# TEST REPORT

**CTK Co., Ltd.**
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REPORT No.:
CTK-K-2026-00420
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**1. Applicant**

- Name : Hanwha Vision Co., Ltd.
- Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488 KOREA
- Date of Receipt : Apr. 09, 2026

**2. Manufacturer**

- Name : Hanwha Vision Co., Ltd.

**3. Use of Report :** For submission to customer

**4. Test sample / Model :** NETWORK INTERCOM / TID-A800

**5. Date(s) of test :** Apr. 29, 2026 ~ Apr. 30, 2026

**6. Test Standard (Method) used :** IEC 60529:1989 +A1:1999+A2:2013

**7. Testing Environment :** Temperature: (25 ± 10) ℃, Humidity: (50 ± 25) % R.H.
Pressure: (96 ± 10) kPa

**8. Test Results :** Refer to the test results

**9. Location of Test :** ☒ Permanent Testing Lab ☐ On Site Testing
(113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This report cannot be reproduced or copied without the written consent of CTK.
This test report is related to the accreditation of KOLAS and KS Q ISO/IEC 17025 by Korea Laboratory Accreditation Scheme.

| Approval | Tested by | Technical Manager |
|---|---|---|
| | Name: HongBeom Jeon (Signature) | Name: HoHyun Lee (Signature) |

The above testing certificate is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

May. 19, 2026

Accredited by KOLAS, Republic of KOREA **CTK Co., Ltd.**



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# 1. Testing laboratory

## 1.1 Testing laboratory information

| | |
|---|---|
| Lab. Name | CTK Co., Ltd. |
| Representative | Young Joseph Seungwon |
| Address | 5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea |
| Tel. | +82-31-339-9970 |
| Fax. | +82-31-624-9501 |
| E-Mail | all.youngin@element.com |
| Website | www.elementkorea.kr |

## 1.2 Testing laboratory accreditation status

| Country | Classification | Accreditation Number | Logo |
|---|---|---|---|
| International | KOLAS | TESTING<br>NO. KT119 | KOLAS |

※ CTK Co., Ltd. is an independent third-party testing laboratory and is not affiliated with the manufacturer (Hanwha Vision Co., Ltd.) or any of its parent or subsidiary companies.

# 2. Sample description and equipment information

## 2.1 Sample description

| Sample Name | Model Name | S/N | Date of Manufacture | Quantity | Comment |
|---|---|---|---|---|---|
| NETWORK INTERCOM | TID-A800 | ZX8X70GL40001CX | Apr, 2026 | 1 EA | - |

## 2.2 Equipment information

| Testing equipment | Model Name | Manufacturer | Manufacturing Number | Next Cal. Date |
|---|---|---|---|---|
| Stop Watch | NONE | Casio | 612Q01R-1 | Jan. 15, 2027 |
| Push Pull Gage | FB30K | Imada | 83805 | Jan. 12, 2027 |
| Test Rod Probe Ø1.0 | TRP-02 | ED&D | S1-J15 | May. 16, 2027 |
| Dust Chamber | NONE | JFM | S5-IP02 | Feb. 20, 2027 |
| Water flow meter with IPX6 | M-25 | LZT | 1903 | Feb. 11, 2027 |
| Hose Nozzle (12.5 mm) | IPX6 | Kingpo | S5-IP07 | - |
| Steel measuring meter | 5.5 m | KOMELON | 225851 | Jan. 13, 2028 |

※ All test equipment used for this testing was calibrated in accordance with the manufacturer's requirements, and the calibration ranges cover the measurement values recorded in this report.

