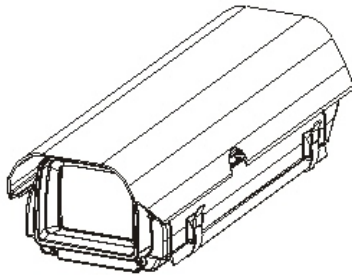


INSTALLATION MANUAL

CAMERA HOUSING Series

10-Inch/12-Inch CAMERA ENCLOSURES



Please read this manual thoroughly before use and keep it handy for future reference.
Rev. 04/009/08

140(+/-5)mm

215(+/-5)mm

PRODUCTION RELEASE & REVISION						
REV	DESCRIPT'N/BUYER	DWG No	PARTS No.	BY	CHK	DATE
A	INITIAL / ALL BRAND		50301507	S.A.PARK	Y.W.YOON	05-02-M2
B	내용수정		50301507	S.A.PARK	N.C.PARK	09-07-M4

BUYER BRAND TYPE (Label: 50201073)

BRAND	MODEL No.	30mm
	ADDRESS	
120mm		

ex) HITRON TYPE



Model No.: HCH830M-2HBS


AC/CA 24V ~ 60Hz Max. 25W

HITRON SYSTEMS INC.
109-19 MAJEON-RI, SAMJUK-MYEON,
ANSUNG-CITY, KYUNGKI-DO, 456-881 KOREA

NOTES

- MODEL: HCH830S-S외 / ALL BRAND
- MATERIAL: ART PAPER 100g/m², WHITE
BIND : STAPLES-2
- FINISH: -----
- COLOR: TEXT-BLACK
- SIZE: 140(+/-5)mm x 215(+/-5)mm R: 0.0
- ANY CHANGE OR ALTERNATION MUST BE APPROVED BY HITRON ENGINEERING.

도급품 50301507

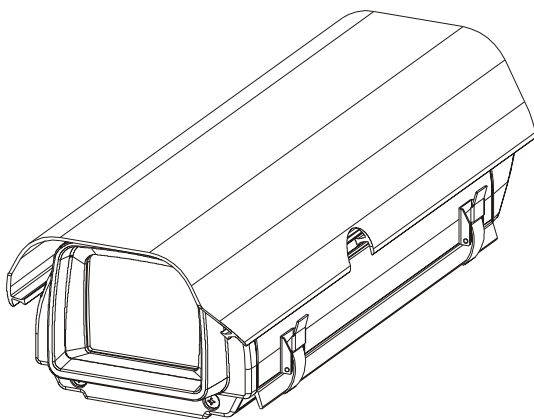
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM. - TOLERANCE LABEL +/- 1.5 MANUAL +/- 3.5 ANGULAR +/- 0.5		APPROVALS		DATE			
		N.C.PARK		09-07-M4			
MATERIAL		CHKED				TITLE MANUAL INSTRUCTION	
FINISH		DRAWN		S.A.PARK		09-07-M4	
[2]						SIZE A4 DWG No [] REV. A	
[3]				P/N 50301507		SCALE DO NOT SCALE	



MANUAL INSTRUCTION

CAMERA HOUSING Series

10-Inch/12-Inch CAMERA ENCLOSURES



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

Rev.0400908

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1. CAMERA HOUSING SERIES INTRODUCTION

1.1 PURPOSE

The camera housing series are stylishly and functionally designed enclosures for 1/2" and 1/3" CCD cameras with fixed focal length or small zoom lenses. This manual describes how to assemble the housing and its optional components, affix the camera, and mount the assembly to a suitable surface.

1.2 FEATURES

The camera housing series includes the following feature:

- Contemporary design
- Die-cast and extruded aluminum construction
- Adjustable mounting track
- Removable body for easy servicing
- Optional heater kit, blower kit and snap-on sunshield components
- Indoor/outdoor applications
- Epoxy powder coating for corrosion resistance
- IP66 rated

2. HOUSING INSTALLATION INSTRUCTIONS

2.1 CONTENTS OF PACKAGE

Remove the camera housing from the carton and verify that it was not damaged in shipment.

