

PRODUCTION RELEASE & REVISION						
REV	DESCRIPT'N/BUYER	DWG No	PARTS No.	BY	CHK	DATE
A	INITIAL		50302223	Y.W.KOH	N.C.PARK	07-20-M7
B	4page 그림수정		50302223	Y.W.KOH	N.C.PARK	09-18-M7
C	내용변경 수정		50302223	A.K.HAN	N.C.PARK	12-12-M7
D	매뉴얼사이즈변경		50302223	A.K.HAN	N.C.PARK	07-22-M8

← 210mm →

↑ 297mm ↓

INSTRUCTION MANUAL

DOME HOUSING

Please read this manual thoroughly before use, and keep it handy for future reference.

**4.1 PARTS LIST**

NO	NAME	STANDARD	QTY
1	Machine Screw	PH1M X L5 (SUS)	5
2	SunShield	NL	1
3	Ass'y Safety Wire B	NL	1
4	Ring	20X30-16	1
5	Screw Spacer B	M8X6	4
6	Body	AL	1
7	Mounting Bracket	SB30	1
8	Ass'y Safety Wire A	NL	1
9	Machine Screw	PH2M X L8	1
10	Machine Screw	PH1M X L8	3
11	Machine Spt	M6	1
12	Aperture Screw	M3X M3 X L5	1
13	CR Ring	SB30	1
14	Top Screw	M4 X 1 (SUS)	4
15	Clear Bubble or Smoke Bubble	ADRY (2.5)	1
16	Fan	FM-20V	1
17	Base Camera	AL	1
18	Machine Screw	PH1M X L8	3
19	Aperture Screw	PH1M X L14	2
20	Screw Spacer A	M8X6	1
21	Heater Bracket	EB1	1
22	Machine Screw	PH1M X L4.5	1
23	Part of Heater Mount	NL	1
24	Heater	AC-20V	1
25	Machine Screw	PH1M X L4.5	2
26	CR Ring	SB30	4

\*The heater does not include the parts of 1, 2 and 6.  
\*You can purchase it from our factory or the dealer.

**4.2 ACCESSORIES**

NO	NAME	STANDARD	QTY
1	Play Bag	BH1M X L8	3
2	Machine Screw	BH1M X L8	3
3	Part of Window	PH2.5mm type	1
4	Manual		1

DOME HOUSING

Please read this manual thoroughly before use, and keep it handy for future reference.

**7. SPECIFICATIONS**

ITEM	DESCRIPTION	VALUE
ELECTRICAL	Power source	20VAC, 50/60Hz
	Power consumption	Max: 10Watt (CONV: Max. 100Watt) Blower: 2.4Watt
MECHANICAL	Construction	Aluminum, Steel and Plastic (ABS)
	Finish	Polycarbonate Powder Coat
	Dome Bubble	PMMA (PC/PS)
	Weight	Refer to the Figure 5. Approx. 0.3kg(2.2kg) with sunshield Approx. 0.07kg(0.2kg)
OPERATION	Operating Temperature	-45°C to 55°C
	Storage	0~65°C

**8. DIMENSION**

Figure 5. Dimension Drawing

**1. GENERAL**

**1.1 IMPORTANT SAFEGUARDS**  
Prior to install and use of this product, the following WARNINGS should be observed.  
1. Installation and servicing should only be done by qualified service personnel and conform to all local codes.  
2. Unless the unit is specifically marked as a PEX, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.  
3. After replacement of the unit.

**1.2 WARNINGS AND CAUTIONS**  
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

**CAUTION:**

**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT REMOVE COVER OR BACK.  
NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**EXPLANATION OF GRAPHICAL SYMBOLS**

**2. DESCRIPTION**

The Indoor/Outdoor dome housing is used with dome camera. The housing is constructed of aluminum, steel and plastic. The housing is designed to be mounted on both the wall and the ceiling. The housing meets International (IP65) standards for dust and moisture resistance. Sunshield model is available for application to avoid the direct rays of the sun.

