



FC-27W 7" dome housing

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**Installation Instructions**



## Safe Use of Equipment



### WARNING



#### **WARNING**

To reduce the risks of an electric shock, do not expose inside of this unit to rain or moisture.



Installation on a rainy day may also cause fog around the capsule.



#### **Installation**

Installation shall be done by qualified installer only and should conform to all local codes.



#### **Ensuring strength of supporting Dome Housing Unit**

The unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit. Recommend use 3/8" stainless screws x four (4).



#### **Prohibit changes or modifications of equipment**

You are cautioned that any changes or modifications not expressly approved in these instructions could void your authority to operate this equipment.



#### **Basic Operating Environment Condition**

We provide warranty for the products that are installed under normal outdoor -20°C ~ +50°C conditions. We are unable to provide warranty for the products which are installed indoor and exposed to constant high temperature over +50°C and over 90% humidity.

Operating temperature and humidity of camera varies from camera to camera. You are requested to confirm to camera specification with camera manufacturer and housing specification with us in advance. i.e. -20°C or below, you are requested to use additional heater and +50°C or above you are requested to use two blowers and Sunshield.



#### **Fasten wires tightly.**

##### **Attention:**

Keep wires away from the Fan / Heater, and do not disturb Fan/Heater's performance

# Table of contents

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- 1. FC-27W 7” dome housing installation with DC 12V  
Fan+Heater.....P.3
- 2. FC-27W 7” dome housing installation with AC 24V  
Fan+Heater.....P.7
- 3. FC-27W 7” dome housing installation with POE  
Fan+Heater .....P.11
- 4. Installation of FC-9002 Pole Mount Bracket and Dome  
housing.....P.16
- 5. Installation of FC-9005 Ceil Mount Bracket and Dome  
housing .....P.17
- 6. Installation of FC-9006 Ceil Mount Bracket and Dome  
housing .....P.18
- 7. Installation of FC-9007 Corner Adapter with Wall Mount Bracket  
and Dome housing.....P.19
- 8. Installation of FC-9008 Corner Adapter with Wall Mount Bracket  
and Dome housing .....P.20
- 9. Installation of FC-9009N Wall Mount Bracket and Dome  
housing .....P.21
- 10. Installation of FC-9009 Wall Mount Bracket and Dome  
housing .....P.22
- 11 Installation of FC-9011 Ceil Mount Bracket and Dome  
housing .....P.23
- 12 Dimensions .....P.24

# 1 FC-27W 7" dome housing installation with DC 12V Fan+Heater



**WARNING**

**Fasten wires tightly.**

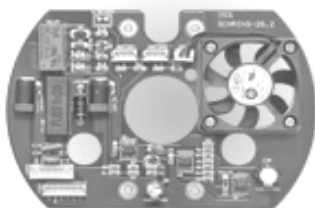
**Attention:**

Keep wires away from the Fan / Heater, and do not disturb Fan/Heater's performance

FC-27W dome housing

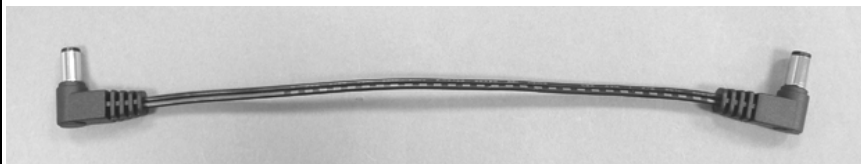


DC12V Fan+Heater



**Cables**

L601



Power cable to PC board and camera (2.0mm DC Plug)

L606



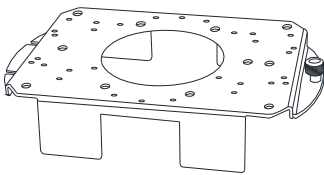
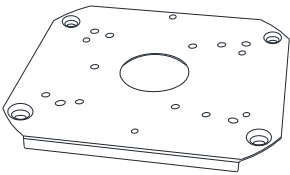
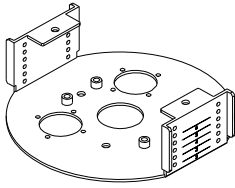
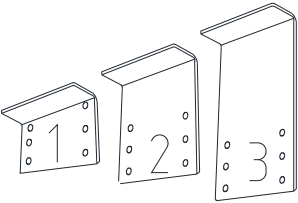

Power cable to PC board, camera and external power supply

L705

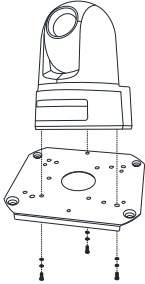
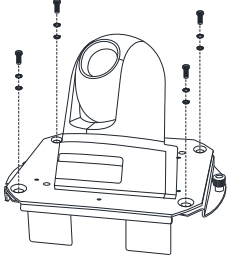
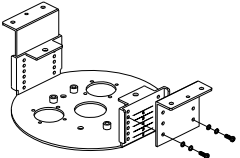
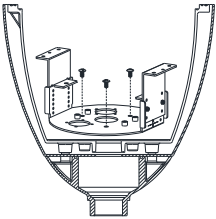
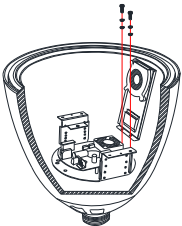
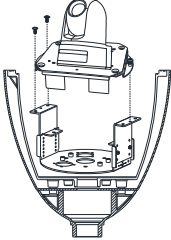


Network extension cable to internet

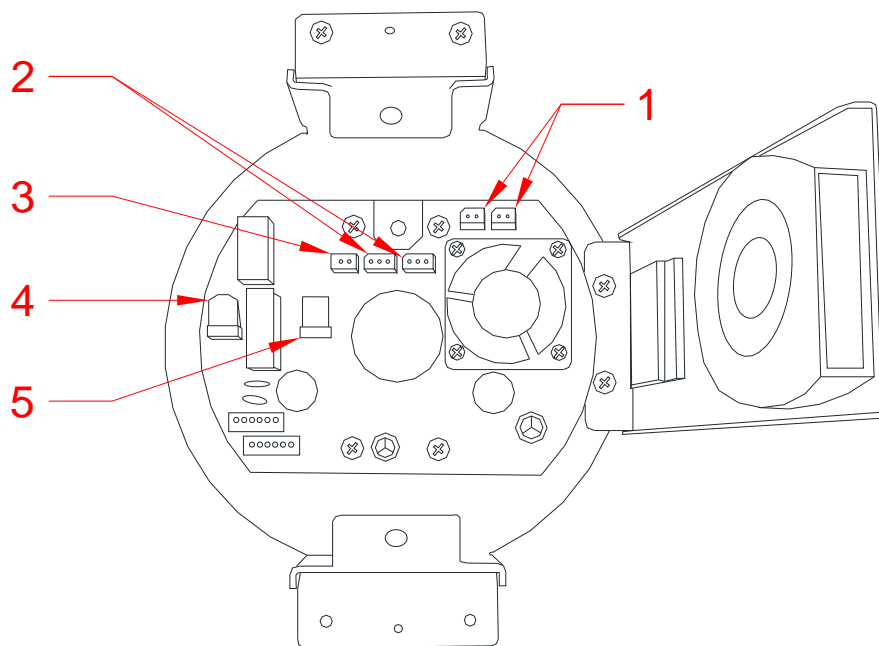
# Component Parts for Assembly

		
<p>R700-U Square-shaped upper board</p>	<p>R700-S Stick to upper board</p>	<p>R700-B Round-shaped bottom board</p>
		