The package includes:

1. Camera housing (including screws and washers)
2. Optional accessories and hardware
(varies by specific model purchased.)
3. Desiccant bag
4. UNC 1/4"-20 machine screws
5. Manual

2.2 PREPARATION FOR INSTALLATION

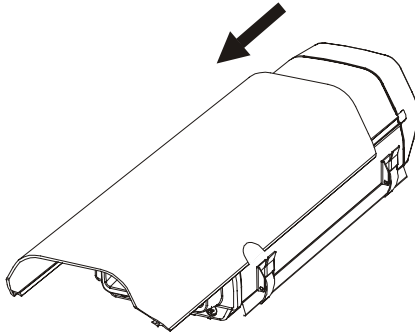
This section contains comprehensive instructions for installing the heater kit and blower kit for the camera housing series. These kits are sold as add-on components or are available in a pre-assembled package. The MODEL A(B)-HB is a 10(12)-inch camera housing with an installed sunshield, heater and blower.

After unpacking and identifying the package contents, perform the following steps to mount the camera in the housing:

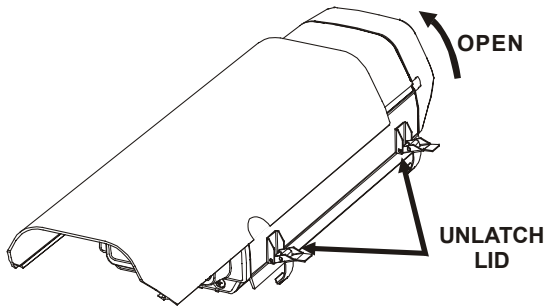
1. Locate the following items which may be needed during installation but are NOT supplied with the enclosure:
 - Screwdriver
 - Camera and camera cable
 - Power supply

2.2 PREPARATION FOR INSTALLATION

2. If applicable, move the sunshield by sliding it forward on the main housing unit. Set the sunshield aside until needed.



3. Unlatch the lid and open the upper body.

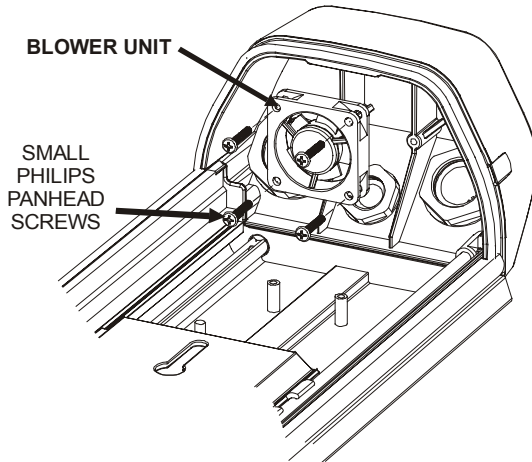


4. Before closing the housing, remove the desiccant bag from the protective packaging and place the desiccant bag inside the housing to absorb moisture.
5. Locate the gold, panhead 1/4"-20 UNC screws and set them aside for later use.
6. Continue with installation of additional components as needed. If no additional components are installed, continue to instructions for camera mounting.

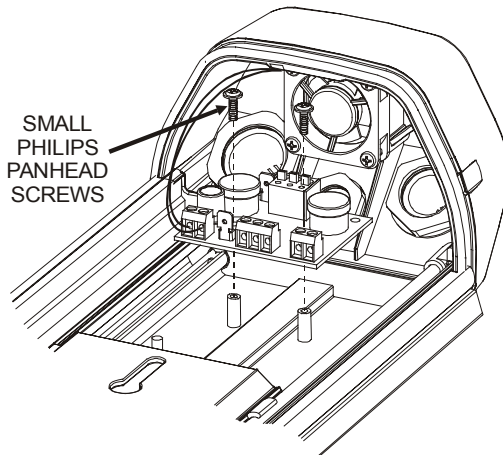
2.3 INSTALLATION OF OPTIONAL COMPONENTS

2.3-1 BLOWER KIT INSTALLATION

1. Mount the blower unit located two on the rear of the housing. Align the hole and secure using the small Philips panhead screw.

