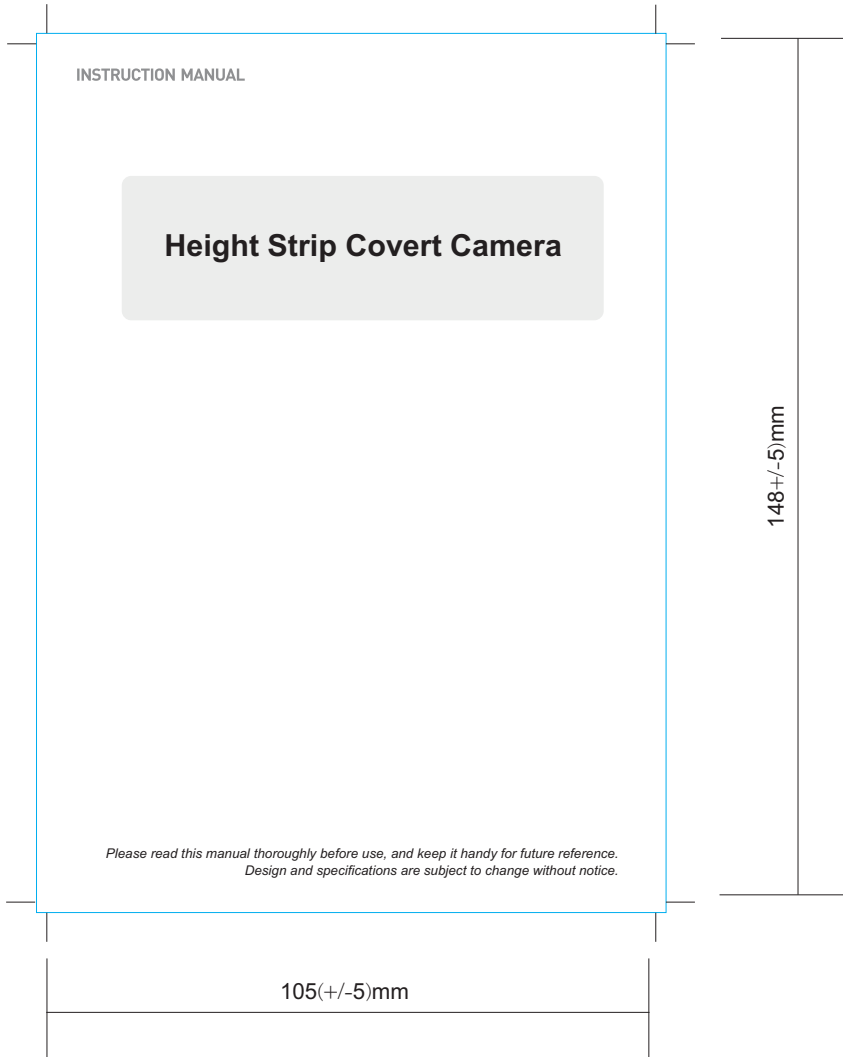


PRODUCTION RELEASE & REVISION						
REV	DESCRIPT'N/BUYER	DWG No	PARTS No.	BY	CHK	DATE
A	INITIAL	-----	50303702	J.Y.LIU	M.J.KWON	14-02-06



NOTES

- 1.MODEL: **HCE-N41KNF3SH(960H height-strip)**
- 2]MATERIAL: 모조지 100g/m² WHITE
- 3]COLOR: BLACK
- 4.SIZE: 105(+/-5)mm x 148(+/-5)mm
- 5.LABEL: -----
- 6.ANY CHANGE OR ALTERNATION MUST BE APPROVED BY HITRON DESIGN TEAM.

