

# TEST REPORT

|                                                                                                                                                                       |                                                                                                                                                          |                                                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|
| <br>CTK Co., Ltd.<br><small>The Power Leader of Global Regulatory Compliance</small> | <b>CTK Co., Ltd.</b><br>5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,<br>Gyeonggi-do, Republic of Korea<br>Tel: +82-31-339-9970<br>Fax: +82-31-624-9501 | Report No.:<br>CTK-2023-00921<br>Page (1) / (16) pages |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|

## 1. Applicant

- Name : Hanwha Vision Co., Ltd  
◦ Address : 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488 KOREA  
◦ Date of Receipt : 2023-04-26

## 2. Manufacturer

- Name : Hanwha Vision Co., Ltd

## 3. Use of Report

: Quality control

## 4. Test sample / Model

: NETWORK CAMERA / PNM-C34404RQPZ

## 5. Date(s) of test

: 2023-05-02

## 6. Location of Test

: ☒ Permanent Testing Lab ☐ On Site Testing  
(Address: 5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

## 7. Test Standard (Method) used

: KS C IEC 62262: 2005

## 8. Testing Environment

: Temperature: (25.0 ± 5) °C,  
Humidity: (40.0 ± 5) % R.H.

## 9. Test Results

: Refer to each test items

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
This Test Report cannot be reproduced, except in full.

|             |                                                                                                                               |                                                                                                                                          |
|-------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Affirmation | Tested by<br>Mingi Moon<br><br>(Signature) | Technical Manager<br>SooChan Bae<br><br>(Signature) |
|-------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

Remark. This report is not related to KOLAS accreditation and relevant regulation.

2023-05-09

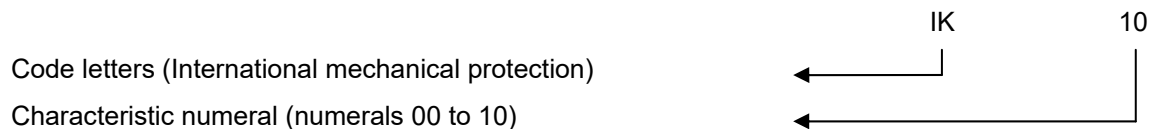
**CTK Co., Ltd**



## 1. Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

### 1.1. Test standard: KS C IEC 62262: 2005

### 1.2. Arrangement of the IK code



### 1.3 Vertical Hammer

#### 1.3.1 Test equipment

| Equipment              | Model                                    | Manufacturer                          | Serial        | Application                         |
|------------------------|------------------------------------------|---------------------------------------|---------------|-------------------------------------|
| Spring impact hammer   | Spring impact hammer<br>(IEC 60068-2-75) | Kingpo Technology Development Limited | KP-SH05       | <input type="checkbox"/>            |
| Vertical Hammer Tester | Vertical Hammer                          | Kingpo technology Development Limited | 0190605A01002 | <input checked="" type="checkbox"/> |
| Vertical Hammer        | 20J                                      | Kingpo                                | TX028-3       | <input checked="" type="checkbox"/> |

#### 1.3.2 Test condition

| IK code                                                                                                        | Impact Energy (J) | Equivalent mass (kg) | Drop height (mm ± 1%) | Application                         |
|----------------------------------------------------------------------------------------------------------------|-------------------|----------------------|-----------------------|-------------------------------------|
| 00                                                                                                             | Non-protected     | -                    | -                     | <input type="checkbox"/>            |
| 01                                                                                                             | 0.14              | 0.25                 | 56                    | <input type="checkbox"/>            |
| 02                                                                                                             | 0.20              | 0.25                 | 80                    | <input type="checkbox"/>            |
| 03                                                                                                             | 0.35              | 0.25                 | 140                   | <input type="checkbox"/>            |
| 04                                                                                                             | 0.50              | 0.25                 | 200                   | <input type="checkbox"/>            |
| 05                                                                                                             | 0.70              | 0.25                 | 280                   | <input type="checkbox"/>            |
| 06                                                                                                             | 1.00              | 0.25                 | 400                   | <input type="checkbox"/>            |
| 07                                                                                                             | 2.00              | 0.50                 | 400                   | <input type="checkbox"/>            |
| 08                                                                                                             | 5.00              | 1.70                 | 300                   | <input type="checkbox"/>            |
| 09                                                                                                             | 10.00             | 5.00                 | 200                   | <input type="checkbox"/>            |
| 10                                                                                                             | 20.00             | 5.00                 | 400                   | <input checked="" type="checkbox"/> |
| - Impact times: five times for each of the exposed surface. (Do not impact more than 3 times in the same spot) |                   |                      |                       |                                     |