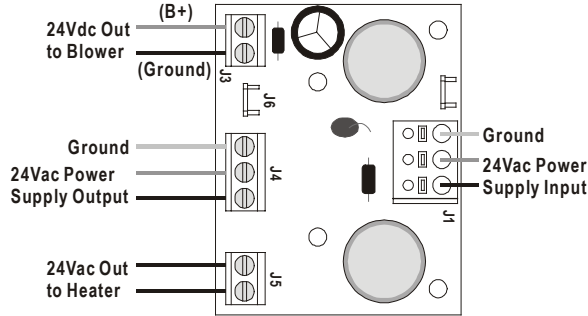


2. Mount the blower circuit board located on the lower body. Align the holes and keep the wiring on the same side. Insert the small Philips panhead screws and secure the assembly.



2.3 INSTALLATION OF OPTIONAL COMPONENTS

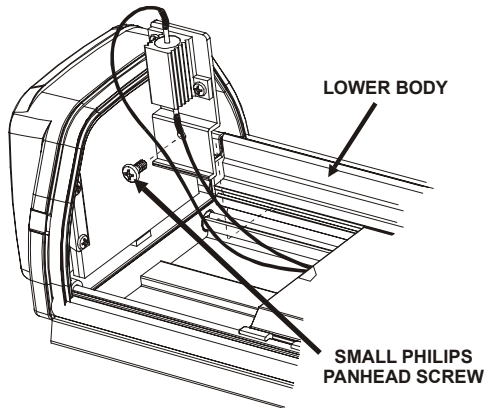
3. Connect the external power supply (not included) to the circuit board. The recommended power supply is 24Vac, 50VA.



4. If adding a heater kit, see instructions for adding both the blower kit and heater kit. If no other components will be added, proceed to camera mounting instructions.

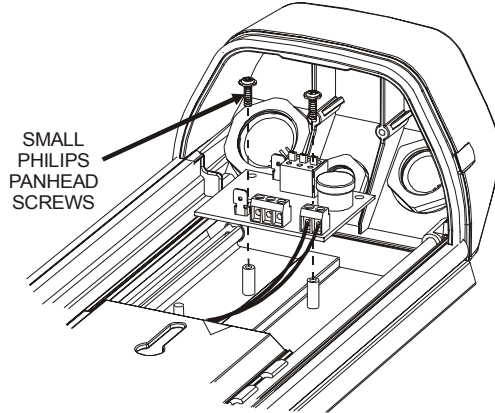
2.3-2 HEATER KIT INSTALLATION

1. Mount the heater unit in on the support rail on the lower body. Align the tapped hole and secure the unit using the small Phillips panhead screw.

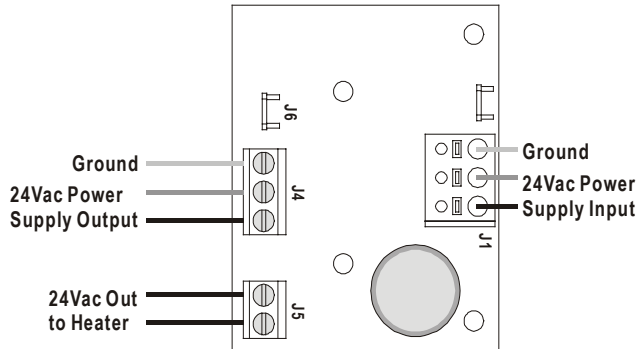


2.3 INSTALLATION OF OPTIONAL COMPONENTS

2. Mount the heater circuit board on the lower body. Align the holes and keep the wiring on the same side. Use the small Phillips panhead screws to secure the assembly.



