

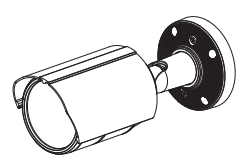
| PRODUCTION RELEASE & REVISION |                  |        |           |         |          |          |
|-------------------------------|------------------|--------|-----------|---------|----------|----------|
| REV                           | DESCRIPT'N/BUYER | DWG No | PARTS No. | BY      | CHK      | DATE     |
| A                             | INITIAL          | -----  | 50303955  | J.Y.LIU | M.J.KWON | 14-07-04 |

접지  
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INSTRUCTION MANUAL

**700TV Lines**  
**Super High Resolution Color Camera**

Weatherproof IR Bullet Camera



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

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**700TV Lines**  
**Super High Resolution Color Camera**

PRINTED IN KOREA      03031775A

**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.


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**IMPORTANT SAFETY INSTRUCTIONS**

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not block any ventral ion openings. Install in accord ance 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 ca. n 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 tips.
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 safety 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.

**LIMITATION OF LIABILITY**  
THE INFORMATION IN THIS PUBLICATION IS BELIEVED TO BE ACCURATE IN ALL RESPECTS. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR ANY CONSEQUENCES 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.


297 (+/-5)mm

**NOTES**

1. MODEL: HCUI-N91KPF3U1/CMTC-6148IR-PC /Nirsun/CAMETRON
2. MATERIAL: 모조지 100g/m<sup>2</sup>, WHITE  
BIND : STAPLES-2
3. COLOR: BLACK
4. SIZE: 105(+/-5)mm x 148(+/-5)mm
5. LABEL: 50201270(81mm x 24mm)
6. ANY CHANGE OR ALTERNATION MUST BE APPROVED BY HITRON DESIGN TEAM.

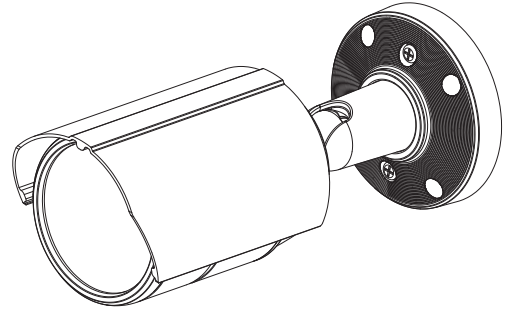
|        |          |
|--------|----------|
| 의<br>면 | 전자       |
|        | 장경석      |
|        | 14-07-04 |

210(+/-5)mm

| 50303955  |   | ITEM      | DESCRIPTION/MATERIAL | QTY  |
|---|---|-----------|----------------------|--|
| UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM. -TOLERANCE |   | APPROVALS | DATE                 | <br><b>MANUAL INSTRUCTION</b> |
| LABEL +/- 3<br>MANUAL +/- 5<br>GUIDE +/- 5                      |   | J.H.JUNG  | 14-07-04             |  |
| MATERIAL  | 2 | CHKED     | M.J.KWON             | 14-07-04   |
| COLOR   | 3 | DRAWN     | J.Y.LIU              | 14-07-04   |
|   |   | SCALE     |                      | DO NOT SCALE   |

# 700TV Lines Super High Resolution Color Camera

Weatherproof IR Bullet Camera



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Design and specifications are subject to change without notice.

## 700TV Lines Super High Resolution Color Camera

PRINTED IN KOREA

50303955A

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### 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.

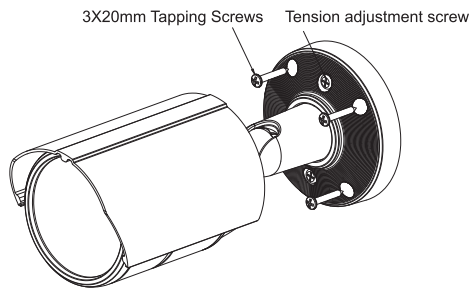


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## BASE INSTALLATION



Position camera for best field of view then tighten camera/mount tension adjustment screws (x2)

### Caution

**"Adjusting the position of the camera after installation could potentially damage the cable"**

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## INTRODUCTION

The camera provides high-quality images using SONY CCD technology especially designed for closed-circuit television (CCTV) and security surveillance applications.

