cover in order to remove or insert the SD memory card. Make sure that the waterproof sealing is joined properly when reconnecting the dome cover; otherwise, the IP66 level is not guaranteed.



- To remove/insert the SD memory card or perform the factory reset, make sure that the waterproof sealing is screwed to the dome cover tightly when reconnecting the dome cover. Otherwise, the IP66 level is not guaranteed. For more information, contact your product retailer.
- Do not remove the SD card while the system is in operation. Removing the card while the system is in operation can cause the system to malfunction and/or corrupt data stored on the SD card.
- An SD card is a consumable product with a finite service life. Prolonged use will damage the card's memory sectors and result in data loss or memory card failure. Test the SD card regularly and replace it whenever necessary.

Dome Cover

Protects the inner parts of camera.

Waterproof Sealing

Resists the ingress of water.

Body - Bottom Side View



6	Cable	
6	Safety Wire Ring	
0	Install Screw	
8	M3 Screw Hole	

· Cable

Refer to the Cable.

· Safety Wire Ring

Secures the body to the bracket or the bracket to the body. Prevents the body or bracket from falling on to the floor when detached from the body and bracket.

(frame ground) is marked beside the safety wire screw hole of the indoor bracket. When fastening the camera body to the indoor bracket, ground the camera by using the grounding clip provided with the camera. It is recommended that you use the camera after grounding it.

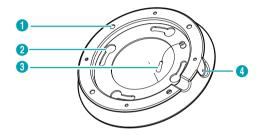
· Install Screw

When installing an indoor camera, it secures the body to the indoor bracket.

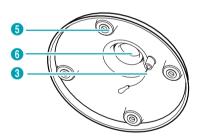
· M3 Screw Hole

When installing an outdoor camera, use the provided M3 screws to secure the sun shield on to the camera body. $\rlapmathebox{...} h$ (frame ground) is marked beside the M3 screw hole of the camera body. When fastening the camera body to the indoor bracket, ground the camera by using the grounding clip provided with the camera. It is recommended that you use the camera after grounding it

Indoor Bracket



Outdoor Bracket





The outdoor bracket is purchased separately. Ask your dealer or distributor about purchasing it.

0	Wall/Ceiling Installation Hole		
2	Install Screw Hole		
3	Safety Wire		
4	M4 Screw Hole		
5	M5 Screw Hole		
6	Pipe Hole		

· Wall/Ceiling Installation Hole

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

· Install Screw Hole

When installing an indoor camera, it secures the body to the indoor bracket.

· Safety Wire

Secures the body to the bracket or the bracket to the body. Prevents the body or bracket from falling on to the floor when detached from the body or bracket.

M4 Screw Hole

When installing an indoor camera, it secures the body to the indoor bracket.

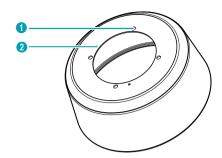
· M5 Screw Hole

When installing an outdoor camera, it secures the sun shield to the outdoor bracket.

· Pipe Hole

When installing an outdoor camera, it secures the pipe, which the cable assembly goes through, to the outdoor bracket.

Outdoor Sun Shield





The outdoor sun shield is purchased separately. Ask your dealer or distributor about purchasing it.

0	M5 Screw Hole
2	M3 Screw Hole

M5 Screw Hole

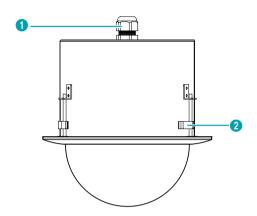
When installing an outdoor camera, it secures the sun shield to the outdoor bracket.

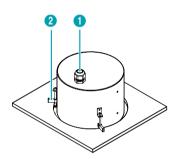
· M3 Screw Hole

When installing an outdoor camera, use the provided sun shield screws to secure the sun shield on to the camera body.

Flushed

Housing





0	Cable Grand	
2	Mounting Clamp	

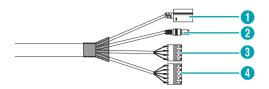
· Cable Grand

For routing cables and wires.