의 내	전자	
	장경석	
	14-02-06	

50303702		ITEM	DESCRIPTION/MATERIAL	QTY
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM.		PARTS LIST		
- TOLERANCE LABEL +/- 3 MANUAL +/- 5 GUIDE +/- 5		APPROVALS	DATE	 Instruction Manual
		J.H.JUNG	14-02-06	
MATERIAL	2	CHKED	M.J.KWON	14-02-06
COLOR	3	DRAWN	J.Y.LIU	14-02-06
		SIZE	A4	REV. A
		SCALE DO NOT SCALE		

Height Strip Covert Camera

*Please read this manual thoroughly before use, and keep it handy for future reference.
Design and specifications are subject to change without notice.*

FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.


FCC INFORMATION : 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 the user will be required to correct the interference at his own expense.

CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE COMPLIANCE STATEMENT

WARNING : This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
 2. Keep these instructions.
 3. Heed all warnings.
 4. Follow all instructions.
 5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
 6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 7. Only use attachments/accessories specified by the manufacturer.
 8. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- 
- 9. CAUTION - THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.**
- 10. Use satisfy clause 2.5 of IEC60950-1/UL 60950-1 or Certified/Listed Class 2 power source only.**
11. Indoor use only.

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.

INTRODUCTION

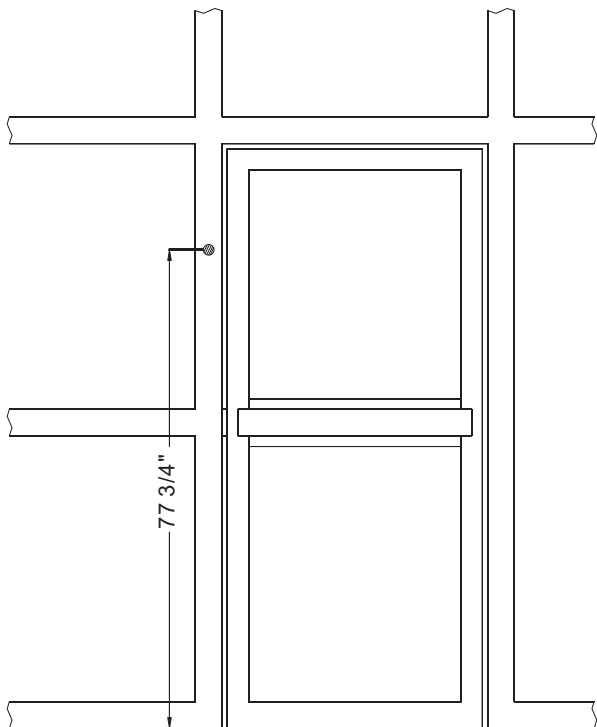
Features:

- High resolution and high performance 1/3" Color CCD
- Excellent picture quality
- 700 lines of resolution(Color)
- 0.1 lux(Color), 0.04ux(B/W) @ F1.2 50IRE Sensitivity
- Auto electronic shutter [1/60(1/50) ~ 1/100,000]
- Auto white balance
- AGC (Auto Gain Control)
- Use Certified / Listed Class 2 power source only
- 2D DNR(Digital Noise Reduction)
- Side Light Compensation
- 3.7mm Pin hole Lens
- BNC (Video connection) 2-Pin terminal block (Power)
- Operates in DC12~15V +/- 10%



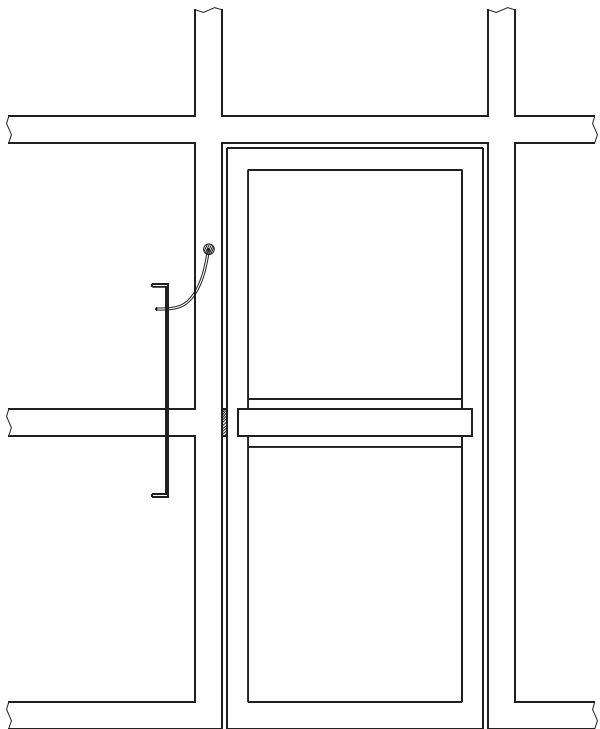
IMPORTANT : The user of this camera is responsible for checking and complying with local, state, and federal laws and statutes concerning the recording and monitoring of audio signals.