<p>side board</p>	<p>Choose compatible screws to fix camera and Board</p>	

# Installation of camera and mounting holder on housing

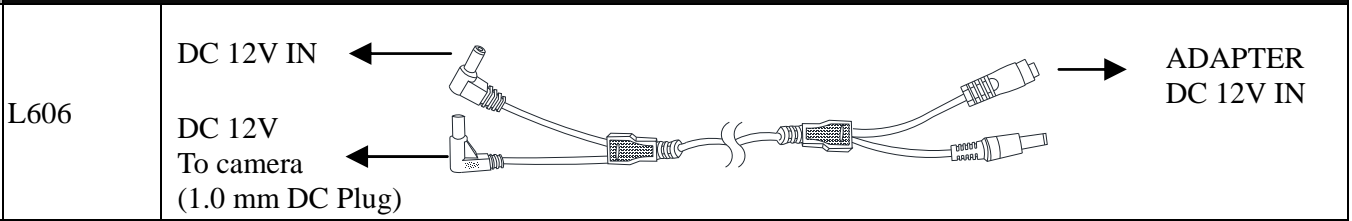
		
<p>Screw camera on R700-S with the washer in the back</p>	<p>fix combination of R700-S and camera on R700-U using 4X10 double washer</p>	<p>Fix applicable side board (No.1, 2, 3 side board) to the R700-B with 3x8 Double Washer screws, as an available camera mounting holder.</p>
		
<p>Fix the camera mounting holder into the dome housing with 5x30crews.</p>	<p>Use 4x8 double washer screws to Fix Fan/Heater side board on mounting holder, and connect power cable to Fan/Heater</p>	<p>Fix combination of R-700U (with camera and R700-S) on mounting holder in housing</p>

## Assembly of the Cables

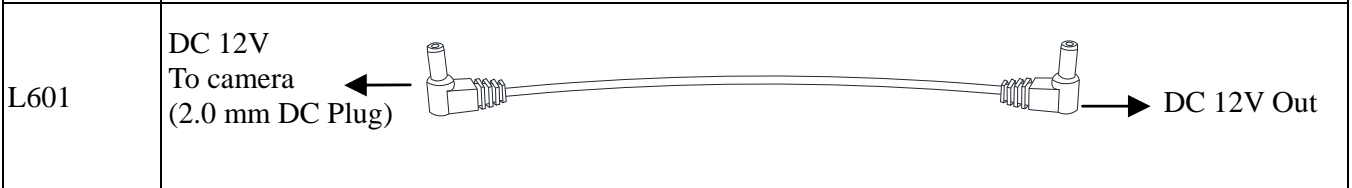
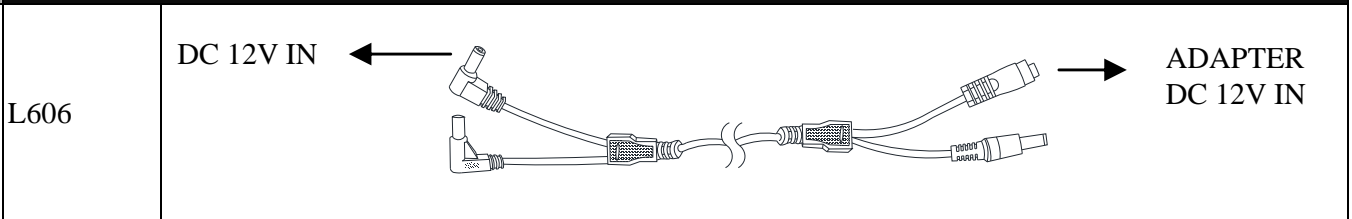


- |    |               |    |            |
|----|---------------|----|------------|
| 1. | DC 12V FAN    | 4. | DC 12V OUT |
| 2. | DC 12V HEATER | 5. | DC 12V IN  |
| 3. | H/SENSER      |    |            |

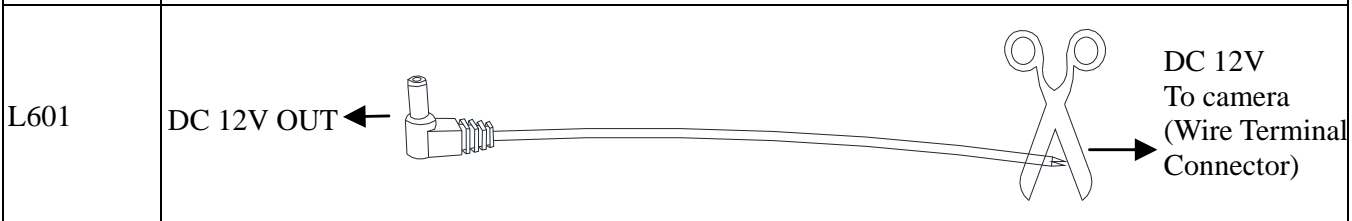
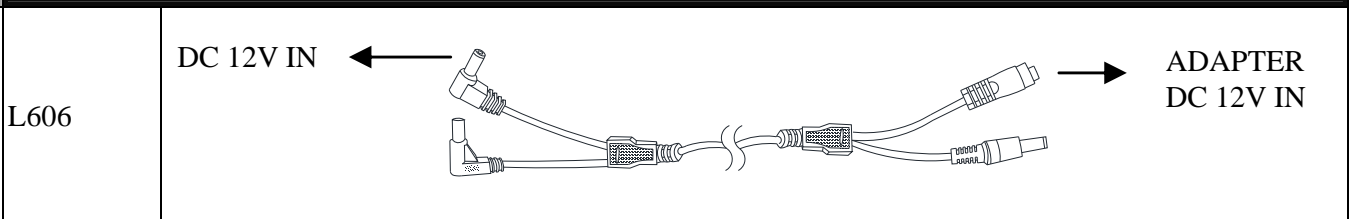
## Assembly of the Cables (DC 12V 1.0 mm Plug To Camera)



## Assembly of the Cables (DC 12V 2.0 mm Plug To Camera)



## Assembly of the Cables (DC 12V Wire Terminal Connector To Camera)



## 2 FC-27W 7" dome housing installation with AC 24V Fan+Heater



**WARNING**

**Fasten wires tightly.**

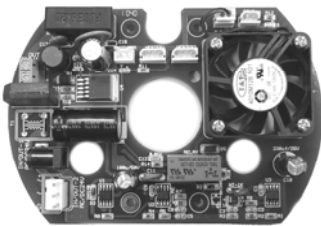
**Attention:**

Keep wires away from the Fan / Heater, and do not disturb Fan/Heater's performance

