

TEST REPORT



CTK Co., Ltd.

5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea
Tel: 1551-9871
Fax: +82-31-624-9501

REPORT No.:
CTK-2026-01569
Page (1) / (12) pages

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 : May. 29, 2026

2. Manufacturer

- Name : INDUS VISION Co., Ltd.

3. Use of Report :

For submission to customer

4. Test sample / Model :

Security Camera / TNO-C9083ER

5. Date(s) of test :

Jun. 10, 2026

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
(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.

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

Remark. This report is not related to ISO/IEC 17025, KOLAS accreditation and relevant regulation.

Jun. 18, 2026

CTK Co., Ltd.



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REPORT No.:
CTK-2026-01569
Page (2) / (12) pages

Table of Contents

1. Testing laboratory	3
1.1 Testing laboratory information	3
1.2 Testing laboratory accreditation status	3
2. Sample description and equipment information	4
2.1 Sample description	4
2.2 Model description	4
2.3 Equipment information	4
2.4 Pre-test sample images	5
2.5 Testing equipment images	6
2.6 Sample appearance	7
3. Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	8
3.1 Test date and environmental conditions	8
3.2 Test condition	8
3.3 Test Setup and During-test sample images	9
3.4 Test result	10
3.5 Hit area	11
3.6 Post-test sample images	12

	CTK Co., Ltd. 5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea Tel: 1551-9871 Fax: +82-31-624-9501	REPORT No.: CTK-2026-01569 Page (3) / (12) pages	
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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.	1551-9871
Fax.	+82-31-624-9501
E-Mail	all.youngjin@element.com
Website	www.elementkorea.kr

1.2 Testing laboratory accreditation status

Country	Classification	Accreditation Number	Logo
International	KOLAS	TESTING NO. KT119	

※ 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.

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REPORT No.:
CTK-2026-01569
Page (4) / (12) pages

2. Sample description and equipment information

2.1 Sample description

Sample Name	Model Name	S/N	Date of Manufacture	Quantity	Comment
Security Camera	TNO-C9083ER	PV2026052800007	May. 2026	1 EA	-

2.2 Model description

Basic Model	TNO-C9083ER
Series model	TNO-C8083ER
Model differences	Differences between the basic model and the lens and image sensor

2.3 Equipment information

Testing equipment	Model Name	Manufacturer	Manufacturing Number	Next Cal. Date
Vertical Hammer Tester	Vertical Hammer	Kingpo	0190605A01002	-
Vertical Hammer	5 kg	Kingpo	TX-029-20J	Jul. 08, 2027
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.



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REPORT No.:
CTK-2026-01569
Page (5) / (12) pages

2.4 Pre-test sample images

2.4.1 Test sample



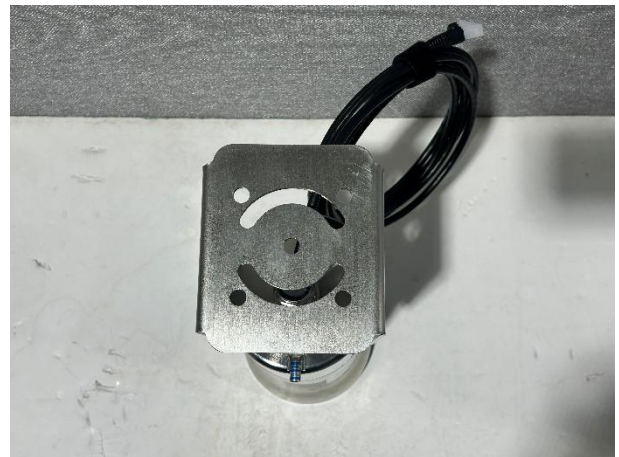
Top



Bottom



Front



Rear



Left side



Right side



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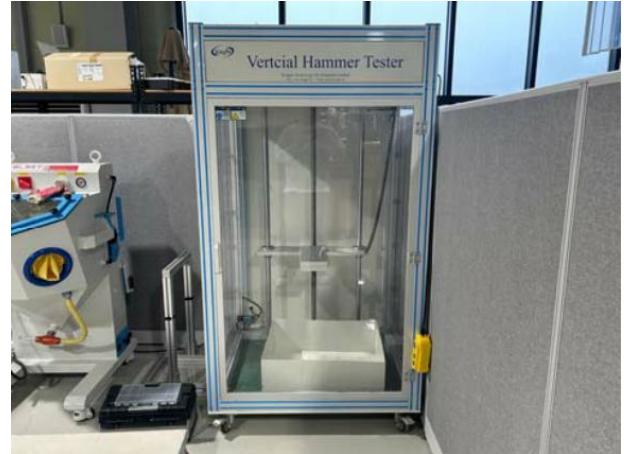
REPORT No.:
CTK-2026-01569
Page (6) / (12) pages