|                                                                                                                                                                              |                                                                                                                                                          |                                                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|
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### 1.3.3 Check Item

- External protection Enclosure damage check (except accessories not related to outer protection function)

### 1.3.4 Test Result

| Item                                                                        | Contents  | Result |
|-----------------------------------------------------------------------------|-----------|--------|
| External protection Enclosure                                               | No damage | Pass   |
| Comment<br><br>Some scratches were generated on the outside of the product. |           |        |

### Manufacturer's name

|                                      |                                                                                                                                                                                                                                                                    |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name and address of factory<br>(ies) | 1) HANWHA VISION VIETNAM COMPANY LIMITED<br>LOT O-2, Que Vo Industial Zone extended area, Nam Son commune, Bac Ninh, Bac Ninh province, Vietnam<br><br>2) D-TECH CO. LTD<br>173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea(Suwon Industrial Complex) |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

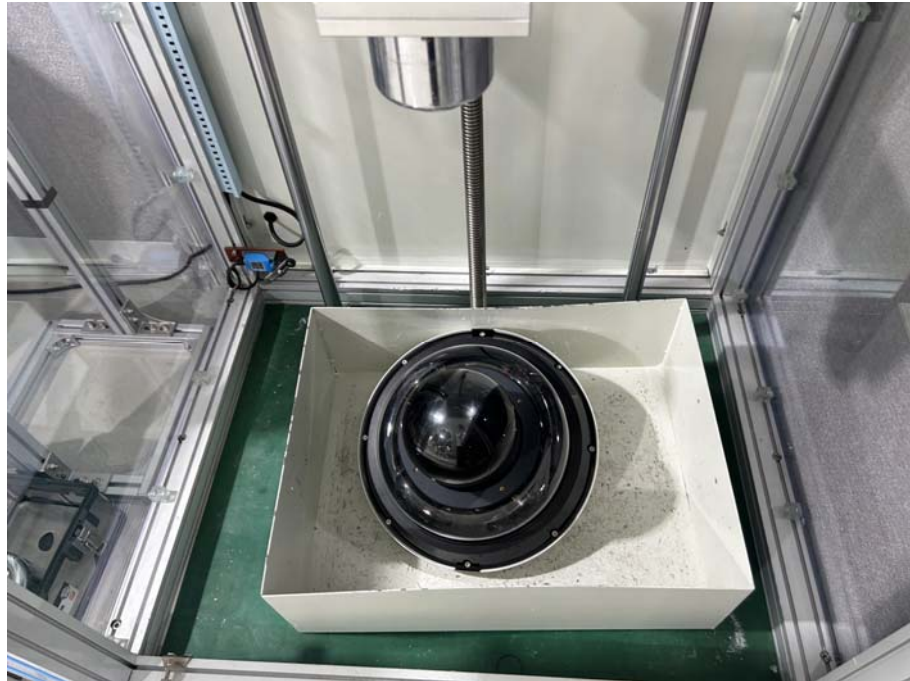
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--|
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## 2. APPENDIX

