TEST REPORT

CTK Co., Ltd.
5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
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REPORT No.: CTK-2025-03251

1.	**Applicant**	
	◦ Name :	Hanwha Vision Co., Ltd.
	◦ Address :	6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488 KOREA
	◦ Date of Receipt :	Oct. 24, 2025
2.	**Manufacturer**	
	◦ Name :	Hanwha Vision Co., Ltd.
3.	**Use of Report :**	For submission to customer
4.	**Test sample / Model :**	NETWORK CAMERA / XNV-A9084RS
5.	**Date(s) of test :**	Nov. 24, 2025
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 (5 Dongbu-ro 221beon-gil, 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.

Approval	Tested by Name: HyungUk Jeon (Signature)	Technical Manager Name: HoHyun Lee (Signature)

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

Nov. 27, 2025

CTK Co., Ltd.

Table of Contents

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
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E-Mail	all.youngin@element.com
Website	www.elementkorea.kr

1.2 Testing laboratory accreditation status

Country	Classification	Accreditation Number	Logo
International	KOLAS	TESTING NO. KT119	

2. Product description and equipment information

2.1 Product description

Product Name	Model Name	Quantity	Comment
NETWORK CAMERA	XNV-A9084RS	–	–

2.2 Model description

Basic Model .....:	XNV-A9084RS
Series model .....:	XNV-A8084RS
Model differences .....:	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.)

2.3 Equipment information

Testing equipment	Model Name	Manufacturer	Manufacturing Number	Next Cal. Date
Stop Watch	NONE	Casio	612Q01R-1	2027-01-15
Push Pull Gage	FB30K	Imada	83805	2026-01-16
Test Rod Probe Ø1.0	TRP-02	ED&D	S1-J15	2027-05-16
Immersion tank	-	-	-	-
Dust Chamber	NONE	JFM	S5-IP02	2026-02-14
Steel measuring meter	5.5 m	KOMELON	225851	2026-01-16