FC-27W dome housing

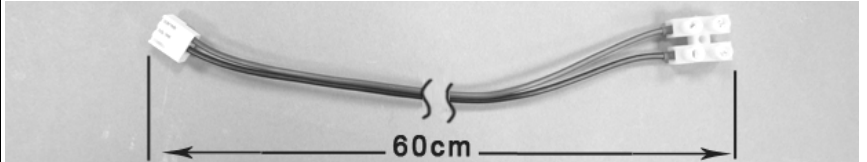


AC24V Fan+Heater



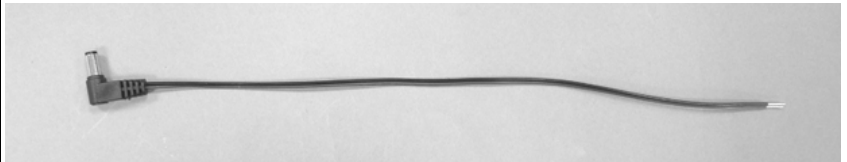
**Cables**

L605P-2



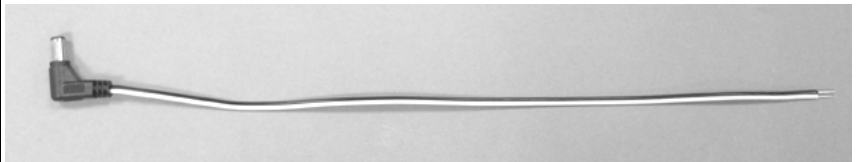
Power cable to PC board

L704P



Power cable to camera (2.0mm DC Plug)

L704P-1



Power cable to camera (1.0mm DC Plug)

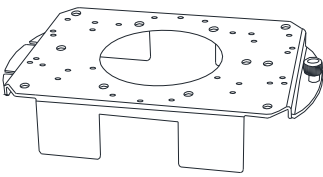
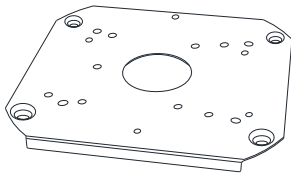
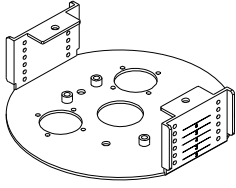
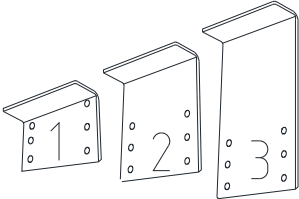

L705



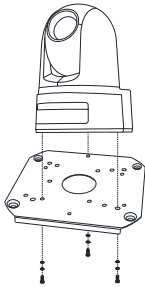
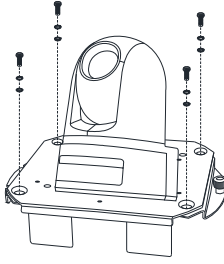
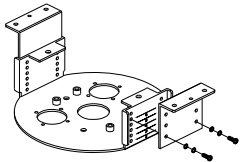
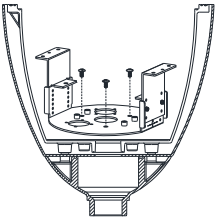
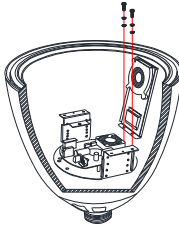
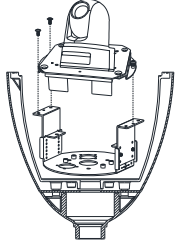
Network extension cable to internet



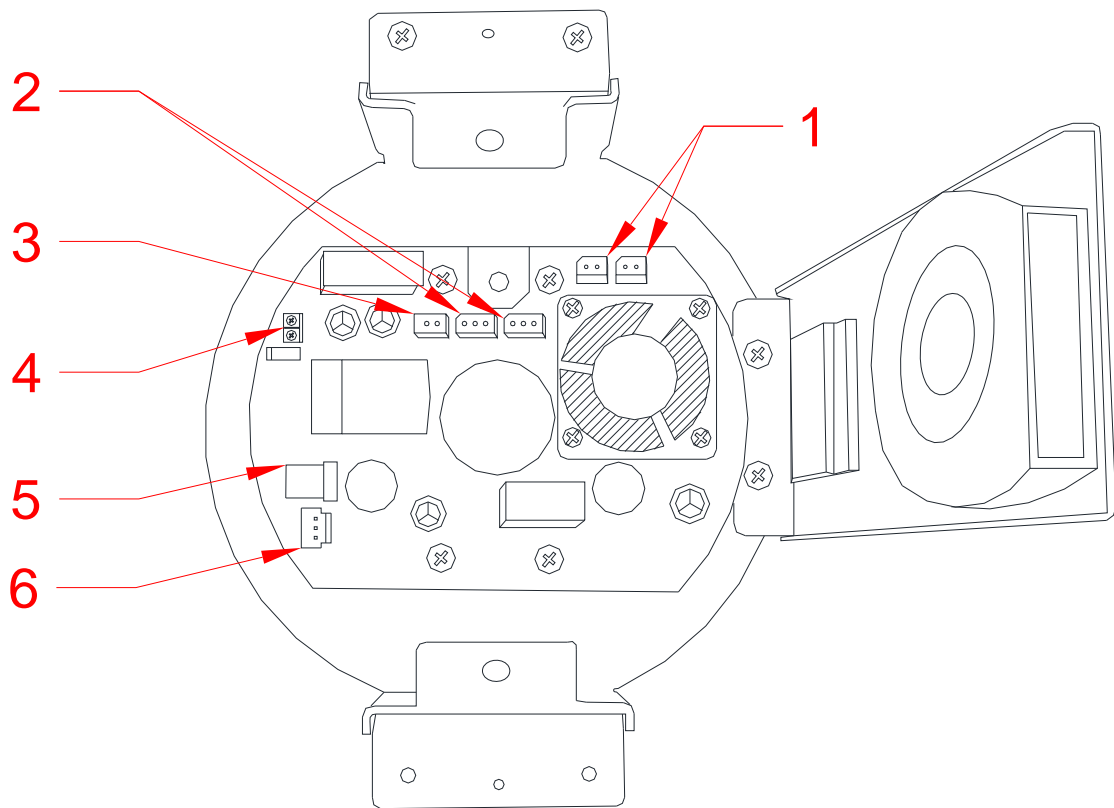
## Component Parts for Assembly

		
<p>R700-U Square-shaped upper board</p>	<p>R700-S Stick to upper board</p>	<p>R700-B Round-shaped bottom board</p>
		
<p>side board</p>	<p>Choose compatible screws to fix camera and Board</p>	

## Installation of camera and mounting holder on housing



		
<p>Screw camera on R700-S with the washer in the back</p>	<p>fix combination of R700-S and camera on R700-U using 4X10 double washer</p>	<p>Fix applicable side board (No.1, 2, 3 side board) to the R700-B with 3x8 Double Washer screws, as an available camera mounting holder.</p>
		
<p>Fix the camera mounting holder into the dome housing with 5x30crews.</p>	<p>Use 4x8 double washer screws to Fix Fan/Heater side board on mounting holder, and connect power cable to Fan/Heater</p>	<p>Fix combination of R-700U (with camera and R700-S) on mounting holder in housing</p>

## Assembly of the Cables





- |                  |               |
|------------------|---------------|
| 1. DC 12V FAN    | 4. DC 12V OUT |
| 2. AC 24V HEATER | 5. AC 24V OUT |
| 3. H/SENSER      | 6. AC 24V IN  |