· Mounting Clamp

Secures the camera to the ceiling.

Cable



0	Network Port	
2	Power	
3	Alarm In/Out	
4	Audio In/Out, Video Out	

Network Port

Connect a network cable with an RJ-45 connector to this port. If using a PoE switch, you can supply power to the camera using an ethernet cable. For more information on PoE switch use, refer to the switch manufacturer's operation manual. You can configure, manage, and upgrade this camera and monitor its images from a remote computer over the network. For more information on network connection setup, refer to the **IDIS Discovery operation manual**.

Power

Connect the power adapter.

· Alarm In/Out

 ALI:Connect an alarm-in device to this port. (Mechanism: Choose between an NC (Normally Closed) type or an NO (Normally Open) type) → Connect a mechanical or electrical switch to the alarm in port and the GND (ground) connector. Alarm in range is 0V to 5V. In order to detect alarm input from an electrical switch, the signal must be higher than 4.3V from an NC switch or less than 0.3V from an NO switch and must last for longer than 0.5 seconds. NO: Connect an alarm out device's mechanical or electrical switch to the alarm out port and the COM (Common) connector. (Supported Types: NO (Normally Open), Electrical specifications: 0.3A sync at 125 VAC, 1A sync at 30 VDC)

· Audio In/Out, Video Out

- L I: Connect an audio source to this port. (line in)
- L_O: Connect an amplifier to this port (line out).
 This device does not feature a built-in audio amplifier unit and therefore requires the user to purchase a separate speaker system with a built-in amplifier.
- V_O, GND: Connect the cable's signal line and ground line to these ports and the connector on its opposite end to a monitor. Use these ports for previewing video and not monitoring video.
 Go to Remote Setup (Video Camera menu > Miscellaneous tab) and choose a video out signal. (NTSC or PAL)



- Check your local laws and regulations on making video or audio recordings. The user will be held liable for any violation of the law. (Article 25-5 of the Personal Information Protection Act: Operators of image data processing devices may not operate such devices for purposes other than as originally intended during device installation, place such devices at locations other than as originally intended, or use such devices to record audio.)
- When switching over from 12 VDC to PoE as the power source, the system will be rebooted once the power adapter is disconnected.
- Organize the power cable so that it will not cause people to trip over or become damaged from chairs, cabinets, desks, and other objects in the vicinity. Do not run the power cable underneath carpet or a rug or plug the cable into a power outlet shared by a number of other devices.
- The network connector is not designed to be connected directly with cable or wire intended for outdoor use.

Factory Reset

Only use the factory reset switch to restore the camera to its factory default settings.



The factory reset switch is inside of the camera. Ask your dealer or distributor for details.



A factory reset will clear all camera settings configured by the user.

- 1 Shut off the power supply, separate the dome cover. Insert a straight pin into the switch hole, and press down on the reset switch.
- 2 Hold the switch down and reconnect the power adapter.
- 3 After connecting the power adapter, wait 5 seconds and then take out hands from the switch.
- 4 The device will go through the resetting process and reboot. All camera settings will be restored to their factory defaults after the reboot.
- **5** Reconnect the dome cover.

It's also possible to do a factory reset by pressing and releasing the reset switch while the camera is turned on or using the IDIS Discovery program from a remote location. A factory reset will reboot the system. For more information on factory reset, refer to the **IDIS Discovery operation manual**.



Make sure that the waterproof sealing is joined properly when reconnecting the dome cover; otherwise, the IP66 level is not guaranteed.

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 <u>installation</u> manuals.

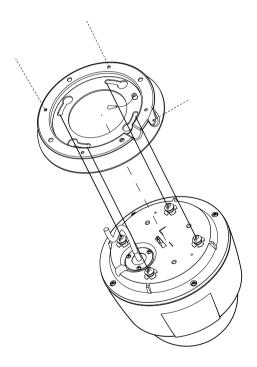


Product color and design may vary depending on the model.



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.