3. Connect the external power supply (not included) to the circuit board. The recommended power supply is 24Vac, 50VA.

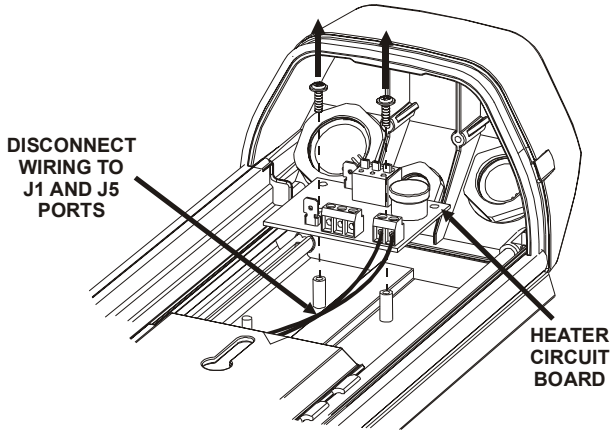


4. Continue with instructions for mounting the camera.

2.3 INSTALLATION OF OPTIONAL COMPONENTS

2.3-3 BLOWER KIT WITH HEATER KIT

1. Follow steps detailed previously to install the Blower Kit.
2. Using a small screwdriver, disconnect the wiring to the J1 and J5 ports on the heater circuit board.

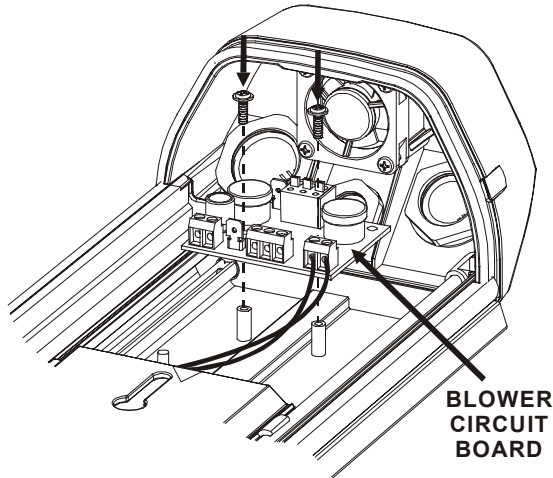


3. Replace the heater circuit board with the circuit board that is wired to the blower. To do this, locate the two Philips panhead screws on the heater circuit board. Unscrew them and remove the board from the lower body of the housing.

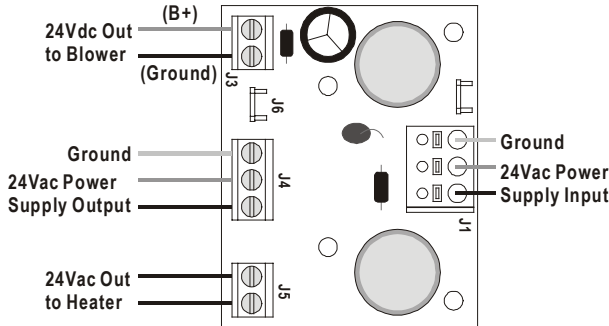
Mount the blower circuit board located on the lower body. Align the holes and keep the wiring on the same side. Use the small Philips panhead screw to secure the assembly.

(Refer to drawing on next page.)

2.3 INSTALLATION OF OPTIONAL COMPONENTS



4. Connect the heater wiring harness to the blower circuit board as shown. Connect the external power supply (not included) to the circuit board. The recommended power supply is 24 V ac, 50 VA.