**3. INSTALLATION**

Refer to the pages of 6. PARTS LIST.

- Install a mounting base on the ceiling of the wall using leveling screws (Gasket Mount: LME, Wall Mount: LML, Power Box: LMO) and plastic fasteners.
- For setting, the structure that a mounting base is installed on should be strong enough to support a minimum of 20kg (45.1 lb).
- For setting, a mounting base should be strong enough to support a minimum of 19.8kg (43.6lb).
- Wind Nylon tape around the thread of "A".  
(Figure 1) about 20 times for seal.
- Put all of the required cables through a mounting base and its pipe.
- Put "N" seal Nylon tape to ventiler around in the case and turn this unit until it is securely fastened.
- Connect the power connector of 20VAC of the cables to "AC IN" of fan & heater board.
- Connect the power the Alarm and the communication lines in the cables to the connectors of the Base Board of the Dome Camera.
- Fasten the Dome Base on the Screw Spacer (Using 3 screws(BH M4xL5)).
- Attach the Dome Body to the Dome Base.  
After aligning the arrow mark of the Dome Base with the arrow mark of the Dome Body, turn the Dome Body to the dot mark direction.

Note : It is recommended to remove the Window and the Bubble Ring Assy of the Dome Camera to improve the quality of picture. Refer to the figure 2.

- Insert the Heater Gasket (Part of the Body) and fasten the Bubble Ring (Part of the Body) (Using 3 screws).

**4. OPERATION**

The housing has controlled the heater and the fan by a thermostat. The thermostat of heater is set to turn on from 4°C (41°F) and to turn off from 15°C (61°F). The thermostat of fan is set to turn on from 40°C (104°F) and to turn off from 30°C (86°F).

**5. MAINTENANCE**

Perform the following maintenance at regularly scheduled intervals to extend the operational life and appearance of the equipment.  
Clean the Bubble with a mild, nonabrasive detergent in water and a soft cloth to maintain picture clarity.

**6. PARTS LIST**

Figure 4. Exploded Assembly Diagram

**2. DESCRIPTION**

The Indoor/Outdoor dome housing is used with dome camera. The housing is constructed of aluminum, steel and plastic. The housing is designed to be mounted on both the wall and the ceiling. The housing meets International (IP65) standards for dust and moisture resistance. Sunshield model is available for application to avoid the direct rays of the sun.

**3. INSTALLATION**

Refer to the pages of 6. PARTS LIST.

- Install a mounting base on the ceiling of the wall using leveling screws (Gasket Mount: LME, Wall Mount: LML, Power Box: LMO) and plastic fasteners.
- For setting, the structure that a mounting base is installed on should be strong enough to support a minimum of 20kg (45.1 lb).
- For setting, a mounting base should be strong enough to support a minimum of 19.8kg (43.6lb).
- Wind Nylon tape around the thread of "A".  
(Figure 1) about 20 times for seal.
- Put all of the required cables through a mounting base and its pipe.
- Put "N" seal Nylon tape to ventiler around in the case and turn this unit until it is securely fastened.
- Connect the power connector of 20VAC of the cables to "AC IN" of fan & heater board.
- Connect the power the Alarm and the communication lines in the cables to the connectors of the Base Board of the Dome Camera.
- Fasten the Dome Base on the Screw Spacer (Using 3 screws(BH M4xL5)).
- Attach the Dome Body to the Dome Base.  
After aligning the arrow mark of the Dome Base with the arrow mark of the Dome Body, turn the Dome Body to the dot mark direction.

Note : It is recommended to remove the Window and the Bubble Ring Assy of the Dome Camera to improve the quality of picture. Refer to the figure 2.

- Insert the Heater Gasket (Part of the Body) and fasten the Bubble Ring (Part of the Body) (Using 3 screws).

**4. OPERATION**

The housing has controlled the heater and the fan by a thermostat. The thermostat of heater is set to turn on from 4°C (41°F) and to turn off from 15°C (61°F). The thermostat of fan is set to turn on from 40°C (104°F) and to turn off from 30°C (86°F).