Step 1



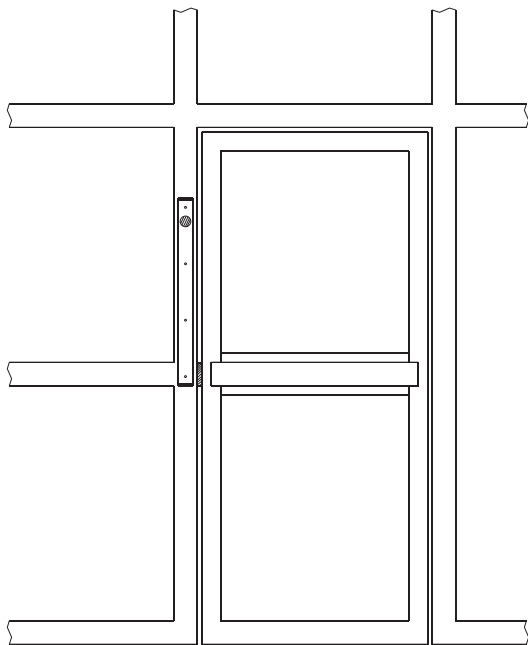
Drill feed-thru hole for cable on mounting surface $77 \frac{3}{4}$ " above the finished floor.

Step 2



Feed wire through the 3/4" hole on the gimble mount.

Step 3



Center the gimbal mount to mounting surface and mark the mounting holes for the gimbal mount on the surface.

Secure the gimbal mount to the surface using installer supplied self tappers for aluminum frame structure.

If mounting on soft surface such as drywall be sure to use to use anchors.

Step 4

Completing the housing installation

Remove the five white head M4 screws that hold the face plate to the housing and set the face plate aside.

Feed the wire coming through the gimbal mount through the 3/4" hole in the back of the camera housing.

Attach the camera housing to the gimbal mount using the M6 Allen head screws and washer previously removed.

Place the external tooth washer between the housing and the gimbal mount then the split lock washer on the M6 screw and insert the screw into the housing through the gimbal mount and external tooth lock washer.

Install the bolt and washers assembly at the bottom and top of the gimbal mount finger tight. (See Figure-1)

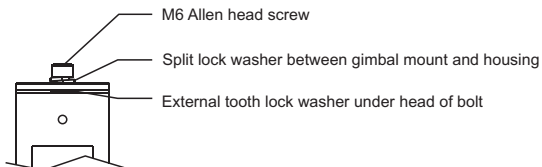


Figure-1

After connecting the video and power to their proper connections replace the face plate that was removed in an earlier step using the five screws.

Adjust the position of the housing in the gimbal mount for the proper view and then tighten the top and bottom Allen head screws using an Allen head wrench.

Verify that the housing is in the proper position and is secure.



Optional Camera Height Setting

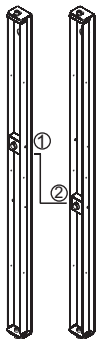


Figure-2

1. The Height strip camera has the capability to be set in the housing at 5ft or 5.5ft above the floor.

The default setting of the camera is set to 5.5ft.

If the lower setting is desired the following housing change must be completed.

- * Remove housing from gimbal
- * Note the position of the hole in the housing base for cable throughput



The cable hole is at the top of the mounting bracket

- * Remove three Allen head screws along each side of the housing and separate the front cover with the camera from the housing base.