## Assembly of the Cables (AC 24V Wire Terminal Connector To Camera)

L605P-2	AC 24V IN		ADAPTER AC 24V IN
L704P	AC 24V Out		AC 24V To camera (Wire Terminal Connector)



## Assembly of the Cables (DC 12V Wire Terminal Connector To Camera)

L605P-2	AC 24V IN		ADAPTER AC 24V IN
L704P or L704P-1	DC 12V To camera (Wire Terminal Connector)		DC 12V Out L704P : Red(+),Black(-) L704P-1 : White(+),Black(-)

## Assembly of the Cables (DC 12V 2.0mm Plug To Camera)

L605P-2	AC 24V IN		ADAPTER AC 24V IN
L704P	DC 12V To camera (2.0 mm DC Plug)		DC 12V Out Red(+),Black(-)

## Assembly of the Cables (DC 12V 1.0mm Plug To Camera)

L605P-2	AC 24V IN		ADAPTER AC 24V IN
L704P-1	DC 12V To camera (1.0 mm DC Plug)		DC 12V Out White(+),Black(-)

### 3 FC-27W 7" dome housing installation with POE Fan+Heater



**WARNING**

**Fasten wires tightly.**

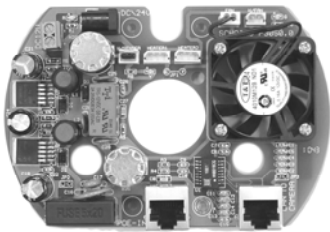
**Attention:**

Keep wires away from the Fan / Heater, and do not disturb Fan/Heater's performance

FC-27W dome housing

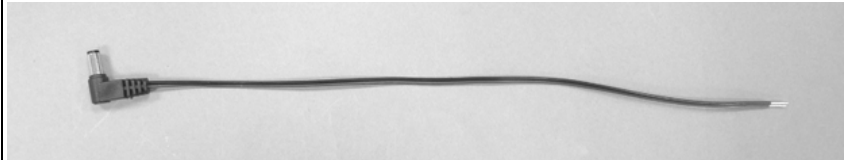


POE Fan+Heater



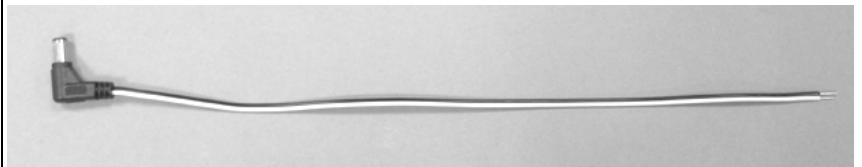
**Cables**

L704P



Power cable to camera (2.0mm DC Plug)

L704P-1



Power cable to camera (1.0mm DC Plug)

L705



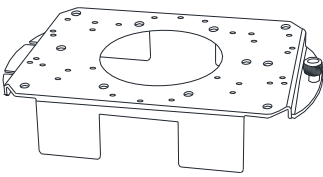
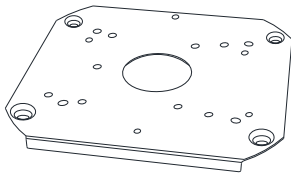
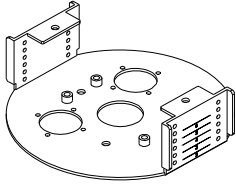
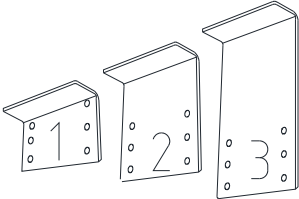

Network extension cable to internet

L705-2

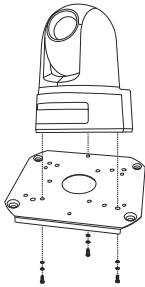
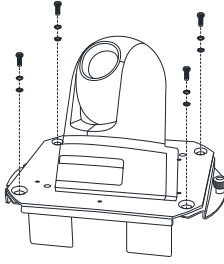
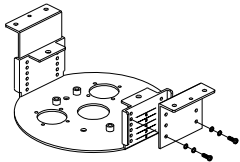
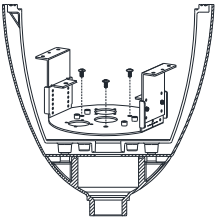
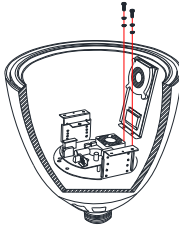
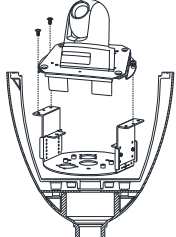


Network extension cable to camera

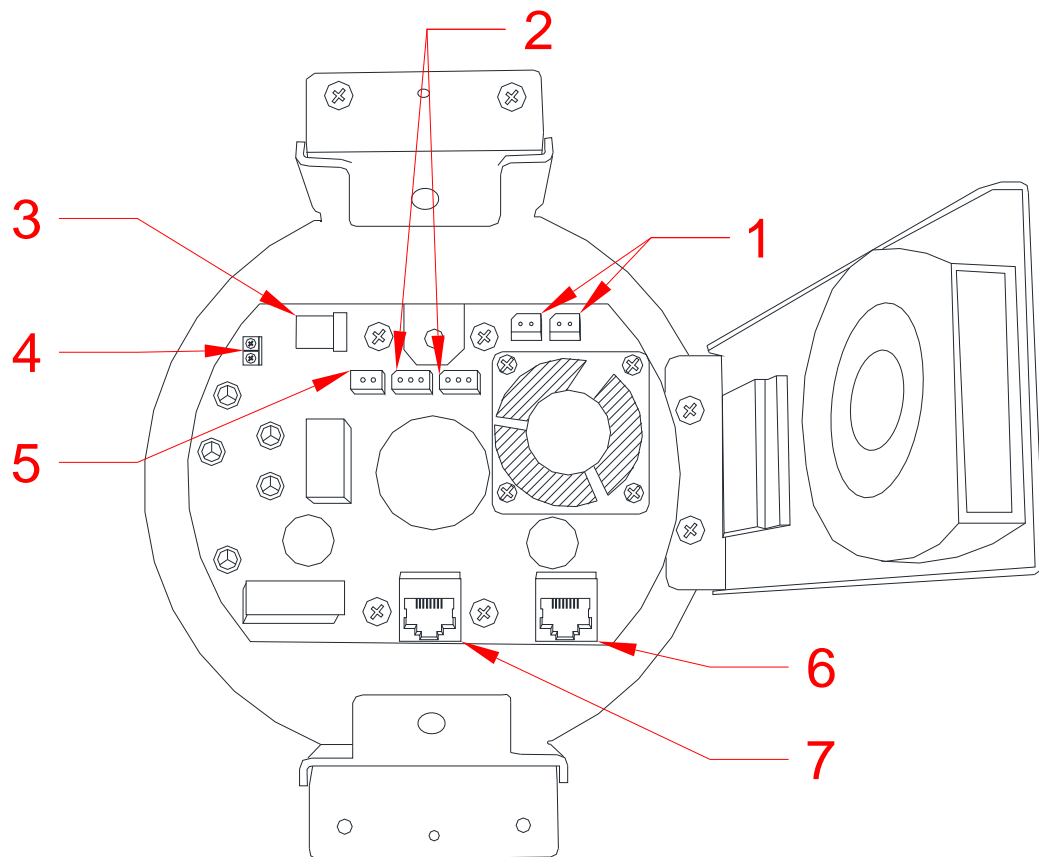
## Component Parts for Assembly

		
<p>R700-U Square-shaped upper board</p>	<p>R700-S Stick to upper board</p>	<p>R700-B Round-shaped bottom board</p>
		