## 2.3 Pre-test sample images

### 2.3.1 Test sample



Top



Bottom



Front



Rear



Left side



Right side

## 2.4 Testing equipment images

### 2.4.1 Test equipment



Push Pull Gage



Test Rod Probe Ø1.0



Dust Chamber




Water flow meter with IPX6



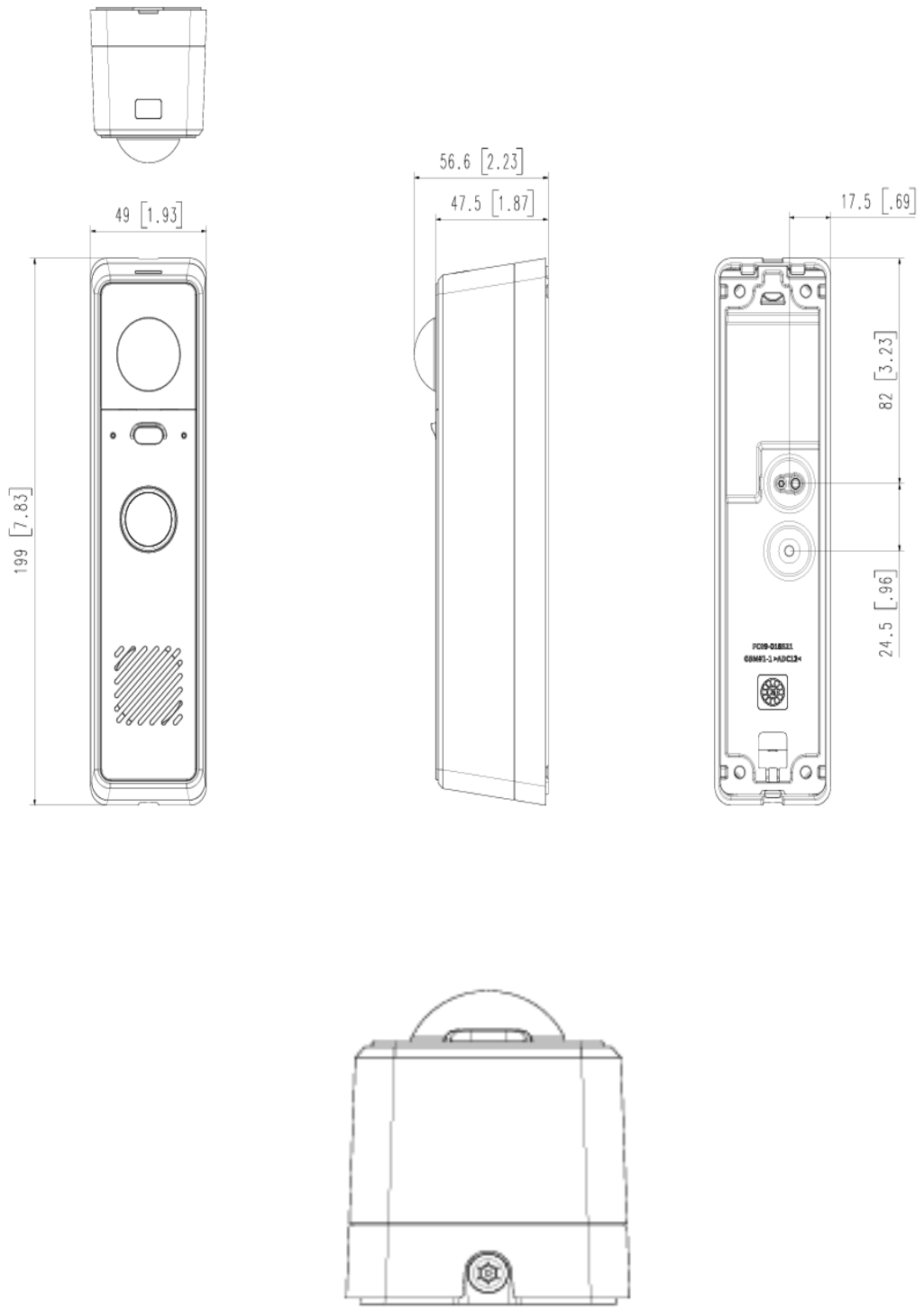
Hose Nozzle (12.5 mm)




Steel measuring meter

## 2.5 Sample appearance

Enclosure dimensions [unit : mm]