Allen head screw

- * From ① to ② to change the camera position. (See Figure-2)
 - * Replace the front cover with the camera to the housing base after turning the cover 180° from original position.
- Replace the three Allen head screws along each side of the housing and continue the installation

2. Camera lens position can be adjusted up and down 5 degrees.

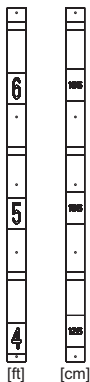
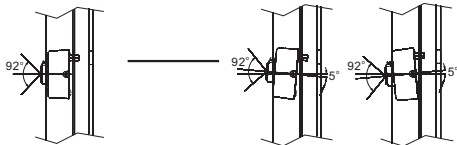


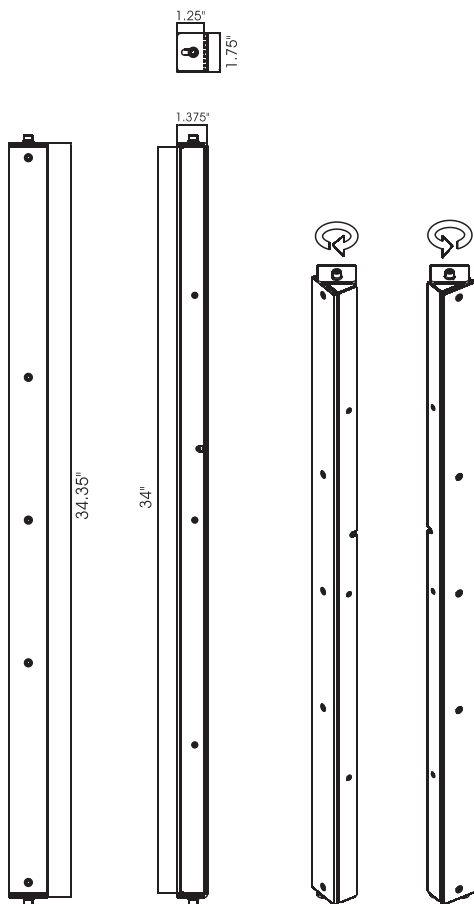
Figure-3

3. Two height marker strips are provided, one marked in feet and one marked in centimeters. Use the appropriate one. (See Figure-3)

DIMENSIONS

HEIGHT STRIP CAMERA

Unit: inch



SPECIFICATIONS

MODEL		NTSC	PAL
Power	Power source	DC12~15V +/-10%	
	Power consumption	130mA (1.5 Watts)	
General	Image sensor	1/3" Color CCD	
	Number of pixels	976(H) x 494(V)	976(H) x 582(V)
	Scanning system	2:1 interface	
	Scanning frequency	15.734KHz(H) x 59.94Hz(V)	15.625KHz(H) x 50Hz(V)
	Sync. system	Internal	
	Electronic shutter	1/60 ~ 1/100,000 sec.	1/50 ~ 1/100,000 sec.
	Resolution	700 TV lines (Color)	
	Min. illumination	0.1 lux(COLOR), 0.04 lux(BW) @ F1.2, 50 IRE	
	Side Light Compensation	Auto	
	Digital Noise Reduction	2D DNR	
	Video output	1.0 Vp-p (75 ohm, composite)	
	S/N ratio	More than 50dB (AGC off)	
	Connector & etc.	AGC	ON
Day / Night		Auto	
White Balance		Auto(ATW)	
Power input		Terminal Block	
Video output		BNC Connector	
Lens mount		Fixed mount	
Lens		F3.7mm Pin hole Fixed	
Operating Temperature		-10°C ~ +50°C [14°F ~ 122°F]	
Operating humidity		0 ~ 96% (non-condensing)	
External Dimension		1.8"(W) x 34.4"(H) x 1.4"(D)	
Weight	set : 1260g packing : 2035g		

* Use the power consumption 2W over.

Height Strip Covert Camera

PRINTED IN KOREA
