

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-2025-01619
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1. Applicant

- Name : Hanwha Vision Co., Ltd
- Address : 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13488 Republic of Korea
- Date of Receipt : Apr. 16, 2025

2. Manufacturer

- Name : Hanwha Vision Co., Ltd

3. Use of Report :

For submission to customer

4. Test sample / Model :

Network Thermal Camera / TNO-C3080T

5. Date(s) of test :

May. 21, 2025 ~ May. 29, 2025

6. Test Standard (Method) used :

IEC 62262:2002+AMD1:2021

7. Testing Environment :

Temperature: (25 ±10) °C, 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, 449-100,
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	Technical Manager
	Name: KyuNam Park (Signature)	Name: HoHyun Lee (Signature)

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

Jun. 23, 2025

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 NO. KT119	

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2. Product description and equipment information

2.1 Product description

Product Name	Model Name	Quantity	Comment
Network Thermal Camera	TNO-C3080T	1 EA	-

2.2 Model description

Basic Model	TNO-C3080T
Series model	TNO-C3082T, TNO-C3060T, TNO-C3062T
Model differences	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.), differences in fixed lens and SW inside the product.

2.3 Equipment information

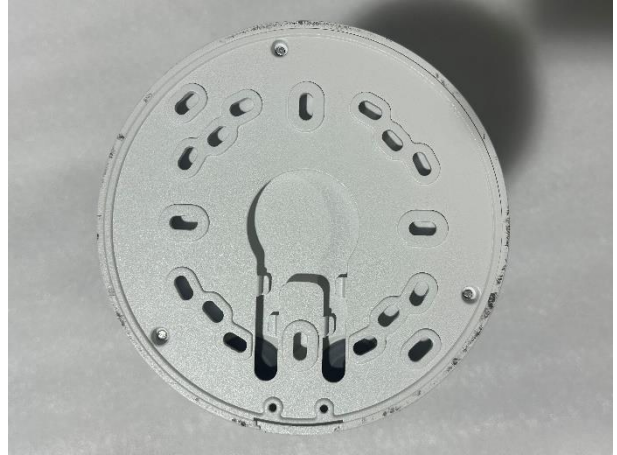
Testing equipment	Model Name	Manufacturer	Manufacturing Number	Next Cal. Date
Vertical Hammer Tester	Vertical Hammer	Kingpo	0190605A01002	-
Vertical Hammer	20J	-	-	-
Steel measuring meter	5.5 m	KOMELON	225851	Jan. 16, 2026

2.4 Pre-test product images

2.4.1 Test sample



Top



Bottom



Front



Rear



Left side



Right side



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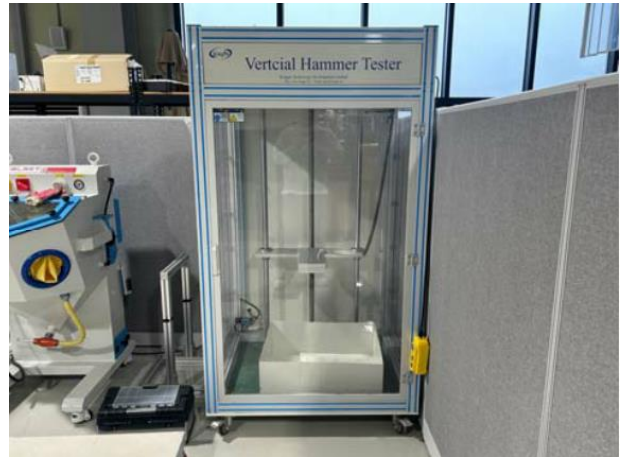
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2.5 Testing equipment images