**5. MAINTENANCE**

Perform the following maintenance at regularly scheduled intervals to extend the operational life and appearance of the equipment.  
Clean the Bubble with a mild, nonabrasive detergent in water and a soft cloth to maintain picture clarity.

**6. PARTS LIST**

Figure 4. Exploded Assembly Diagram

**NOTES**

- MODEL: HDH304-IS, IC, OS, OC / ALL BRAND
- MATERIAL: ART PAPER 100g/m<sup>2</sup>, WHITE  
BIND : STAPLES-2
- FINISH: -----
- COLOR: TEXT-BLACK
- SIZE: 210(+/-5)mm x 297(+/-5)mm
- ANY CHANGE OR ALTERNATION MUST BE APPROVED BY HITRON DESIGN TEAM.

- IS type : Smoke Bubble, w/o SunShield
- IC type : Clear Bubble, w/o SunShield
- OS type : Smoke Bubble, with SunShield
- OC type : Clear Bubble, with SunShield

A4용지에 앞뒤인쇄 후 2단접지

도급품

50302223

ITEM	DESCRIPTION/MATERIAL	QTY
PARTS LIST		
TITLE		
MANUAL INSTRUCTION		
DATE		
07-22-M8		
SIZE		
A4		
REV.		
D		
SCALE		
DO NOT SCALE		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM.		APPROVALS		DATE	
TOLERANCE		N.C.PARK	CHKED	W.S.CHOI	07-22-M8
LABEL	+/- 1.5				
MANUAL	+/- 3.5				
ANGULAR	+/- 0.5				
MATERIAL	2				
FINISH	3				



# 1. GENERAL

## 1.1 IMPORTANT SAFEGUARDS

Prior to install and use of this product, the following WARNINGS should be observed.

1. Installation and servicing should only be done by qualified service personnel and conform to all local codes.
2. Unless the unit is specifically marked as a IPXX, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. After replacement/repair of this unit

## 1.2 WARNINGS AND CAUTIONS:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

### CAUTION:



### EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "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 the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

# 2. DESCRIPTION

The Indoor/Outdoor dome housing is used with dome camera. The housing is constructed of aluminum, steel and plastic. The housing is designed to be mounted on both the wall and the ceiling. The housing meets international IP66 standards for dust and moisture resistance. Sunshield model is available for application to avoid the direct rays of the sun.

## 3. INSTALLATION

Refer to the pages of 6. PARTS LIST.

1. Attach a mounting base on the ceiling or the wall using tapping screws (Ceiling Mount : M6, Wall Mount : M8, Power Box : M6) and plastic bushings.

### CAUTION :

- For safety, the structure that a mounting base is installed on should be strong enough to support a minimum of 25kg (55.1 lb).
- For safety, a mounting base should be strong enough to support a minimum of 19.8lb (9kg).

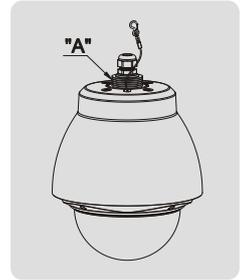


Figure 1

2. Wind Teflon Tape around the thread of "A" (Figure 1.) about 20 times for seal.
  3. Pull out all the required cables through a mounting base and its pipe.
  4. Fit "A" that Teflon Tape is wound around to the base and turn this unit until it is securely fastened.
  5. Connect the power connector of 24VAC of the cables to "AC IN" of fan & heater board (23).
  6. Connect the power, the Alarm and the communication lines in the cables to the connectors of the Base Board of the Dome Camera.
  7. Fasten the Dome Base on the Screw Spacer (18) using 3 screw (BH M4xL8)
  8. Attach the Dome Body to the Dome Base.  
After aligning the arrow mark of the Dome Base with the unlock mark of the Dome Body, turn the Dome Body to the lock mark direction.
- Note : It is recommended to remove the Window and the Bubble Ring Ass'y of the Dome Camera to improve the quality of picture. (Refer to the Figure. 2)
9. Insert the Rubber Gasket (7) into the Body (6) and fasten the Bubble Ring (11) to the Body (6) using 3 screws (13).