### 2.1. Product Photographs



## 2.2. Test photos



### 2.3. Photos after test











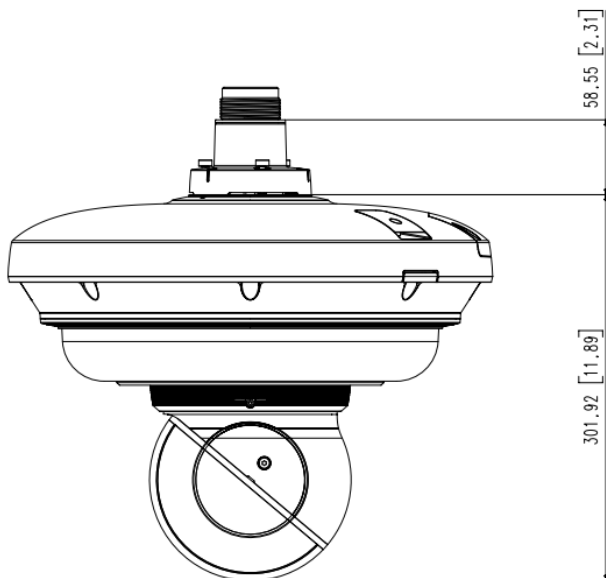
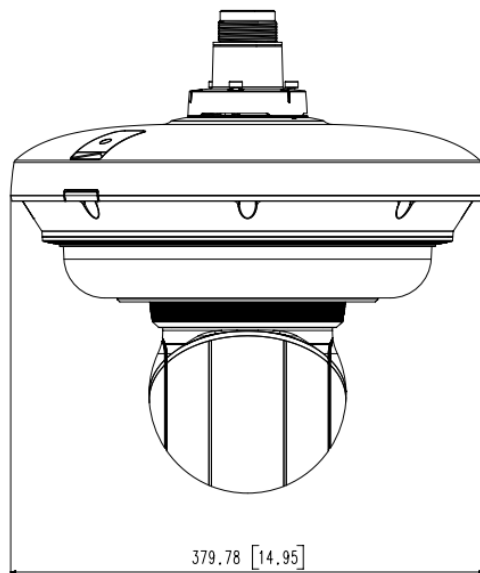
## 2.4. Enclosure Dimensions or Impact point (Unit: mm)

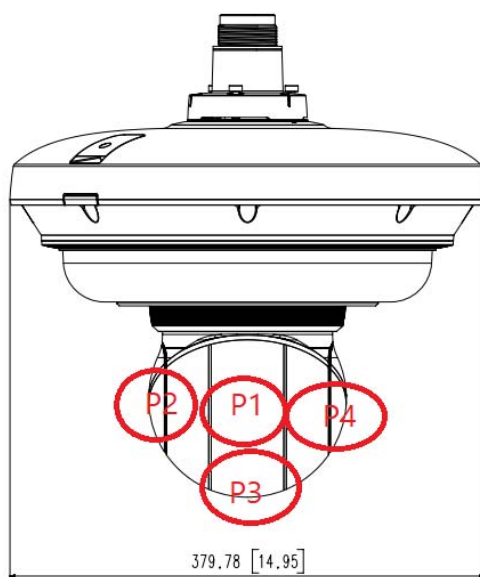


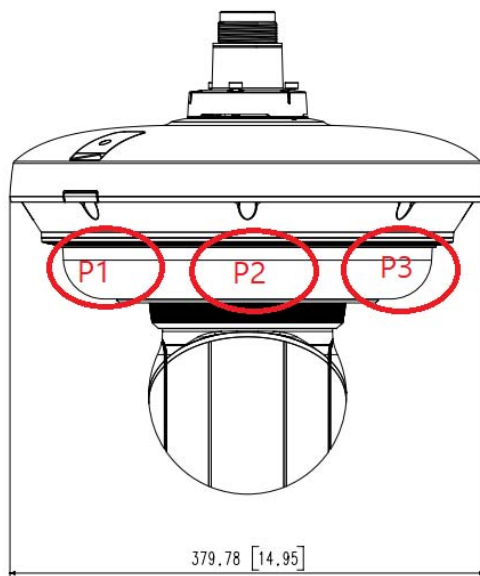
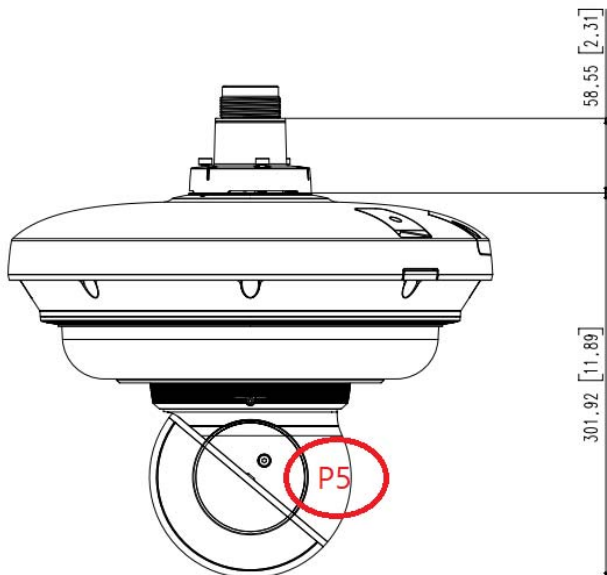