2.5.1 Test equipment



Vertical Hammer



Vertical Hammer Tester



Steel measuring meter

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

3.1 Test date and environmental conditions

3.1.1 Test date: May. 21, 2025 ~ May. 29, 2025

3.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	23.7	46.3	96.4

3.2 Test condition

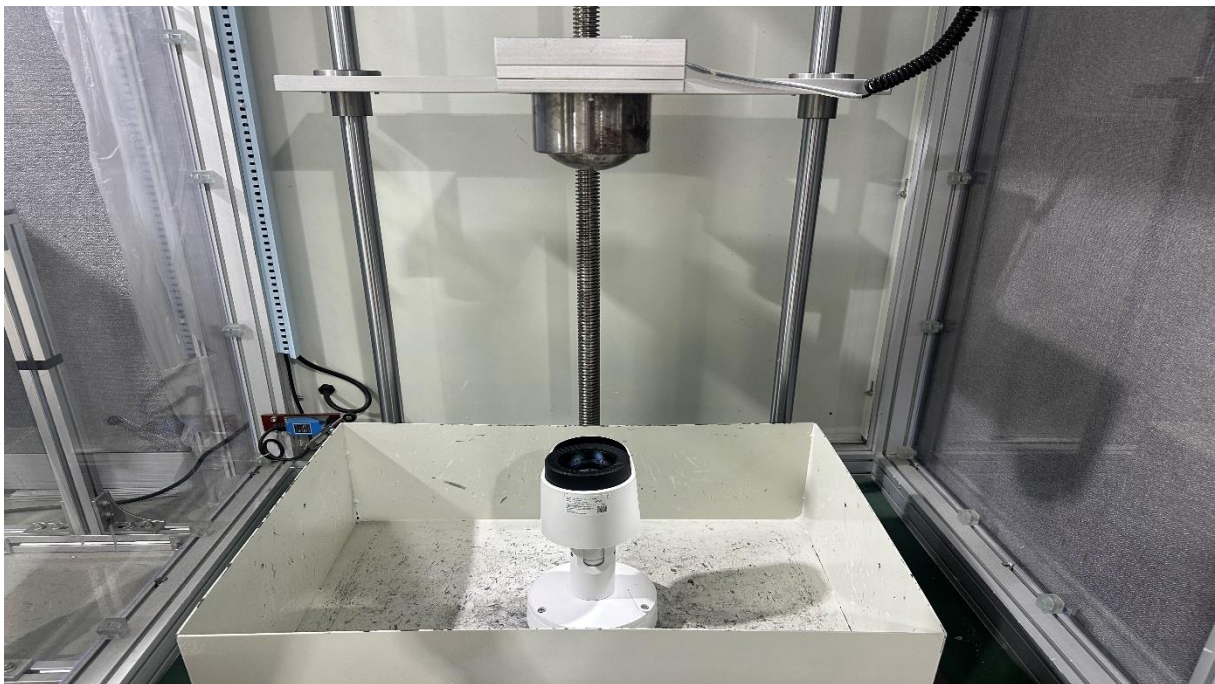
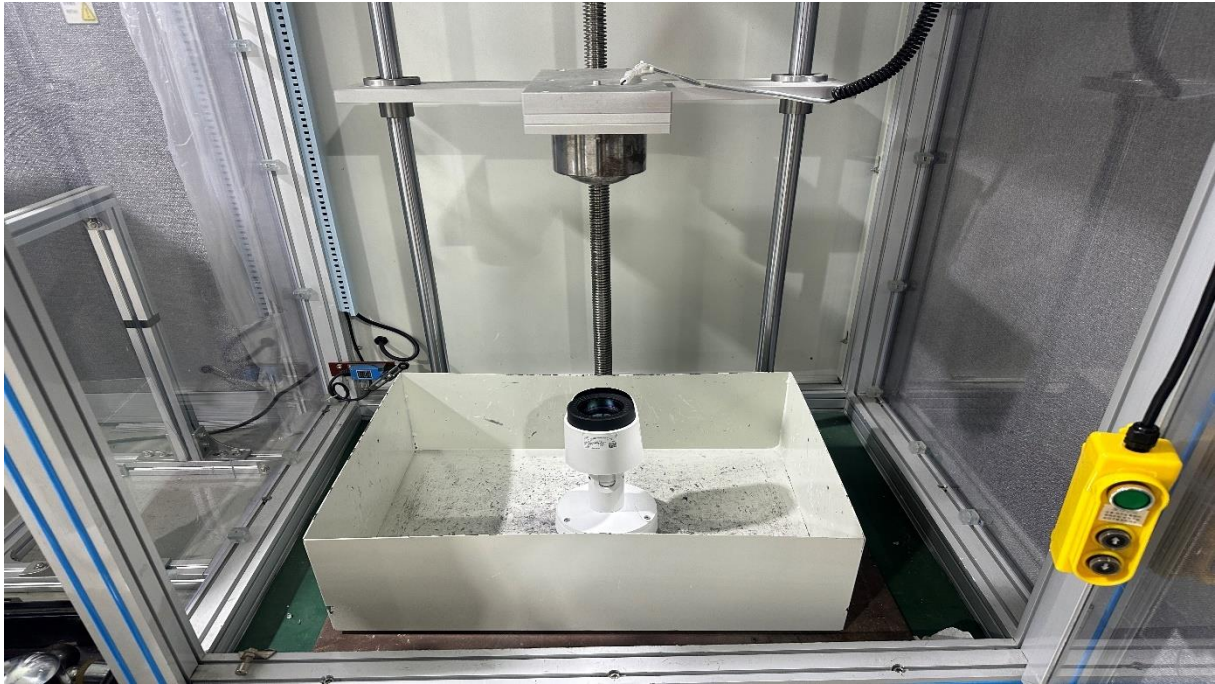
3.2.1 Test standard: IEC 62262:2002+AMD1:2021