# 3. Degrees of protection provided by enclosures (IP code)

## 3.1 Test date and environmental conditions

3.1.1 Test date: Apr. 29, 2026 ~ Apr. 30, 2026

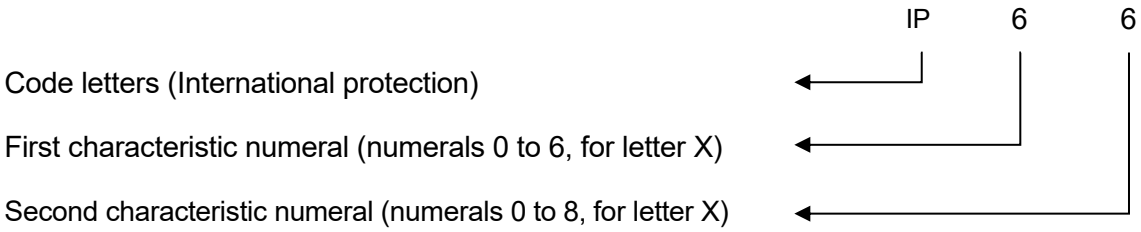
3.1.2 Measured Environmental Conditions

| Item | Temperature (℃) | Humidity (% R.H.) | Pressure (kPa) |
|---|---|---|---|
| Measurement | 24.8 | 45.1 | 89.9 |

## 3.2 Test conditions and methods

3.2.1 Test standard: IEC 60529:1989+A1:1999+A2:2013

3.2.2 Arrangement of the IP code




3.2.2.1 Degree of protection against access to hazardous parts indicated by the first characteristic numeral

| First characteristic numeral | Degree of protection | Application |
|---|---|---|
| 6 | Protected against access to hazardous parts with a wire.<br>The access probe of 1.0 mmØ, shall not penetrate.<br>Test force: 1 N ± 10 % | ☒ |
| NOTE In the case of the first characteristic numerals 3, 4, 5 and 6, protection against access to hazardous parts is satisfied if adequate clearance is kept. The adequate clearance should be specified by the relevant product committee in accordance with 12.3.<br>Due to the simultaneous requirement specified in table 2, the definition “shall not penetrate” is given in table 1. | | |

3.2.2.2 Degree of protection against solid foreign objects indicated by the first characteristic numeral

| First characteristic numeral | Degree of protection | Application |
|---|---|---|
| 6 | In Dust Testing Equipment, the test sample must have no ingress of dust after testing atmospheric pressure present condition for 8 h.<br>(The talcum powder must pass through a calibrated sieve with a 50 μm wire mesh, spaced at 75 μm intervals in a square pattern. Additionally, the bulk density of the talcum powder should be 2 kg/m³)<br>Products in volume .....: **463.17** cm³ → **0.46** L<br>Target intake volume (Products in volume 80) : **37.05** L<br>Suction volume (Max product in volume 60) ..: **27.79** LPH → **0.46** LPM<br>Actual Suction volume .....: **37.05** L<br>Suction pressure (Up to 2 kPa) .....: **1.76** kPa<br>Test time (Up to 8 time) .....: **8 h** | ☒ |
| [1)] The full diameter of the object probe shall not pass through an opening of the enclosure.<br>Due to the simultaneous requirement specified in table 2, the definition “shall not penetrate” is given in table 1. | | |

3.2.2.3 Degree of protection against water indicated by the second characteristic numeral

| Second characteristic numeral | Degrees of protection | Application |
|---|---|---|
| 6 | The product must not be harmed in any direction even strong jet water.<br>Water jet hose nozzle Fig.6, Nozzle 12.5 mm diameter<br>Water flow rate: 100 l/min ± 5 % : **100 LPM**<br>Distance: 2.5 m to 3 m: **3 m**<br>Duration of test: 1 min/m² at least 3 min: **3 min** | ☒ |

## 3.3 Test Setup and During-test sample images

### 3.3.1 Evidence of test setting



Probe test(1)