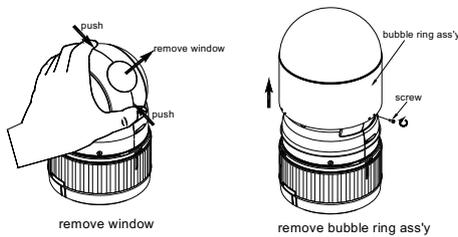


Figure 2. Remove the Window and the Bubble Ring Ass'y

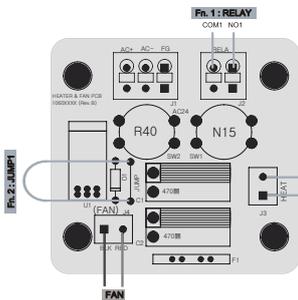


Figure 3. Fan & Heater Board Diagram

### FUNCTION

**JUMP1 :**  
Join JUMP 1 each other to operate the Fan continuously irrespective of temperature changes.

**Relay :**  
Connect the Alarm OUT(Relay) of a Dome to this Relay to work the Heater irrespective of temperature changes. (ex. After connecting RC1 and NO1 of a Dome to this Relay, turn on the Alarm out 1 in the Dome.(Heater ON))

## 4. OPERATION

This housing has controlled the heater and the fan by a thermostat. The thermostat of heater is set to turn it on from 4°C(±5°C) and to turn it off from 15°C(±5°C). The thermostat of fan is set to turn it on from 40°C(±5°C) and to turn it off from 30°C(±5°C).

## 5. MAINTENANCE

Perform the following maintenance at regularly scheduled intervals to extend the operational life and appearance of the equipment.  
Clean the Bubble with a mild nonabrasive detergent in water and a soft cloth to maintain pictures clarity.

## 6. PARTS LIST

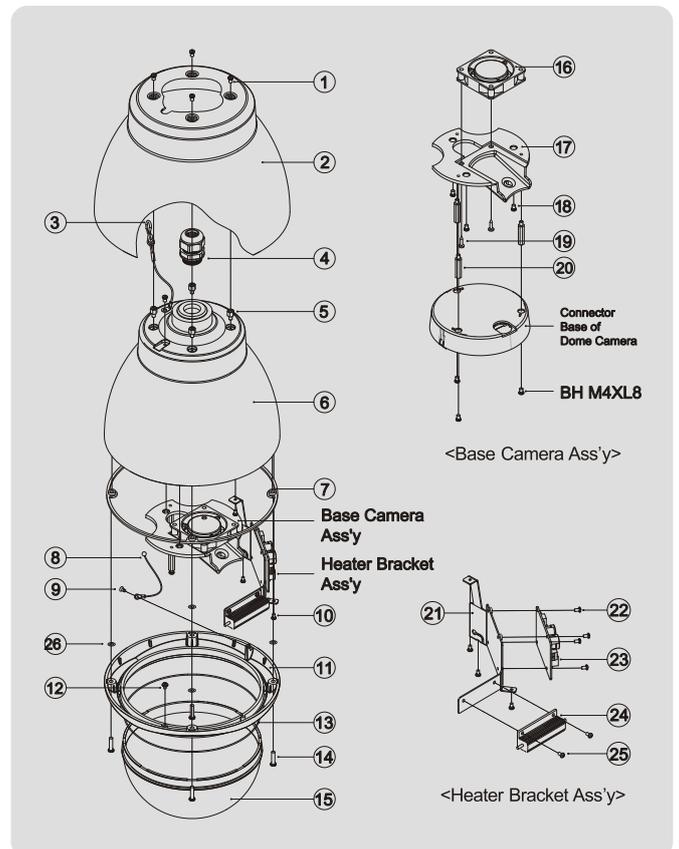


Figure 4. Exploded Assembly Diagram