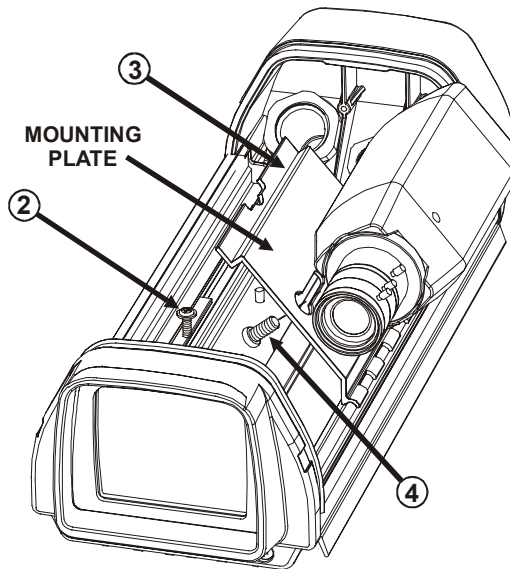


5. Continue with instructions for mounting the camera.

2.4 CAMERA MOUNTING

This section contains comprehensive instructions for installing a camera into any one of the camera housing series. If you are installing optional equipment, such as a heater/blower kit, please consult instructions detailed previously for installation of optional components. Continue with mounting the camera only when instructed.

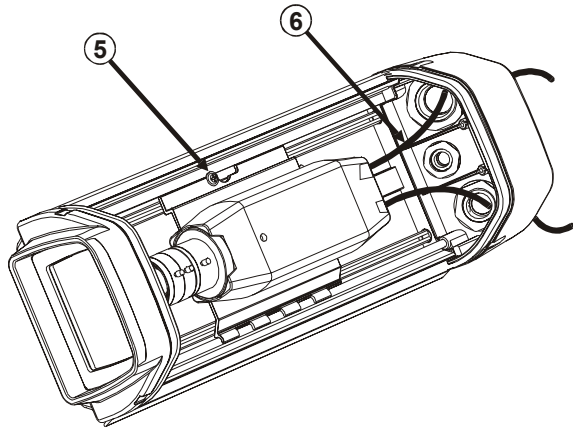
1. Follow instructions detailed under "PREPARATION FOR INSTALLATION" section.
2. Remove the mounting plate from the lower body by unscrewing the one Philips panhead screw. Retain the screw.



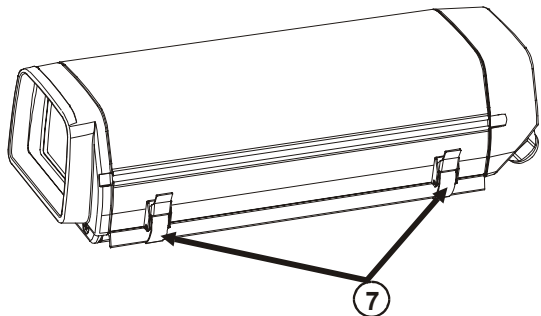
3. Tilt the mounting plate.
4. Install the camera using the 1/4" Philips panhead screw. The mounting plate may need to be turned over to better accommodate your camera.

2.4 CAMERA MOUNTING

5. Return the mounting plate to its original position and secure the assembly by tightening the Philips panhead screw through the mounting plate into the lower body.
6. Insert the camera cable through the compression glands and make all of the necessary electrical connections as described in the camera instructions. Be sure that the compression glands are firmly fixed.



7. Reassemble the housing unit, close the upper body, and latch the lid.



8. If applicable, reinstall the sunshield by sliding it across the top of the housing unit.

2.5 SUNSHIELD INSTALLATION

This section contains instructions for installing the sunshield for the camera housing series. The sunshield is sold as an optional component and is also available in a pre-assembled package.

The MODEL A(B) is the pre-assembled camera housing and sunshield combination.

1. After the camera is installed and the housing is reassembled, install the sunshield by sliding it across the top of the housing unit. (Begin at the front of the housing.)
2. To mount the completed assembly, refer to the bracket mounting instructions.