<p>side board</p>	<p>Choose compatible screws to fix camera and Board</p>	

## Installation of camera and mounting holder on housing




		
<p>Screw camera on R700-S with the washer in the back</p>	<p>fix combination of R700-S and camera on R700-U using 4X10 double washer</p>	<p>Fix applicable side board (No.1, 2, 3 side board) to the R700-B with 3x8 Double Washer screws, as an available camera mounting holder.</p>
		
<p>Fix the camera mounting holder into the dome housing with 5x30crews.</p>	<p>Use 4x8 double washer screws to Fix Fan/Heater side board on mounting holder, and connect power cable to Fan/Heater</p>	<p>Fix combination of R-700U (with camera and R700-S) on mounting holder in housing</p>

## Assembly of the Cables






- |                  |                  |
|------------------|------------------|
| 1. DC 12V FAN    | 4. DC 12V OUT    |
| 2. AC 24V HEATER | 5. H/SENSER      |
| 3. DC 24V OUT    | 6. Lan to camera |
|                  | 7. POE IN        |

## Assembly of the Cables (DC 12V Wire Terminal Connector To Camera)

L705	 <p>POE IN ← → POE POWER IN</p>
L704P or L704P-1	 <p>DC 12V To camera (Wire Terminal Connector) ← → DC 12V Out L704P : Red(+),Black(-) L704P-1 : White(+),Black(-)</p>
L705-2	 <p>LAN ← → LAN To camera</p>

## Assembly of the Cables (DC 24V Wire Terminal Connector To Camera)

L705	 <p>POE IN ← → POE POWER IN</p>
L704P	 <p>DC 24V Out Red(+),Black(-) ← → DC 24V To camera (Wire Terminal Connector)</p>
L705-2	 <p>LAN ← → LAN To camera</p>

## Assembly of the Cables (DC 12V 2.0 mm Plug To Camera)

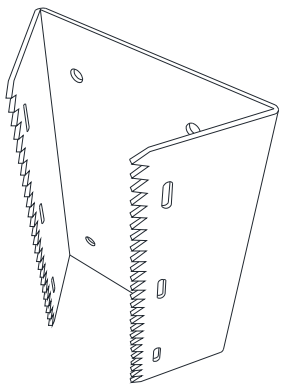
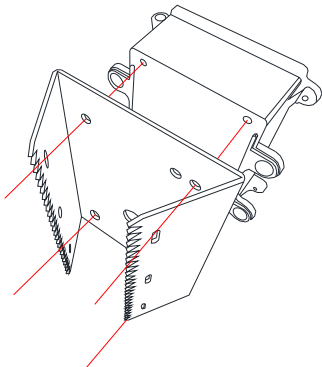
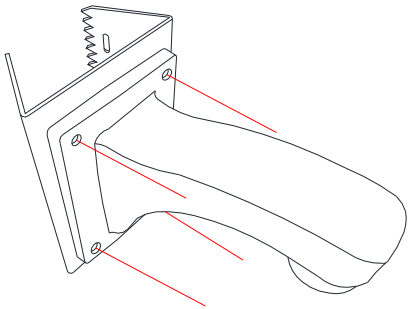
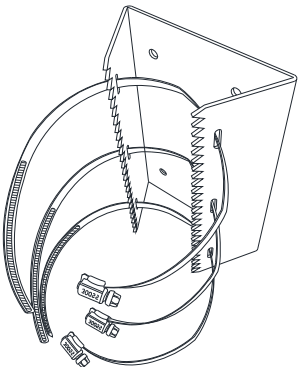
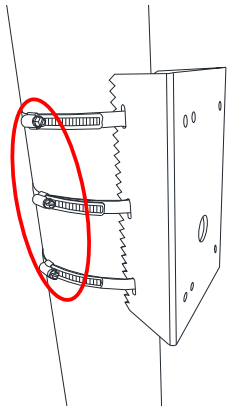
L705	<p>POE IN ← → POE POWER IN</p>
L704P	<p>DC 12V To camera (2.0 mm DC Plug) ← → DC 12V Out Red(+),Black(-)</p>
L705-2	<p>LAN ← → LAN To camera</p>

## Assembly of the Cables (DC 12V 1.0 mm Plug To Camera)

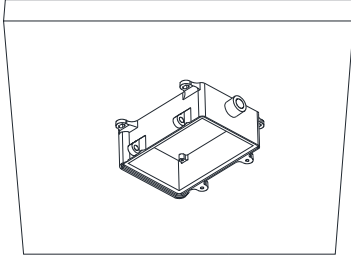
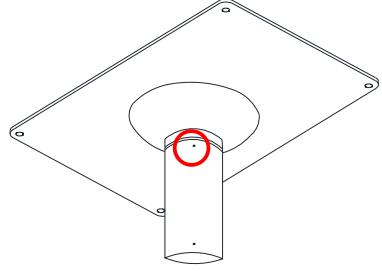
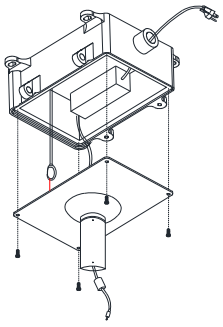
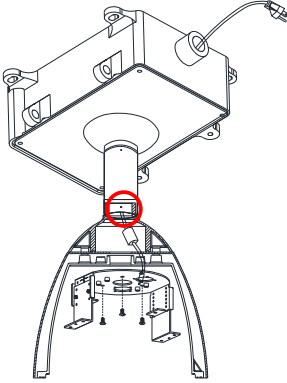
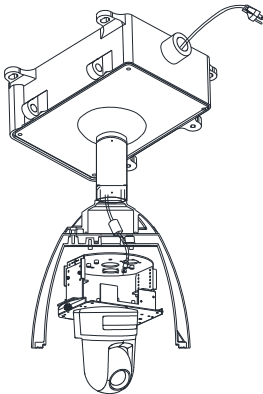
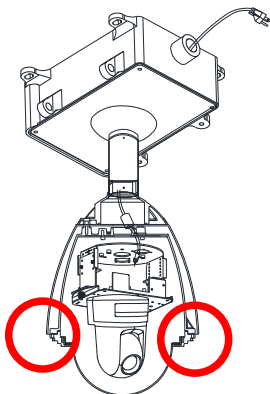
L705	<p>POE IN ← → POE POWER IN</p>
L704P-1	<p>DC 12V To camera (1.0 mm DC Plug) ← → DC 12V Out White(+),Black(-)</p>
L705-2	<p>LAN ← → LAN To camera</p>