IK code	Impact Energy (J)	Equivalent mass (kg)	Drop height (mm ± 1%)	Application
00	Non-protected	-	-	☐
01	0.14	0.25	56	☐
02	0.20	0.25	80	☐
03	0.35	0.25	140	☐
04	0.50	0.25	200	☐
05	0.70	0.25	280	☐
06	1.00	0.25	400	☐
07	2.00	0.50	400	☐
08	5.00	1.70	300	☐
09	10.00	5.00	200	☐
10	20.00	5.00	400	☒
11	50.00	10.00	500	☐

Impact times: five times for each of the exposed surface. (Do not impact more than 3 times in the same spot)

3.3 Testing images

3.3.1 Evidence of test setting



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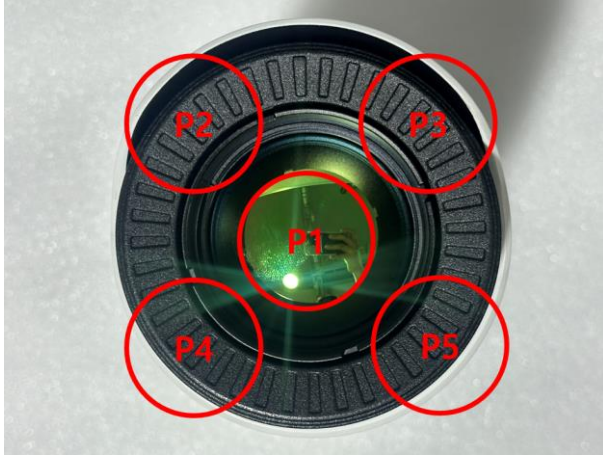
3.4 Test result**3.4.1 Test result table**

Evaluation Criteria	Test Results	Remark
Visual Inspection	Some scratches were generated on the outside of the product.	-