### Features:

- High resolution and high performance Sony®Super HAD™ II Technology
- Excellent picture quality
- 700 lines(Color) of resolution
- 0.1 lux(Color), 0 lux(B/W) @ F1.2 50IRE Sensitivity
- Auto electronic shutter [1/60(1/50) ~ 1/100,000]
- 2D-DNR(Digital Noise Reduction)
- Auto white balance modes
- AGC (Auto Gain Control)
- VIDEO OUT BNC
- 3.6mm Fixed Lens
- Operates in 12VDC
- Use Certified / Listed Class 2 power source only
- Camera Mount : Camera mount directly to the wall or ceiling

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## SPECIFICATIONS

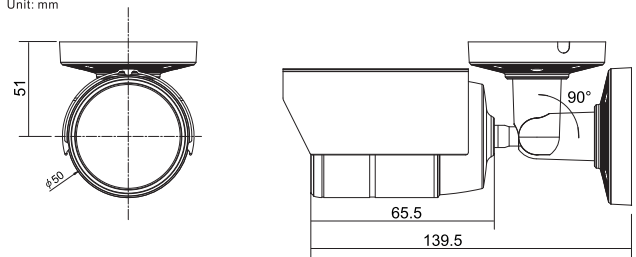
|                       | MODEL                        | (NTSC)  | (PAL)                  |
|-----------------------|------------------------------|---|------------------------|
| Power                 | Power source                 | DC 12V +/- 10%                                    |                        |
|                       | Power consumption            | 290mA(3.5 Watts) - IR LED ON                      |                        |
| General               | Image sensor                 | 1/3" Sony®Super HAD™ II CCD                       |                        |
|                       | Total pixels                 | 1020(H) x 508(V)                                  | 1020(H) x 596(V)       |
|                       | Effective pixels             | 976(H) x 494(V)                                   | 976(H) x 582(V)        |
|                       | Scanning system              | 2:1 interlace                                     |                        |
|                       | Scanning frequency           | 15.734KHz(H) x 59.94Hz(V)                         | 15.625KHz(H) x 50Hz(V) |
|                       | Electronic shutter           | 1/60 ~ 1/100,000 sec.                             | 1/50 ~ 1/100,000 sec.  |
|                       | Sync. system                 | Internal  |                        |
|                       | Resolution                   | 700 TV lines (Color)                              |                        |
|                       | Min. illumination            | 0.1 lux(COLOR), 0 lux(BW at IR ON) @ F1.2, 50 IRE |                        |
|                       | IR LED / SENSOR              | IR LED 24EA(850nm / 50 degree) , CDS 1EA          |                        |
| LED Lighting Distance | 20M                          |   |                        |
| Video output          | 1.0 Vp-p (75 ohm, composite) |   |                        |
| S/N ratio             | More than 50dB (AGC off)     |   |                        |
| Function              | Auto Exposure                | ON  |                        |
|                       | White Balance                | AUTO (ATW)  |                        |
|                       | Day / Night                  | AUTO  |                        |
|                       | 2D-DNR                       | ON  |                        |
|                       | Smart IR                     | ON  |                        |
|                       | AGC                          | AUTO  |                        |
| Gamma                 | 0.45                         |   |                        |
| Connector & etc.      | Power input                  | DC Jack   |                        |
|                       | Video output                 | BNC Connector                                     |                        |
|                       | Lens mount                   | Fixed mount                                       |                        |
|                       | Lens                         | F=3.6mm fixd Lens                                 |                        |
|                       | Operating Temperature        | 14°F ~ 122°F (-10°C ~ +50°C)                      |                        |
|                       | Operating humidity           | 0 ~ 96% (non-condensing)                          |                        |
|                       | Ingress Protection           | Ip67  |                        |
|                       | External Dimension           | Ø50(W) x 140 (D) mm                               |                        |
| Weight                | 425g                         |   |                        |

\* Use the power consumption 4W over.

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## EXTERNAL DIMENSION

Unit: mm



**Weight - Unit:** 0.627 lb. (0.285 kg)

**Shipping:** 0.935 lb. (0.425 kg)

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