2.4 Pre-test product images

2.4.1 Test sample #1

Top

Bottom

Front

Rear

Left side

Right side

2.5 Testing equipment images

2.5.1 Test equipment (1)

Stop Watch

Push Pull Gage

Test Rod Probe Ø1.0

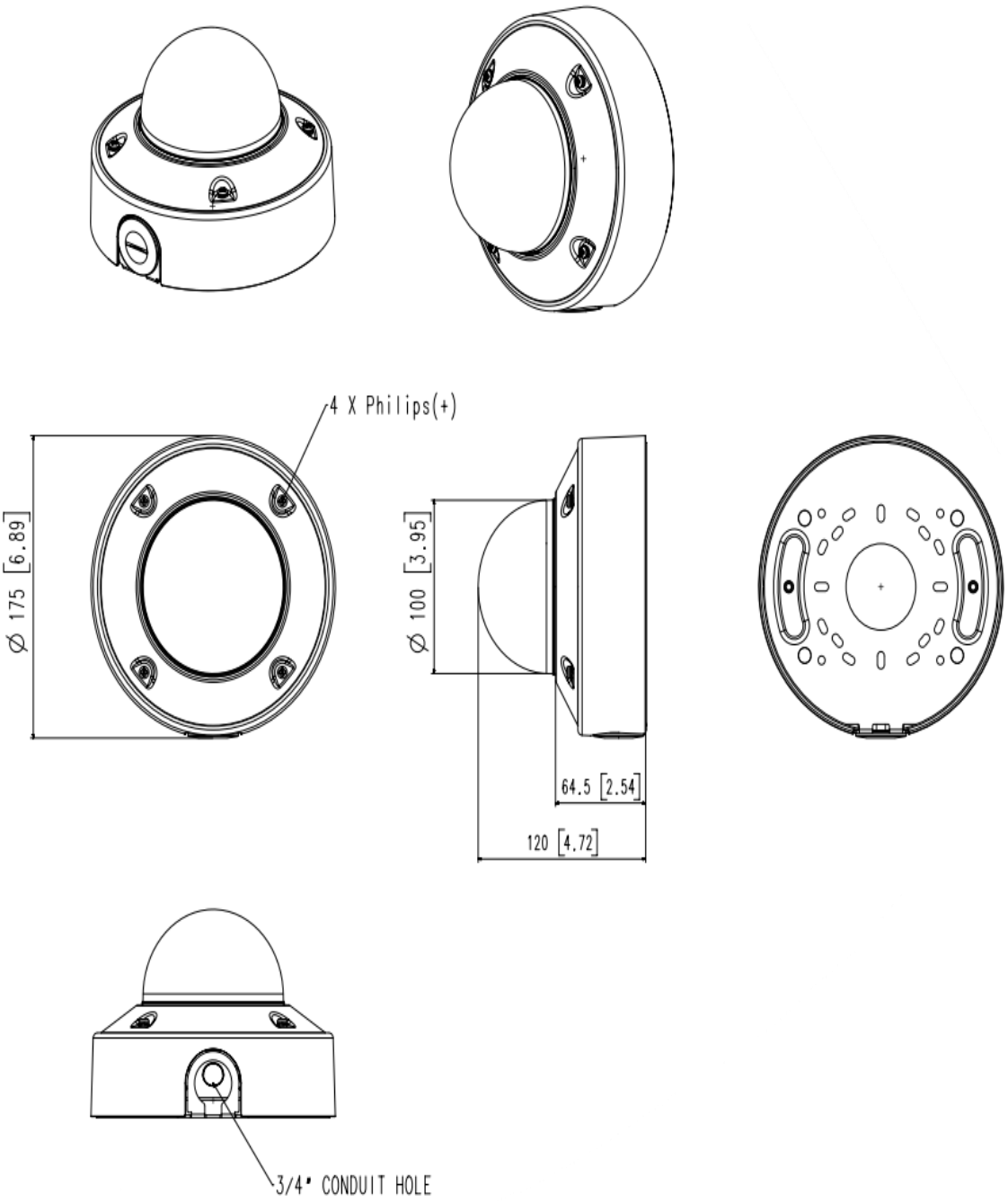
Immersion tank

Dust Chamber

Steel measuring meter

2.6 Product 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: Nov. 24, 2025

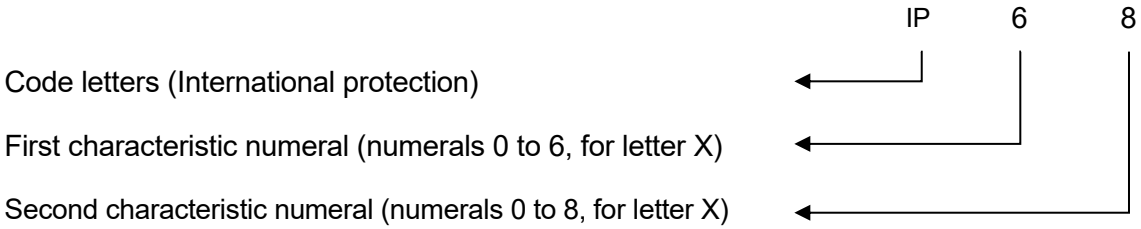
3.1.2 Measured Environmental Conditions

Item	Temperature (℃)	Humidity (% R.H.)	Pressure (kPa)
Measurement	19.7	50.1	102.2

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. The access probe of 1.0 mmØ, shall not penetrate. 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. 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. (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) Products in volume .....: **2 884.875** cm³ → **2.884 875** L Target intake volume (Products in volume 80) : **230.79** L Suction volume (Max product in volume 60) ..: **173.092** LPH → **2.884** LPM Actual Suction volume .....: **2.882** L Suction pressure (Up to 2 kPa) .....: **2** kPa Test time (Up to 8 time) .....: **8** hr	☒
[1] The full diameter of the object probe shall not pass through an opening of the enclosure. 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
8	Unless there is a relevant product standard, the test conditions are subject to agreement between manufacturer and user, but they shall be more severe than those prescribed in IP X7 and they shall take account of the condition that the enclosure will be continuously immersed in actual use. the lowest point of enclosures located below the surface of the water: **1 m** Duration of test: **2 h**	☒

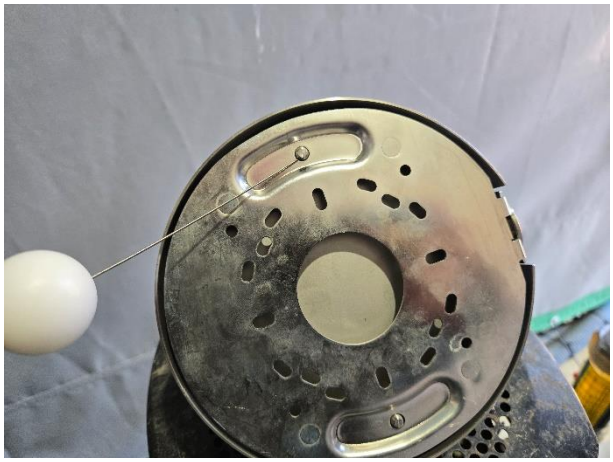
3.3 Testing images

3.3.1 Evidence of test setting (1)

Probe test photo_1

Probe test photo_2

Probe test photo_3



Probe test photo_4

Dust test

Water test

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 X8	No ingress of water	Normal	

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

3.5 Post-test product images

3.5.1 Product internal images after test [The first characteristic numeral test]

3.5.2 Product internal images after test [The second characteristic numeral test]

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