TEST REPORT

CTK Co., Ltd.
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Gyeonggi-do, Republic of Korea
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REPORT No.:
CTK-2026-02045

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 :	Jun. 26, 2026
2.	**Manufacturer**	
	◦ Name :	Hanwha Vision Co., Ltd
3.	**Use of Report :**	For submission to customer
4.	**Test sample / Model :**	Network Camera / TNO-A9084ER
5.	**Date(s) of test :**	Jun. 30, 2026
6.	**Test Standard (Method) used :**	IEC 62262:2002+AMD1:2021
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.
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Approval	Tested by Name: HongBeom Jeon (Signature)	Technical Manager Name: HoHyun Lee (Signature)

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

Jul. 24, 2026

CTK Co., Ltd.

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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 Equipment information ... 4

2.3 Pre-test sample images ... 5

2.4 Testing equipment images ... 6

2.5 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

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.youngin@element.com
Website	www.elementkorea.kr

1.2 Testing laboratory accreditation status

Country	Classification	Accreditation Number	Logo
International	KOLAS	TESTING NO. KT119	KOREA LABORATORY ACCREDITATION SCHEME 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.

2. Sample description and equipment information

2.1 Sample description

Sample Name	Model Name	S/N	Date of Manufacture	Quantity	Comment
Network Camera	TNO-A9084ER	ZXD770GL60000WY	Jun. 2026	1 EA	-

2.2 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.

2.3 Pre-test sample images

2.3.1 Test sample



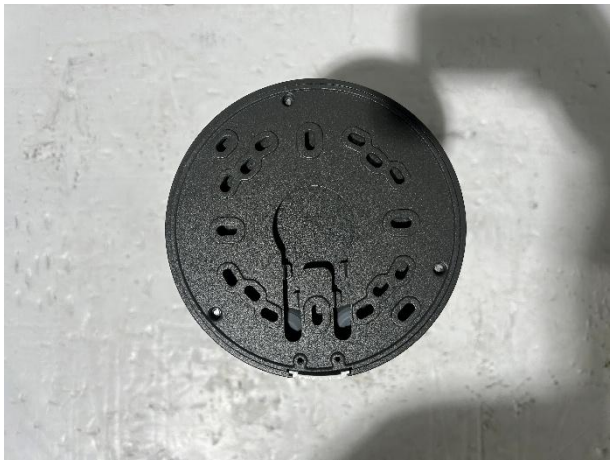
Top



Bottom



Front



Rear



Left side



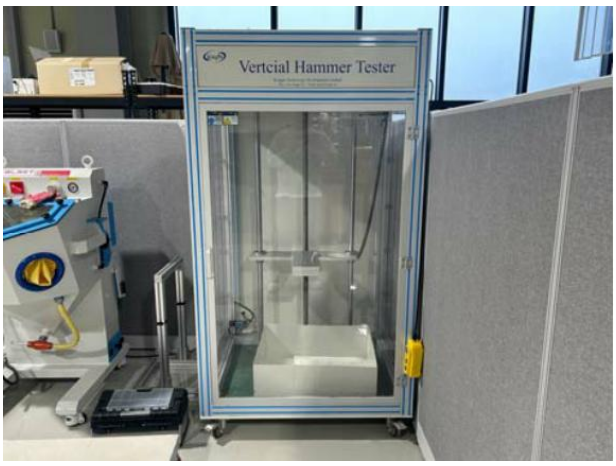
Right side

2.4 Testing equipment images

2.4.1 Test equipment



Vertical Hammer



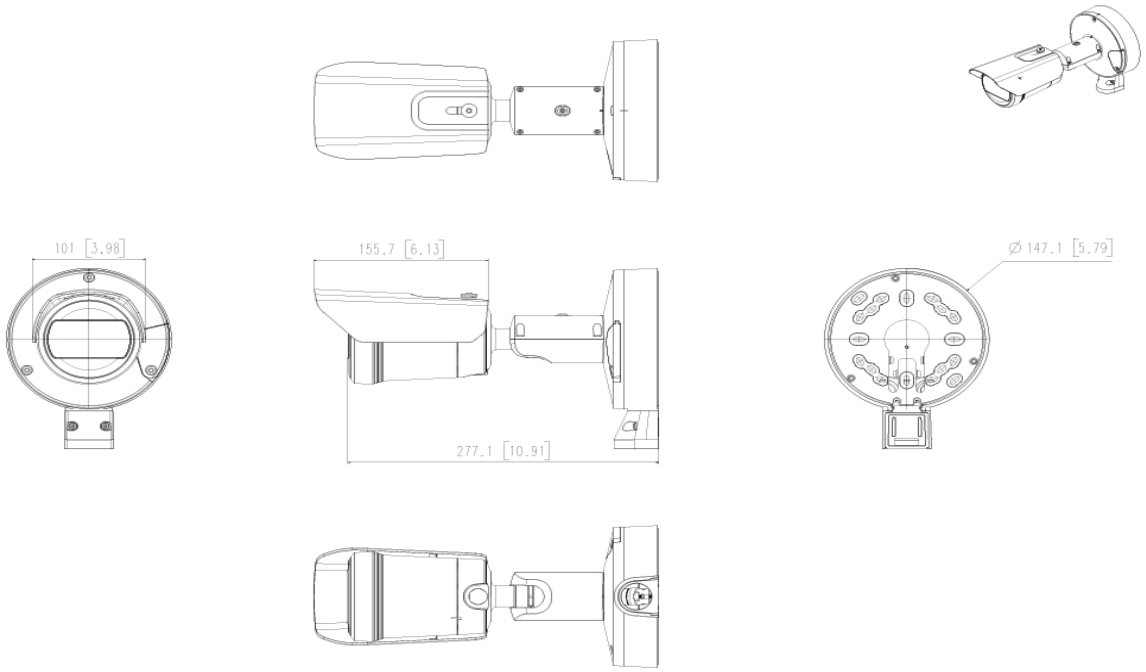
Vertical Hammer Tester



Steel measuring meter

2.5 Sample appearance

Enclosure dimensions [unit : mm]



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. 30, 2026

3.1.2 Measured Environmental Conditions

Item	Temperature (℃)	Humidity (% R.H.)	Pressure (kPa)
Measurement	25.2	49.6	103.2

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)				

3.3 Test Setup and During-test sample images

3.3.1 Evidence of test setting



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.	-

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

3.5 Hit area

3.5.1 Hit area



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



Check the hit area the test_6

3.6 Post-test sample images

3.6.1 Test sample



Top



Bottom



Front



Rear



Left side



Right side

- End -