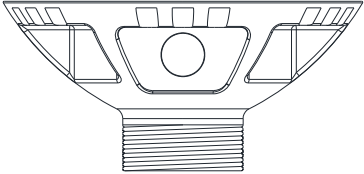
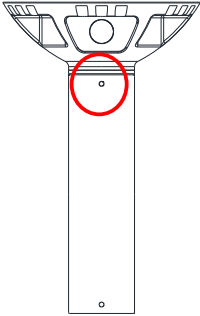
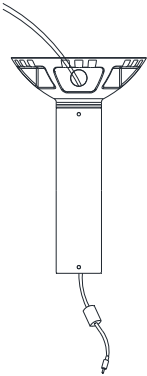
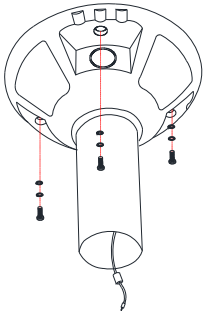
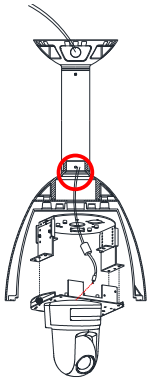
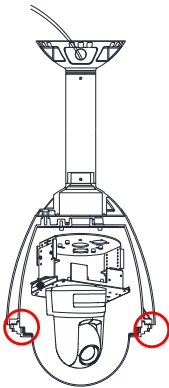
## 4 Installation of FC-9002 Pole Mount Bracket and Dome housing

		
4-1	4-2-1	4-2-2
FC-9002 Pole Mount Bracket	For installation with FC-9009 + FC-9010 (wall mount bracket and power box), screw FC-9010 power box on FC-9002 Pole Mount Bracket	For installation with FC-9009N wall mount bracket, screw FC-9009N on FC-9002 Pole Mount Bracket
		
4-3	4-4	
Thread the hoop through FC-9002	Fasten hoop tightly with flathead screwdriver	

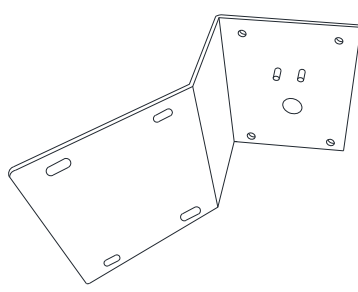
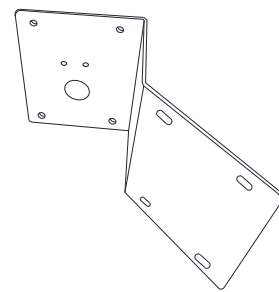
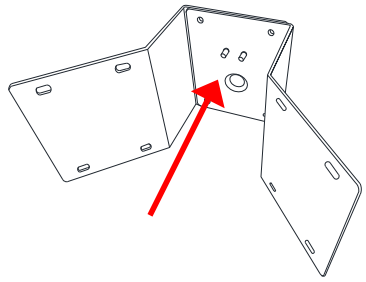
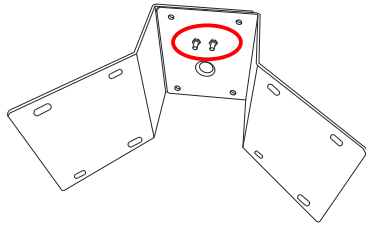
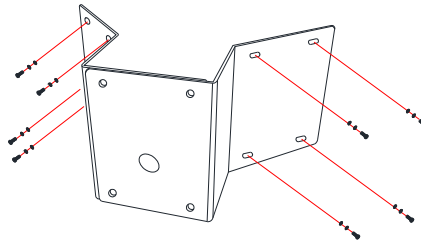
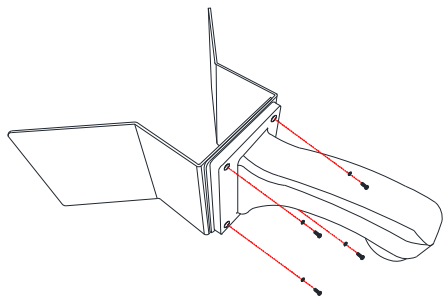
## 5 Installation of FC-9005 Ceil Mount Bracket and Dome housing

		
<p>5-1</p>	<p>5-2</p>	<p>5-3</p>
<p>Fix FC-9010 power box on ceil</p>	<p>Twist and Tighten the Pole to the Top of FC-9005</p>	<p>Insert cables through power box and FC-9005, buckle up the safety rope, and then tighten up screws</p>
		
<p>5-4</p>	<p>5-5</p>	<p>5-6</p>
<p>Fix dome housing with FC-9005 bracket</p>	<p>Fix camera to dome housing and connect the cables</p>	<p>Use Allen Key and 4x16 Hex Head Cap screws to fix cover and dome housing</p>

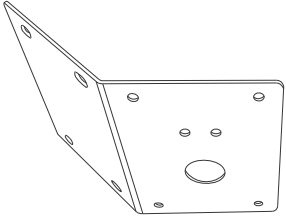
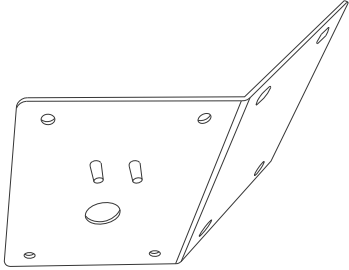
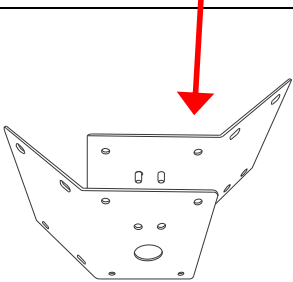
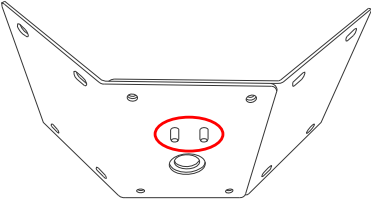
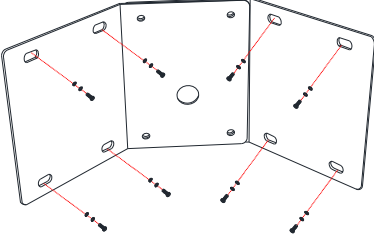
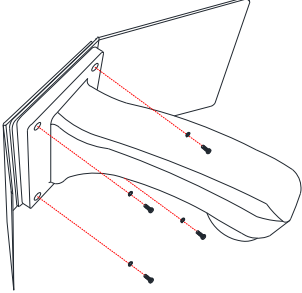
## 6 Installation of FC-9006 Ceil Mount Bracket and Dome housing

		
<p>6-1 Top of FC-9006 Pendant Mount Bracket</p>	<p>6-2 Twist and Tighten the Pole clockwise to the Top of FC-9006 (Two HEX HEAD CAP SCREWS (Two HEX HEAD CAP SCREWS are already installed on Pole), use Allen Key to tighten the screws. .</p>	<p>6-3 Insert cables through FC-9006</p>
		
<p>6-4 Fix FC-9006 bracket on the ceil</p>	<p>6-5 Assemble the dome housing and the bracket, and use Allen Key to fix screws tightly. Fix camera to dome housing and connect the cables</p>	<p>6-6 Use Allen Key and 4x16 Hex Head Cap screws to fix cover and dome housing</p>