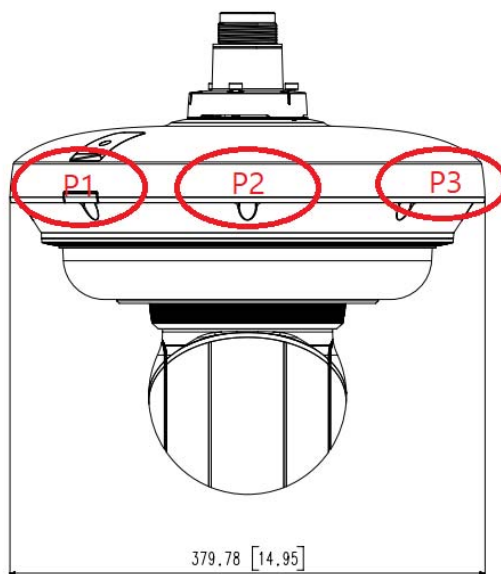
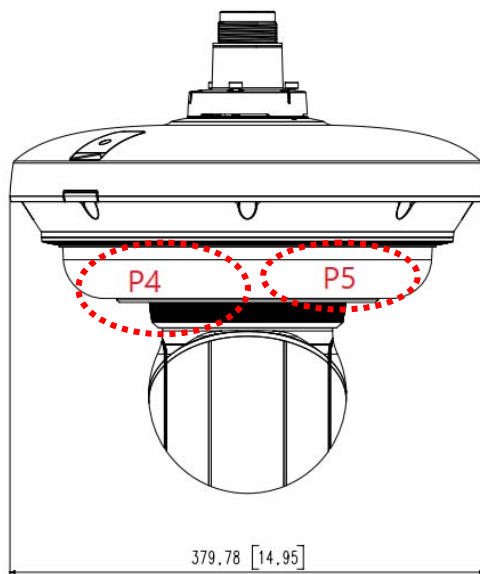
## 2.5. Enclosure Dimensions or Impact point (Unit: mm)

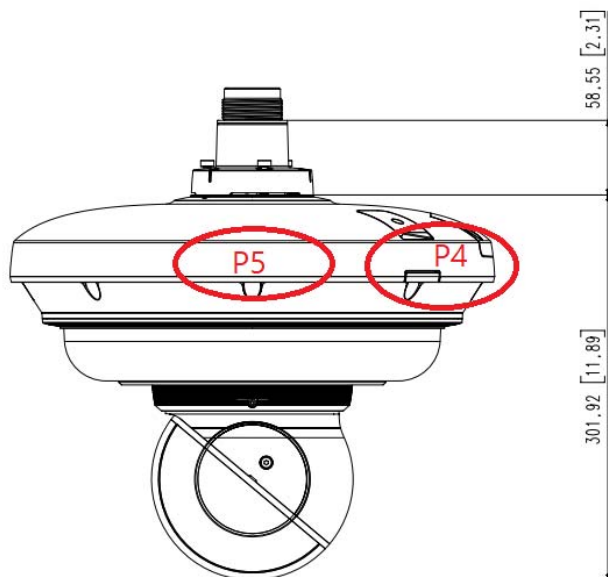












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