

TEST REPORT

**CTK Co., Ltd.**

5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2024-03091
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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 : SEP 26, 2024

2. Manufacturer

- Name : Hanwha Vision Co., Ltd

3. Use of Report :

For customer submission

4. Test sample / Model :

NETWORK CAMERA / TNV-C8014RM

5. Date(s) of test :

Nov 04, 2024

6. Test Standard (Method) used :

KS C IEC 62262: 2005

7. Testing Environment :

Temperature: (25 ±10) °C, Humidity: (50 ±25) %R.H.
Pressure: (96 ±10) kPa

8. Test Results :

Clause 4. 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

Affirmation	Tested by	Technical Manager
	HyungUk Jeon (Signature)	HoHyun Lee (Signature)

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


Nov 15, 2024

CTK Co., Ltd.



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1. Testing laboratory

1.1 Testing laboratory information

Lab. Name	CTK Co., Ltd.
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	ctk@e-ctk.com
Website	e-ctk.com

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	TNV-C8014RM	1 EA	-

2.2. Model description

Basic Model	TNV-C8014RM
Series model	TNV-C8034RM
Model differences	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.), differences in fixed lens inside the product.

2.3. Testing equipment information

Testing equipment	Model Name	Manufacturer	Manufacturing Number	Calibration Date
Vertical Hammer Tester	Vertical Hammer	Kingpo	0190605A01002	
Vertical Hammer	20J	Kingpo	TX028-3	
Steel measuring meter	5.5 m	KOMELON	225851	2025.03.27



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2.4. Product Photographs



Top



Bottom



Front



Rear



Left side



Right side



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2.5. Testing equipment images



Vertical Hammer



Vertical Hammer Tester



Steel measuring meter

3. Test conditions and methods

3.1. Test duration, Environmental conditions, and Location

3.1.1. Test date : Nov 04, 2024

3.1.2. Measured environmental conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	25.3	40.2	101.3

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)				



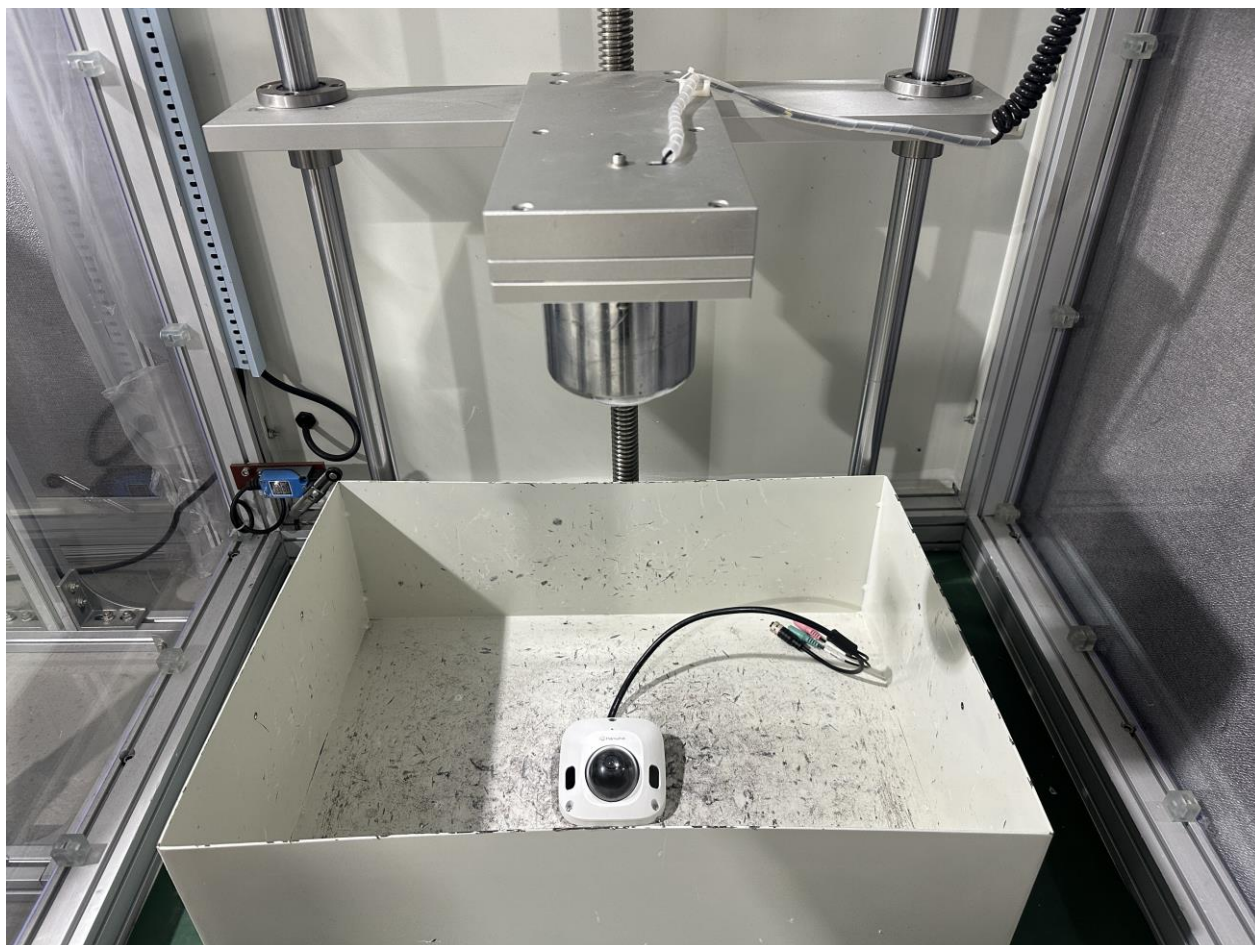
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3.3. Testing images