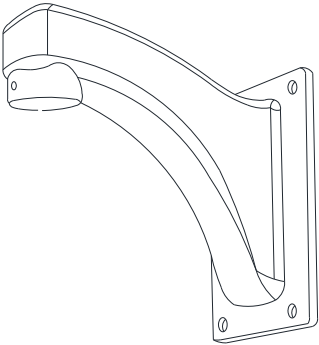
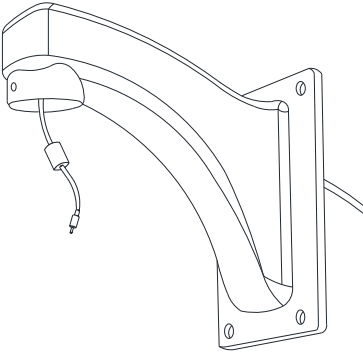
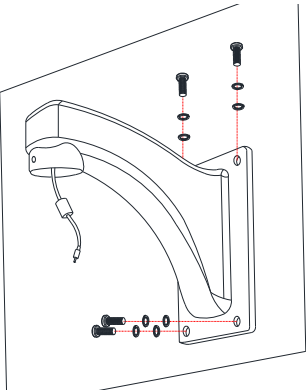
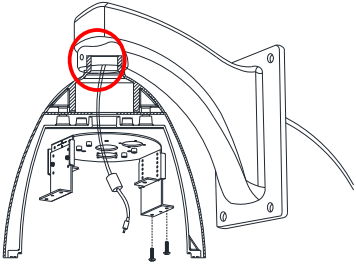
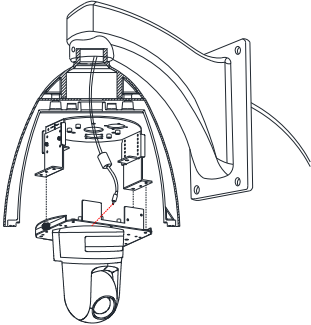
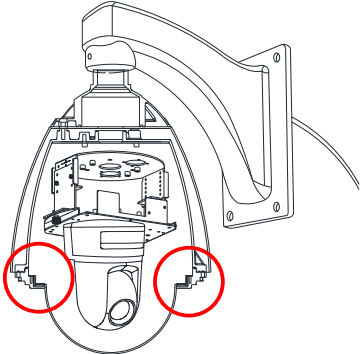
# 7 Installation of FC-9007 Corner Adapter with Wall Mount Bracket and Dome housing

		
<p>7-1 FC-9007 Exterior Angle 90° Corner Adapter Part1</p>	<p>7-2 FC-9007 Exterior Angle 90° Corner Adapter Part2</p>	<p>7-3 Join FC-9007 Part1 and Part2 together</p>
		
<p>7-4 Tighten Hex Head Cap screws clockwise</p>	<p>7-5 Then fix whole FC-9007 Exterior Angle 90° Corner Adapter on the wall</p>	<p>7-6 Fix Wall Mount Bracket on FC-9007 Corner Adapter with washer in the front and the screw nut in the back</p>

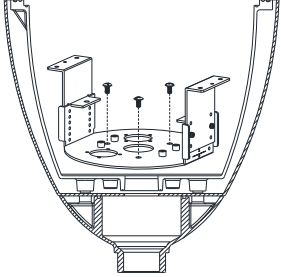
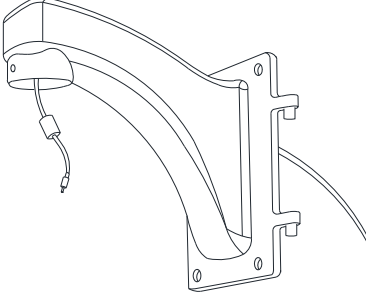
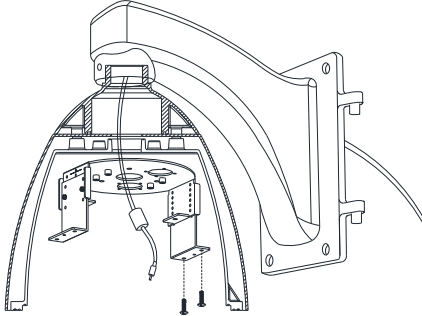
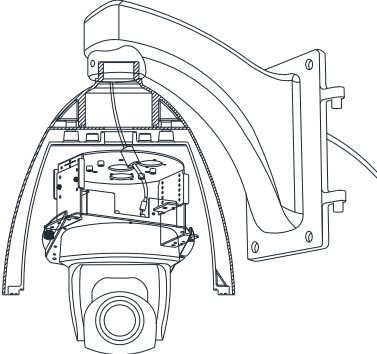
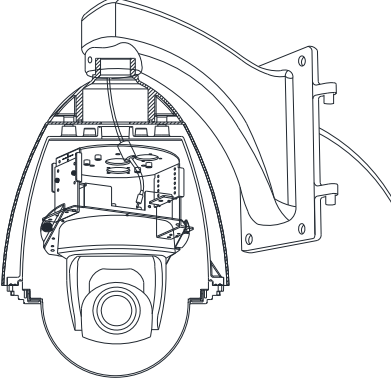
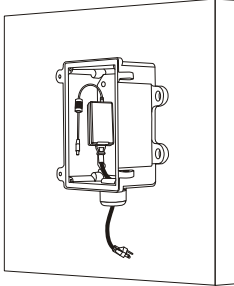
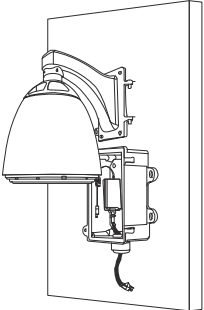
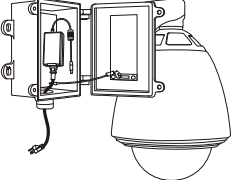
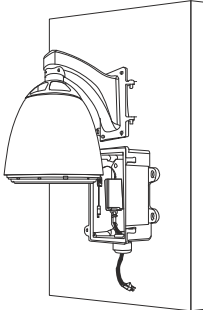
# Installation of FC-9008 Corner Adapter with Wall Mount Bracket and Dome housing

		
8-1	8-2	8-3
FC-9008 Interior Angle 90° Corner Adapter Part1	FC-9008 Interior Angle 90° Corner Adapter Part2	Join FC-9008 Part1 and Part2 together
		
8-4	8-5	8-6
Tighten Hex Head Cap screws clockwise	Then fix whole FC-9008 Interior Angle 90° Corner Adapter on the wall	Fix Wall Mount Bracket on FC-9008 Corner Adapter with washer in the front and the screw nut in the back

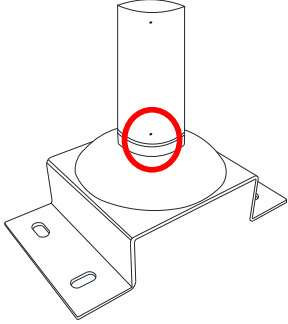
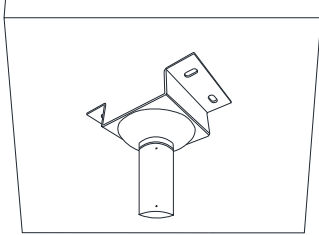
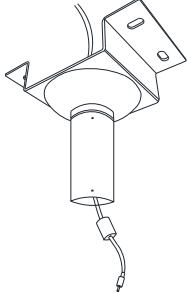
## 9 Installation of FC-9009N Wall Mount Bracket and Dome housing