※ Refer to the product photos after the completion of testing in section 3.5.2

3.5 Post-test product images and hit area images

3.5.1 Check the hit area during the test (1)



Check the hit area the test_1



Check the hit area the test_2



Check the hit area the test_3



Check the hit area the test_4



Check the hit area the test_5

3.5.2 Check the hit area during the test (2)



Check the hit area the test_6



Check the hit area the test_7



Check the hit area the test_8



Check the hit area the test_9

3.5.3 Post-test product images



Top



Bottom



Front



Back



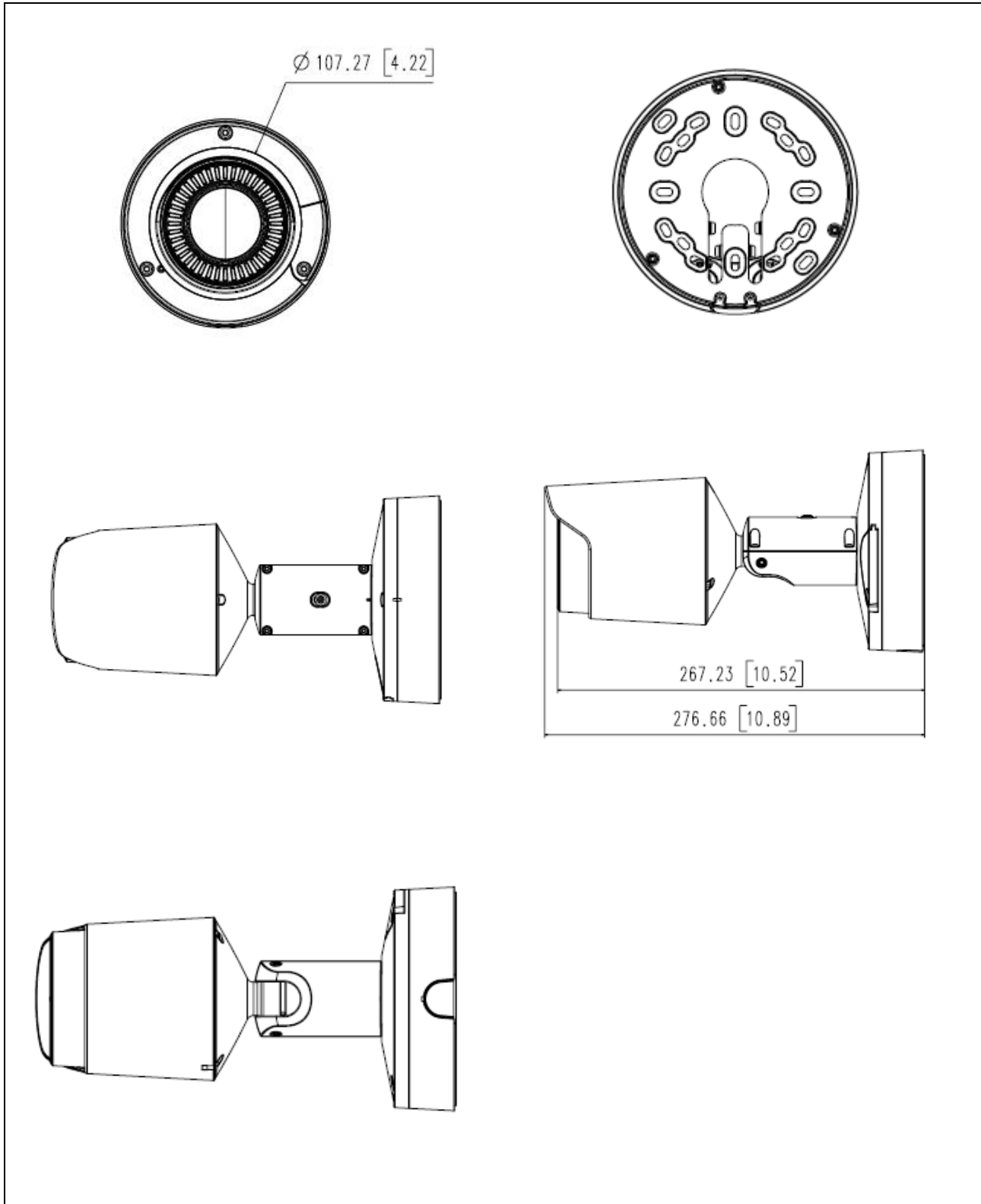
Left side



Right side

3.6 Enclosure Dimensions or Impact point

3.6.1 Enclosure Dimensions (Unit: mm)



- End -