Indoor

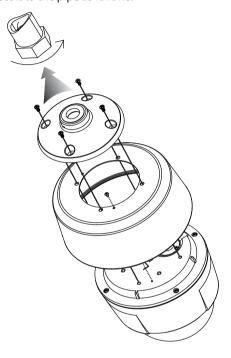


- Screw the indoor bracket to the wall or ceiling by using the wall/ceiling mounting screws provided with the camera.
- Make a cable hole in the wall or ceiling.
- 3 Hook the safety wire of the bracket on the safety wire ring of the camera body.
- 4 Connect external devices, the network cable, and the power adapter.
- 5 Connect the camera body to the indoor bracket. Fix the install screws of the camera body up to the install screw holes of the bracket, and then turn the camera body by 25° in the clockwise direction.
- Fasten the camera body to the bracket by tightening the M4 screw provided with the camera to the to the M4 screw hole of the bracket.
- **7** Supply the power.

Outdoor

In case that a universal nut is attached to a pipe

Connect the sun shield and outdoor bracket first, then connect it to the pipe as follows:

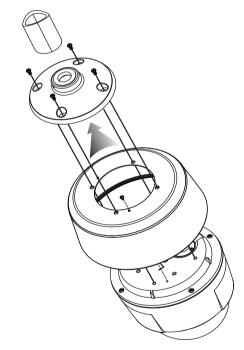


- Remove the install screw from the camera body.
- 2 Screw the sun shield to the camera body by using the M3 screws provided with the camera.
- 3 Hook the safety wire of the outdoor bracket on the safety wire ring of the camera body.

- 4 Use the provided M5 screws to secure the outdoor bracket on to the sun shield.
- **5** Connect the cable from the camera to the pipe.
- Turn the universal nut to connect the camera to the pipe.
- Connect external devices, the network cable, and the power adapter.
- 8 Supply the power.

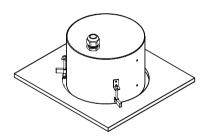
In case that a universal nut is not attached to a pipe

Connect the sun shield to the outdoor bracket as follows:



- 1 Remove the install screw from the camera body.
- 2 Screw the sun shield to the camera body by using the M3 screws provided with the camera.
- 3 Assemble the outdoor bracket to the pipe by turning the outdoor bracket.
- 4 Hook the safety wire of the outdoor bracket on the safety wire ring of the camera body.
- 5 Connect the cable from the camera to the pipe.
- 6 Use the provided M5 screws to screw the sun shield to the outdoor bracket.
- Connect external devices, the network cable, and the power adapter.
- 8 Supply the power.

Flushed



The camera is mounted in the housing.

- 1 Remove the ceiling tile from the ceiling. Draw circle whose diameter is 7.87" (200 mm on the tile. Cut the circle out of the ceiling tile.
- 2 Connect external devices, the network cable, and the power adapter.



The ceiling tile cannot be thicker than 1.3" (35mm).

- 3 Turn the housing dome cover counterclockwise to remove the housing dome cover from the housing can.
- Insert the housing into the ceiling and turn the screws of three clamps clockwise. The clamps are laid over the ceiling tile and the housing is held in the ceiling.
- 5 Connect the housing dome cover to the housing can and turn it clockwise to secure the dome cover to the housing.
- **6** Supply the power.

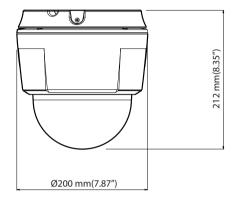


The ceiling tile cannot be thicker than 1.3" (35mm).