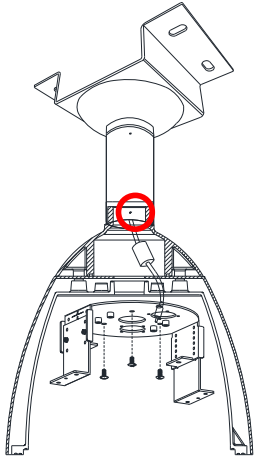
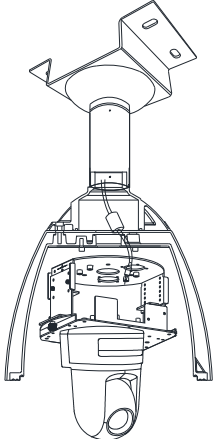
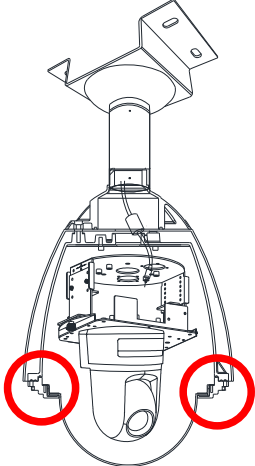
		
<p>9-1</p>	<p>9-2</p>	<p>9-3</p>
<p>FC-909N Wall Mount Bracket</p>	<p>Put cables through bracket</p>	<p>Fix bracket on wall</p>
		
<p>9-4</p>	<p>9-5</p>	<p>9-6</p>
<p>Assemble the dome housing and the bracket, and use Allen Key to fix 4x10 screws tightly.</p>	<p>Fix camera to dome housing and connect the cables</p>	<p>Use Allen Key and 4x16 Hex Head Cap screws to fix cover and dome housing</p>

# 10 Installation of FC-9009 Wall Mount Bracket and Dome housing

		
10-1	10-2	10-3
Fix mounting holder to the Dome housing.	Put cables through the bracket.	Assemble the Dome housing and the bracket.
		
10-4	10-5	10-6
Fix camera to dome housing and connect the cables	Use Allen Key and 4x16 Hex Head Cap screws to fix cover and dome housing	Fix the power box to the wall or to the column.
		
10-7	10-8	10-9
Have the bracket hooked up to the tenon of the power box.	Buckle up the safety rope and then connect cables with the outward cables.	The completed assembly.

# 11 Installation of FC-9011 Ceil Mount Bracket and Dome housing

		
<p>11-1</p>	<p>11-2</p>	<p>11-3</p>
<p>Twist and Tighten the Pole to the Top of FC-9011</p>	<p>Fix FC-9011 on Ceil</p>	<p>Insert cables through FC-9011</p>

		
<p>11-4</p>	<p>11-5</p>	<p>11-6</p>
<p>Fix dome housing with FC-9011 bracket</p>	<p>Fix camera to dome housing and connect the cables</p>	<p>Use Allen Key and 4x16 Hex Head Cap screws to fix cover and dome housing</p>



# 12 Dimensions

<p>12-1</p>	<p>12-2</p>	<p>12-3</p>
<p>FC-27W 7" housing Internal dimensions</p>	<p>FC-9002 Pole Mount Bracket</p>	<p>FC-9005 Pendant Mount Bracket</p>
<p>12-4</p>	<p>12-5</p>	<p>12-6</p>
<p>FC-9009N or FC-9009 Wall Mount Bracket dimensions</p>	<p>FC-9006-30 30cm Pendant Mount Bracket dimensions</p>	<p>FC-9007 Exterior Angle 90° Corner Adapter dimensions</p>
<p>12-7</p>	<p>12-8</p>	<p>12-9</p>
<p>FC-9008 Interior Angle 90° Corner Adapter dimensions</p>	<p>FC-9010 Power Box dimensions</p>	<p>FC-9011 Pendant Mount Bracket</p>

## IMPORTANT SAFEGUARDS

1. **Read Instructions** – All the safety and operating instructions should be read before operating the unit.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the unit and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating user instructions should be followed.
5. **Electrical Connections** – Only a qualified electrician should make the electrical connections.
6. **Attachments** – Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. **Cable Runs** – All cable runs must be within permissible distance.
8. **Mounting** – This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit.  
Accordingly:
  - a. The installation should be made by qualified installer.
  - b. The installation should be in compliance with local codes.
  - c. Care should be exercised to select suitable hardware to install the unit, taking into account both the composition of the mounting surface and the weight of the unit. Be sure to periodically examine the unit and the supporting structure to make sure that the integrity of the installation is intact. Failure to comply with the foregoing could result in the unit separating from the support structure and falling, with resultant damages or injury to anyone or anything struck by the falling unit.

## LIMITED WARRANTY IN TAIWAN



CHAINS TECHNOLOGY CO., LTD. provides warranty that products sold hereunder shall be free from defects in materials or workmanship for a period of ONE (1) YEAR from the date of purchase by the original end-user customer (the “Warranty Period”).

CHAINS TECHNOLOGY CO., LTD. makes no other warranty of any kind with respect to these products, whether expressed or implied, including without limitation, the implied warranty of fitness for a particular purpose. In the event of a breach of the above warranty, CHAINS TECHNOLOGY CO., LTD. will have the option, to repair or replace said products, or refund the purchase price paid thereof.

This is the exclusive solution and CHAINS TECHNOLOGY’s sole obligation with respect to the above warranty. In no event shall CHAINS TECHNOLOGY be liable for any incidental or consequential damages, as defined in section 2-275 of the Uniform Commercial Code for a breach of this warranty.

CHAINS TECHNOLOGY CO., LTD. shall repair or replace defective products upon shipment of products prepaid to CHAINS TECHNOLOGY. Repairs made necessary by reason of accident, misuse or normal wear shall be charged at CHAINS TECHNOLOGY’s standard rate. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

## SAFETY PRECAUTIONS

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK!	
<b>CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE COMPONENTS TO WATER OR MOISTURE.</b>		



The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated “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 presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## UNPACKING

Unpack carefully. Electric components can be damaged if improperly handled or dropped. If any of the products appears to have been damaged during the shipment, replace it properly in its carton and notify the shipper.

Be sure to save:

1. The shipping carton and packaging material. They are the safest material in which to make future shipments of the equipment
2. The Installation and Operating Instructions.

## SERVICE

If the product needs repair service, the customer should contact CHAINS TECHNOLOGY CO, LTD. for authorization to return the products back and for other shipping instructions.

## TECHNICAL SUPPORT

If technical support is needed, please contact:

### Chains Technology Co., Ltd.

4F, No.115, Sec.2, Jhong-Yang South Road,  
Betio District, Taipei City 112, Taiwan ( R.O.C. )

E-Mail: chains.co@msa.hinet.net

URL: www.faxcont.com

TEL: 886-2-2896-5018

FAX: 886-2-2896-5636