3.3.1. Test environment setup image



Test environment setup image_1

4. Test result

4.1. Test result table

Evaluation Criteria		Test Results
Visual Inspection	Pre-test	No problem with the product
	Post-test	Some scratches were generated on the outside of the product.

※ Refer to the sample images after the test is completed. (Clause 4.2, 4.3)



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4.2. Post-test product images and hit area images

4.2.1. Check the hit area during the test



Check the hit area the test_1



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4.2.2. Post-test product images



Top



Bottom



Front



Back



Left side



Right side



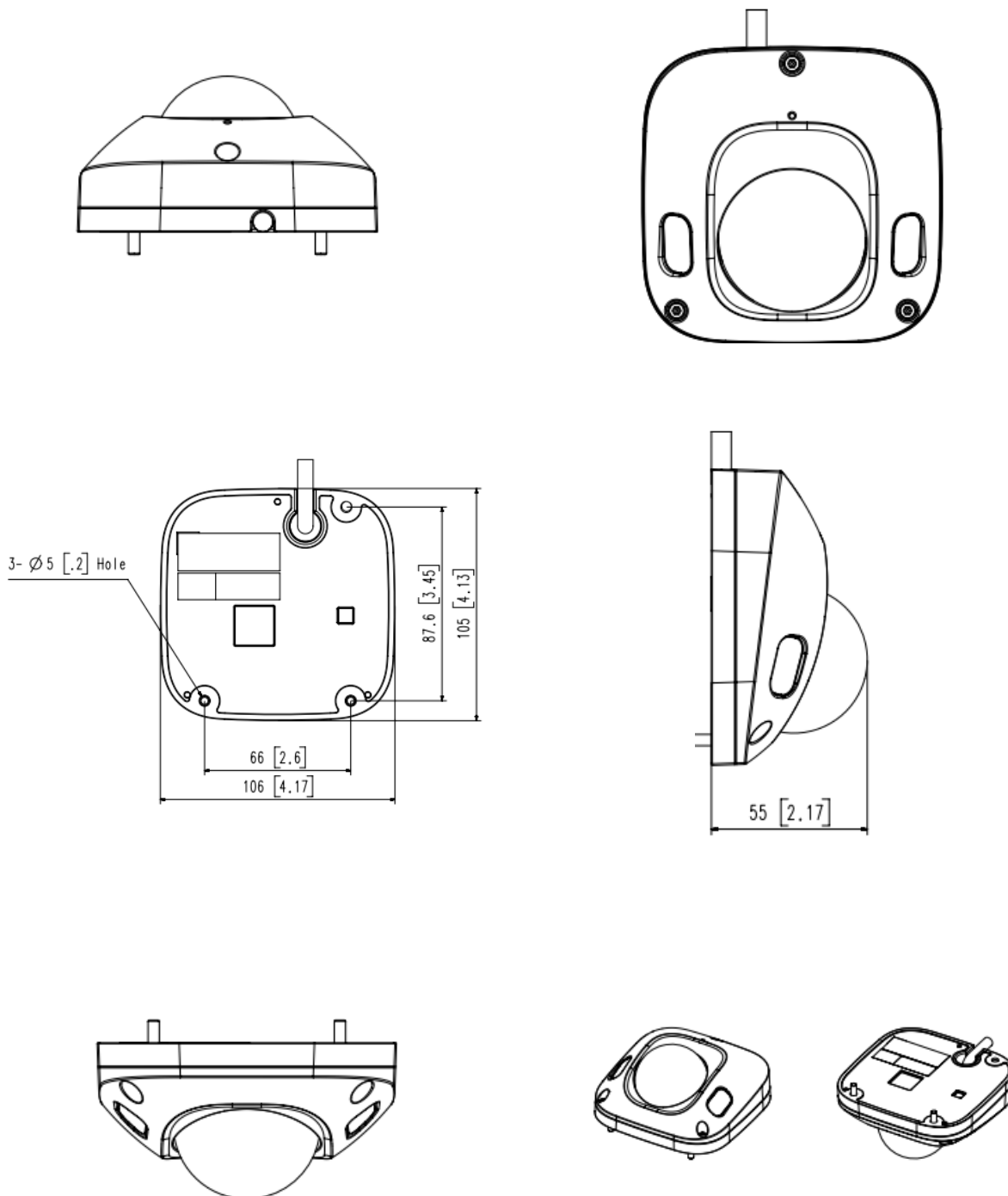
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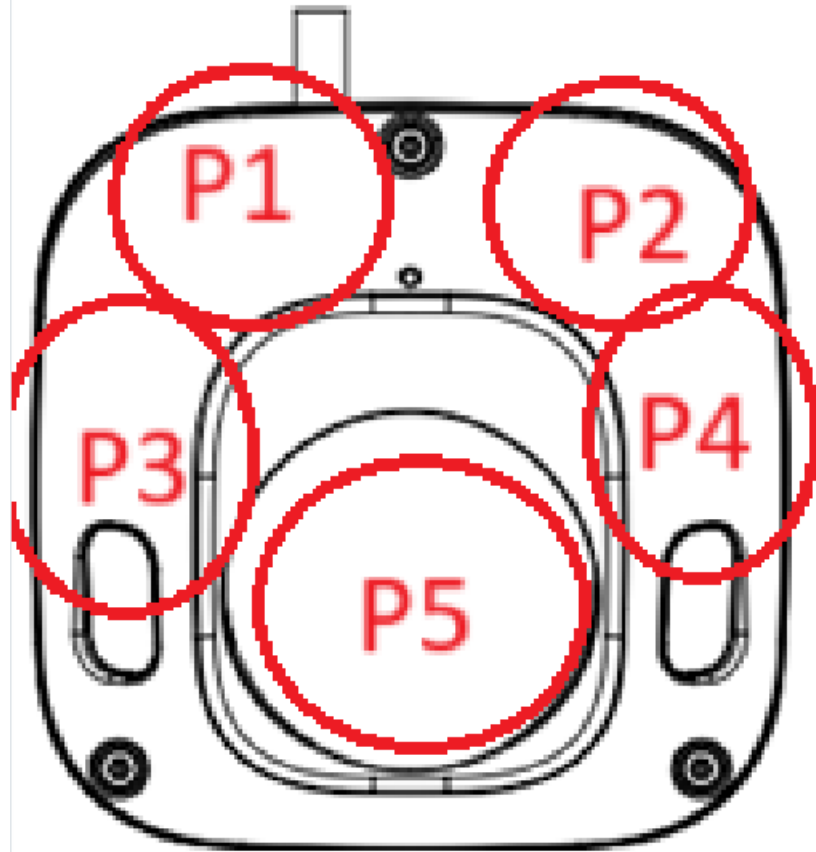
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4.3. Enclosure Dimensions or Impact point (Unit: mm)

4.3.1. Enclosure Dimensions



4.3.2. Impact point



Impact point image 1

-End-