Probe test(2)



Probe test(3)



Probe test(4)



Probe test(5)



Probe test(6)

### 3.3.2 Evidence of test setting



Probe test(7)



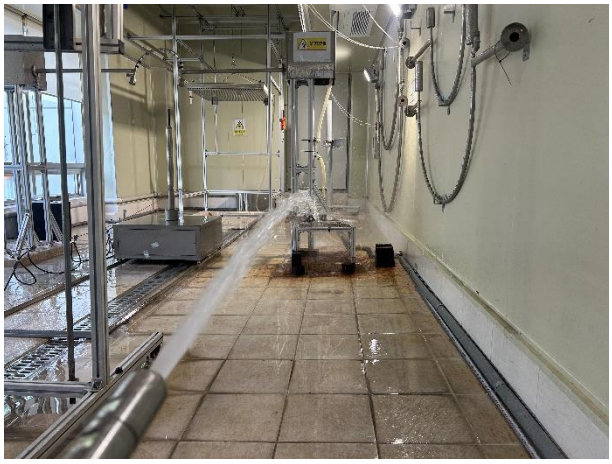
Probe test(8)



Probe test(9)



Dust test



Waterproof test(1)



Waterproof test(2)

## 3.4 Test result

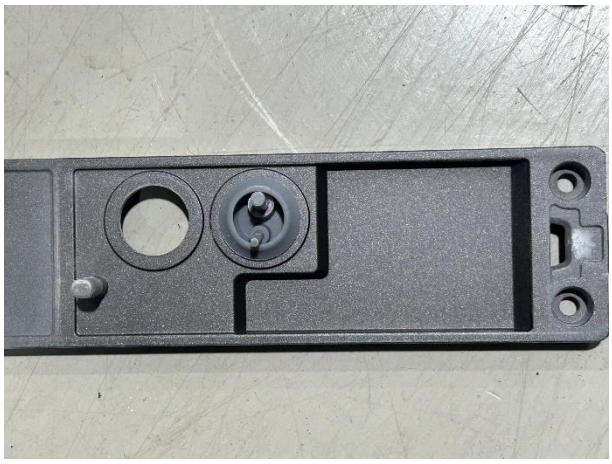
### 3.4.1 Test result table

| IP code | Evaluation Criteria | Test Results | Remark |
|---|---|---|---|
| IP 6X | No ingress of Probe | Normal | - |
| | No ingress of dust | Normal | |
| IP X6 | No ingress of water | Normal | |

**※ Refer to the sample photos after the completion of testing in section 3.5.**

## 3.5 Post-test sample images

### 3.5.1 Sample internal images after test [The first characteristic numeral test]



post dust test image(1)



post dust test image(2)



post dust test image(3)

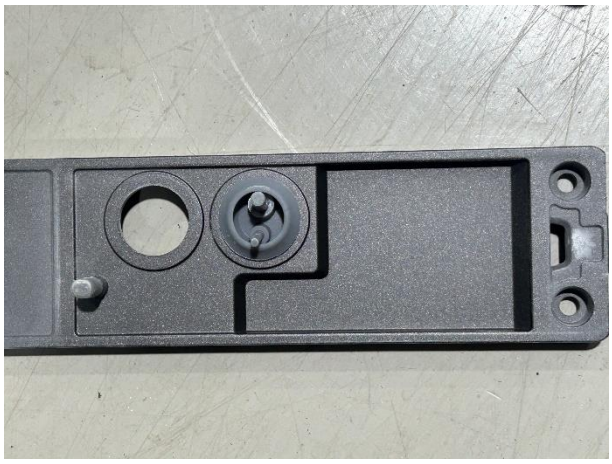


post dust test image(4)



post dust test image(5)

### 3.5.2 Sample internal images after test [The second characteristic numeral test]



post waterproof test image(1)



post waterproof test image(2)



post waterproof test image(3)



post waterproof test image(4)



post waterproof test image(5)

- End -