Dimensions

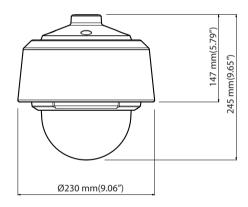
Indoor

DC-S1163W / DC-S1263W models



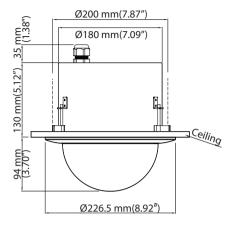
Outdoor

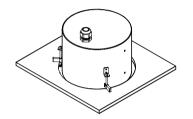
DC-S1163WH / DC-S1263WH models



Flushed

DC-S1163F / DC-S1263F models

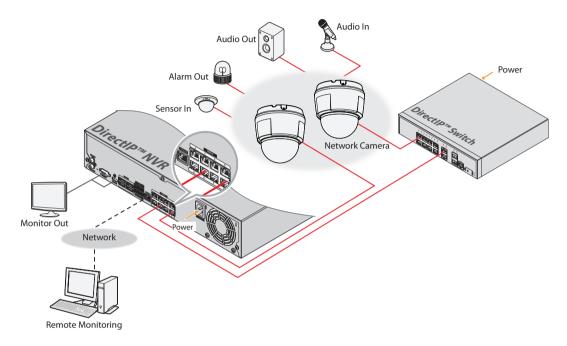




Part 2 - Camera Connection

Use the camera by connecting to DirectIP™ NVR or non DirectIP™ NVR, VMS such as IDIS Solution Suite Compact.

With DirectIP™ NVR-based Layout



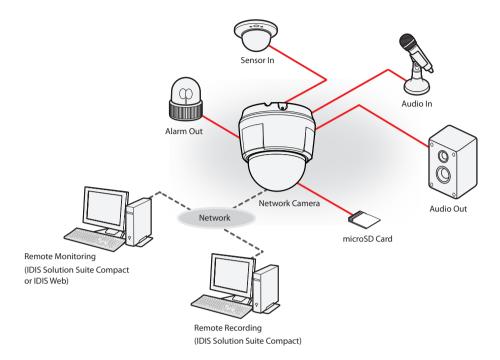
DirectIP™ NVR makes it easy to use cameras without extra network configurations.

Each camera can be controlled via the DirectIP™ NVR setup menu, without any PC.

For detailed camera settings, please see the camera setting pages of DirectIP™ NVR manual.

For users using the camera with DirectIP™ NVR connection, do not need to consider contents in the camera operation manual.

With non DirectIP™ NVR-based Layout



Control the camera over the network from software installed on a computer. Ideal for using the camera over the network from a remote location.

The contents in the camera operation manual are only for users using the camera with non DirectIP™ NVR connection or VMS connection such as IDIS Solution Suite Compact.

Part 3 - Appendix

Troubleshooting

Problem	Check
The main unit won't turn on.	Check the power cable connection. Check the power outlet.
PoE switch isn't being recognized.	Check the grounding status of the I/O device connected to the camera and the PoE switch. If they are not grounded, ground them and try again.
I can't see Live videos.	 Check the camera's power status. Check the network connection status of the computer and the network camera.
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.
Lost the admin ID and password and unable to connect to a network camera.	You must perform a factory reset. A factory reset will revert all settings, including network settings, to their factory defaults. After performing a factory reset, make a memo of the admin ID and password as a safety precaution.
Unable to launch IDIS Web.	If the IDIS Web login screen is not loading, check which version of Microsoft Internet Explorer you are using. IDIS Web may not launch properly on versions 8.0 or below.

Specifications



These product specifications may change without prior notice.

Lens

Lens Type	Varifocal optical zoom
Focal Length	F1.6 to F2.8, f=4.7 mm to 84.6 mm
Viewing Angle	64.9° (Wide) to 4.7° (Tele) – Diagonal
Lens Iris Control	DC auto-iris
Day & Night Filter	Supported

Camera

Image Sensor	1/2.8" CMOS
Minimum Subject Lux	0.5 Lux @ F 1.6 (30 IRE)
Scanning Method	Progressive scan
Signal-to-Noise Ratio	> 45 dB
Dynamic Range (Digital WDR)	> 90 dB
Electronic Shutter	Auto
Pan/Tilt/Zoom	Number of Presets/Scans/Patterns/Tours: 256 / 8 / 8 / 8 Pan: 360° (endless), 0.02° to 180°/sec (Preset 420°/s) Tilt: -10° to 190°, 0.02° to 180°/s (Preset 420°/s) Zoom: 18x optical zoom
External Storage* (Optional)	Micro SD (SDHC) memory card (class 6 or higher, max. 32GB)

^{*} An SLC (Single Level Cell) or MLC (Multi Level Cell) card by SanDisk or Transcend is recommended to ensure stable recording performance.