2.5 Testing equipment images

2.5.1 Test equipment



Vertical Hammer



Vertical Hammer Tester



Steel measuring meter



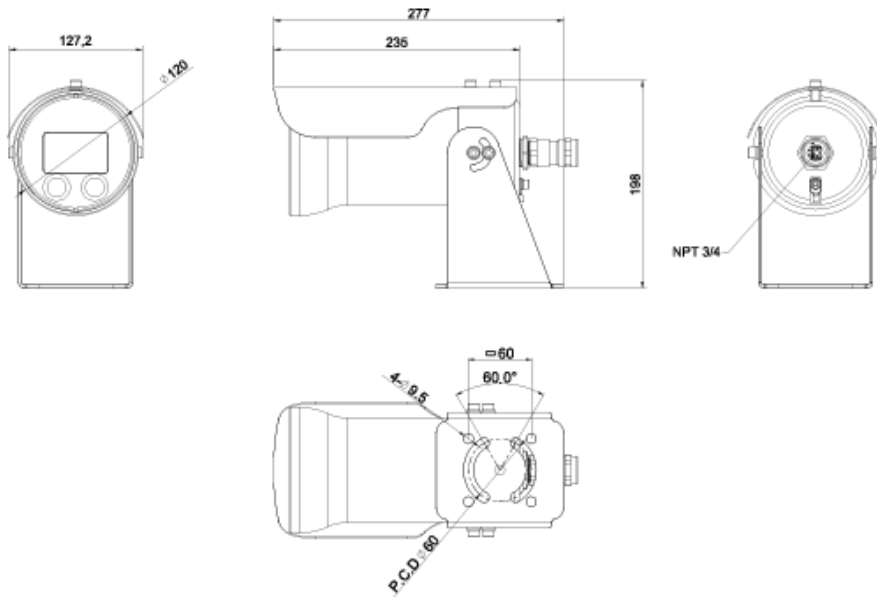
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CTK-2026-01569
Page (7) / (12) pages

2.6 Sample appearance

Enclosure dimensions [unit : mm]



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CTK-2026-01569
Page (8) / (12) pages

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: Jun. 10, 2026

3.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	24.9	48.6	102.1

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



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CTK-2026-01569
Page (9) / (12) pages

3.3 Test Setup and During-test sample images

3.3.1 Evidence of test setting



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CTK-2026-01569
Page (10) / (12) pages

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 Sample.	Excluding frontal blows

※ Refer to the sample images after the completion of testing in section 3.6.



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REPORT No.:
CTK-2026-01569
Page (11) / (12) pages

3.5 Hit area

3.5.1 Hit area



Check the hit area the test_1



Check the hit area the test_2

3.6 Post-test sample images

3.6.1 Test sample



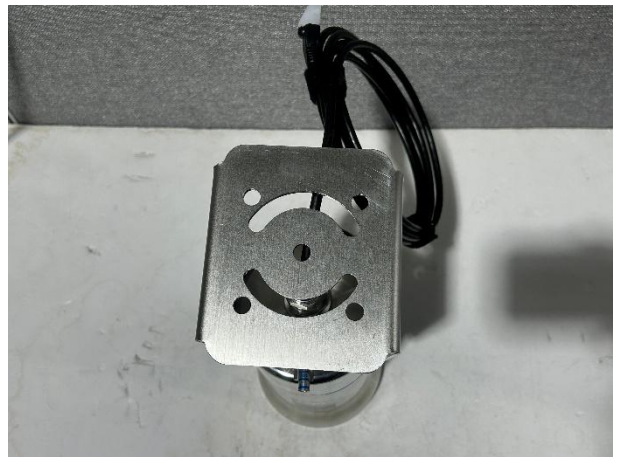
Top



Bottom



Front



Rear



Left side



Right side

- End -