2.6 WALL BRACKET MOUNTING

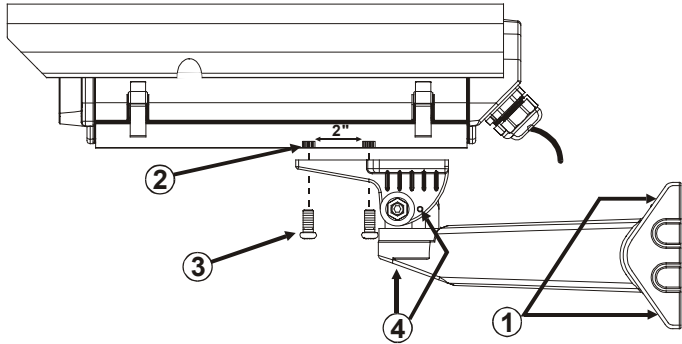
This section contains instructions for mounting the recommended wall bracket (sold separately).

Be sure that the camera and optional components have been properly installed before proceeding with the mounting instructions.

1. Use fasteners of appropriate size and type to attach the bracket to the wall surface. Position the housing so that it allows for viewing of the selected area.
2. Locate two nuts that freely slide along the channel. Position the nuts approximately 2 inches from each other.
3. Place the housing onto the mount, aligning the holes. Insert the two provided 1/4"-20 UNC screws through the mount and into the nuts. Secure the assembly.

2.6 WALL BRACKET MOUNTING

4. Adjust the moveable arm of the wall bracket to attain the desired position. Once it is in place, tighten the bolt located at the pivot point of the movable arm and tighten set screw.



2.7 MAINTENANCE

Regularly scheduled maintenance prolongs the operational life and appearance of equipment.

On a regular basis, perform the following:

- Clean the viewing area window with a soft cloth using a mild detergent and water to maintain picture quality.
- Verify that all mounting hardware is secure.

3. SPECIFICATIONS

3.1 CAMERA HOUSING SERIES SPECIFICATIONS

Dimensions (WxHxL):	(with sunshield)
MODEL A	5.8 x 4.6 x 14.0 in (147 x 118 x 356 mm)
MODEL B	5.8 x 4.6 x 16.0 in (147 x 118 x 406 mm)
Weight: MODEL A	4.9 lbs. (2.2 kg)
MODEL B	5.5 lbs. (2.5 kg)
Maximum Camera Size (WxHxL):	Accommodates camera/lens combinations (Including BNC) up to:
MODEL A	3.1 x 3.2 x 9.5 in (78 x 82 x 240 mm)
MODEL B	3.4 x 3.2 x 11.4 in (78 x 82 x 290 mm)
Option Heater & Blower:	
MODEL A	3.1 x 3.2 x 7.1 in (78 x 82 x 180 mm)
MODEL B	3.1 x 3.2 x 9.0 in (78 x 82 x 230 mm)
Viewing Area:	2.9 x 2.4 in (73 x 61 mm)
Viewing Window:	Clear 1/8" Double Density Glass
Construction:	Extruded and Die-cast Aluminum
Finish:	Epoxy Powder Coating
Environment:	Indoor / Outdoor: -4°F to 140°F (-20°C to 60°C) IP66 Rated
Camera Mounting:	Slotted camera sled.
Recommended Mounts:	Ceiling J Mount & Wall Mount
Cable Entry:	3 compression fittings, PG9, PG16, PG21.

3.2 SUNSHIELD (OPTIONAL)

Dimensions: (sunshield only)

MODEL A 5.83 x 2.36 x 14.0 in
 (148 x 60 x 356 mm)

MODEL B 5.83 x 2.36 x 16.0 in
 (148 x 60 x 406 mm)

Weight:

MODEL A 0.88 lbs (0.4 kg)

MODEL B 1.23 lbs (0.5 kg)

3.3 HEATER (OPTIONAL)

Power Supply: 24V ac

Power Consumption: 20W

Heater ON: Heater turns ON at 41°F (5°C)

Heater OFF: Heater turns OFF at 59°F (15°C)

3.4 BLOWER (OPTIONAL)

Power Supply: 24V ac

Power Consumption: 3.4W

Blower ON: Blower turns ON at 104°F (40°C)

Blower OFF: Blower turns OFF at 86°F (30°C)