^{*} An SD card is a consumable product with a finite service life. Prolonged use will damage the card's memory sectors and result in data loss or memory card failure. Test the SD card regularly and replace it whenever necessary.

Video

Signal Format	NTSC or PAL (selectable)
Compression Algorithm	H.264, M-JPEG (supports 4-stage image compression rate)
Compression Resolution	DC-S1163F / DC-S1163W / DC-S1163WH models: 352x240, 704x480, 1280x720
	DC-S1263F / DC-S1263W / DC-S1263WH models: 352x240, 704x480, 1280x720, 1920x1080
Bitrate Control	DC-S1163F / DC-S1163W / DC-S1163WH models: H.264 –CBR / VBR (up to 8 Mbps)
	DC-S1263F / DC-S1263W / DC-S1263WH models: H.264 –CBR / VBR (up to 12 Mbps)
Max. Transmission Rate (frames per second)	DC-S1163F / DC-S1163W / DC-S1163WH models. 30 ips @ 1280x720 + 30 ips @ 1280x720
	DC-S1263F / DC-S1263W / DC-S1263WH models. 30 ips @ 1920x1080 + 4 ips @ 1920x1080
Multi-Stream	Primary, Secondary, Tertiary, Quaternary

Audio

Compression Algorithm	G.726 (8KHz), G.711 μ – Law (8KHz), ADPCM (16KHz)

I/O

Video Out**	1 Composite, 1 Vp-p
Audio In	1 line in
Audio Out	1 line out
Alarm In	1 TTL, NC/NO programmable, 4.3V (NC) or 0.3V (NO) threshold, 5 VDC
Alarm Out	1 relay out, NO only, 0.3A @ 125 VAC, 1A @ 30 VDC
Network Connection	10/100 Mbps Ethernet

^{**} Use these ports for previewing video and not monitoring video.

Connectors

Video Out***	Terminal block
Audio I/O	Terminal block
Alarm I/O	Terminal block
Ethernet Port	RJ-45
Power	DC Jack (internal/external diameter: 0.098" (2.5mm) / 0.217" (5.5mm))

^{***} Use these ports for previewing video and not monitoring video.

General

External Dimensions (Ø x H)	7.87" x 7.87" (200mm x 200mm)
Packaging Dimensions (W x H x D)	10.83" x 12.6" x 10.83" (275mm x 320mm x 275mm)
Weight (Main Unit)	5.40 lbs. (2.45kg)
Weight (Packaging)	7.94 lbs. (3.6kg)
Working Temperature	<i>DC-S1163F / DC-S1263F / DC-S1163W / DC-S1263W models</i> : 14°F ~ 122°F (-10°C ~ 50°C)
	(Starting Temperature: 32°F ~ 122°F (0°C ~ 50°C))
	DC-S1163WH / DC-S1263WH models:
	-22°F ~ 122°F (-30°C to 50°C)
	(Starting Temperature: 5°F ~ 122°F (-15°C ~ 50°C))
Operating Humidity	0% to 90%
Power Input	<i>DC-S1163F / DC-S1263F / DC-S1163W / DC-S1263W models</i> : 12 VDC, 24 VAC, PoE (Power over Ethernet)
	(IEEE 802.3af, Class 3)
	DC-S1163WH / DC-S1263WH models: 12 VDC, 24 VAC, PoE (Power over Ethernet) (IEEE 802.3at, Class 4)
Power Consumption	Max. 8.5W (<i>DC-S1163WH / DC-S1263WH models</i> - With heater on: Max. 27.5W)
Certifications	FCC, CE, IP66****

^{****} Not applies to *DC-S1163F / DC-S1263F* models.

²² V1.3

