

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

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CTK-2025-02222
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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 : May. 17, 2021

2. Manufacturer

- Name : Hanwha Vision Co., Ltd

3. Use of Report :

For submission to customer

4. Test sample / Model :

NETWORK CAMERA / PNM-9031RV

5. Date(s) of test :

Jun 03, 2021

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 Name: HyungUk Jeon (Signature)	Technical Manager Name: HoHyun Lee (Signature)
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Remark. This report is not related to KOLAS accreditation and relevant regulation.

Aug. 22, 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 CAMERA	PNM-9031RV	1 EA	—

2.1 Model description

Basic Model	PNM-9031RV
Series model	PNM-C9022RV, PNM-A13022RV
Model differences	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.), differences in fixed lens inside the product.

2.2 Pre-test product images

2.2.1 Test sample



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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: Jun 03, 2021

3.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	23.7	49.5	99.2

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 $\pm$ 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)



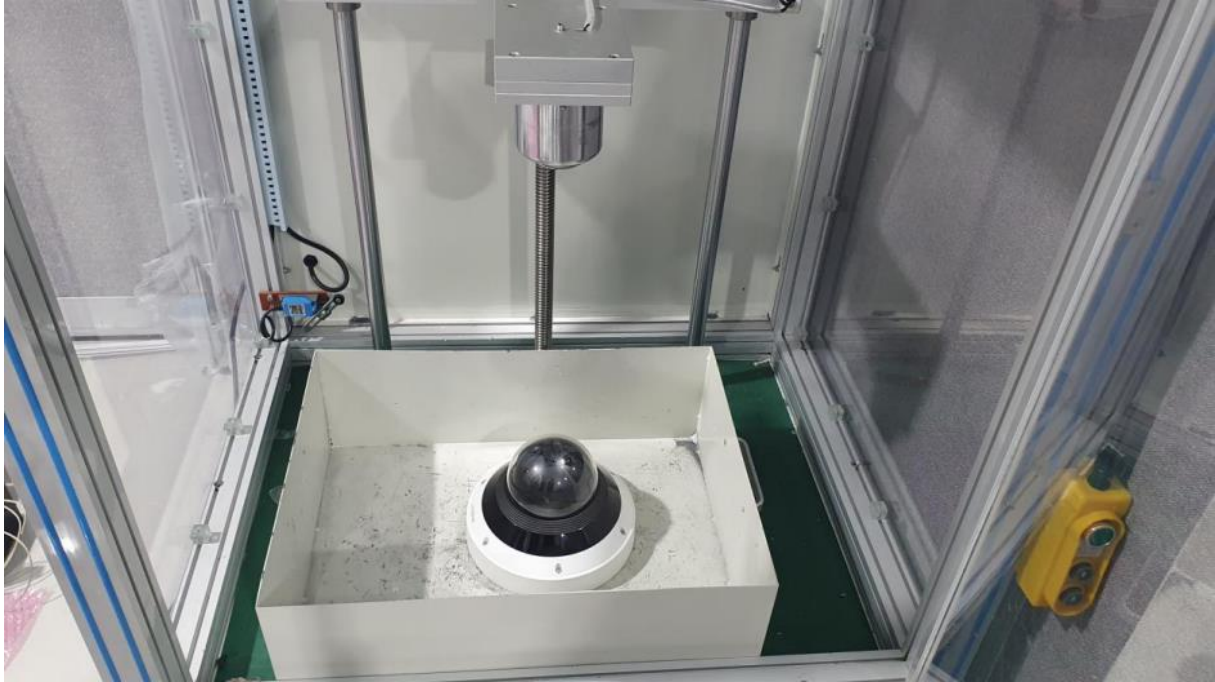
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3.3 Testing images

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

3.5.2 Post-test product images





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3.5.3 Post-test product images





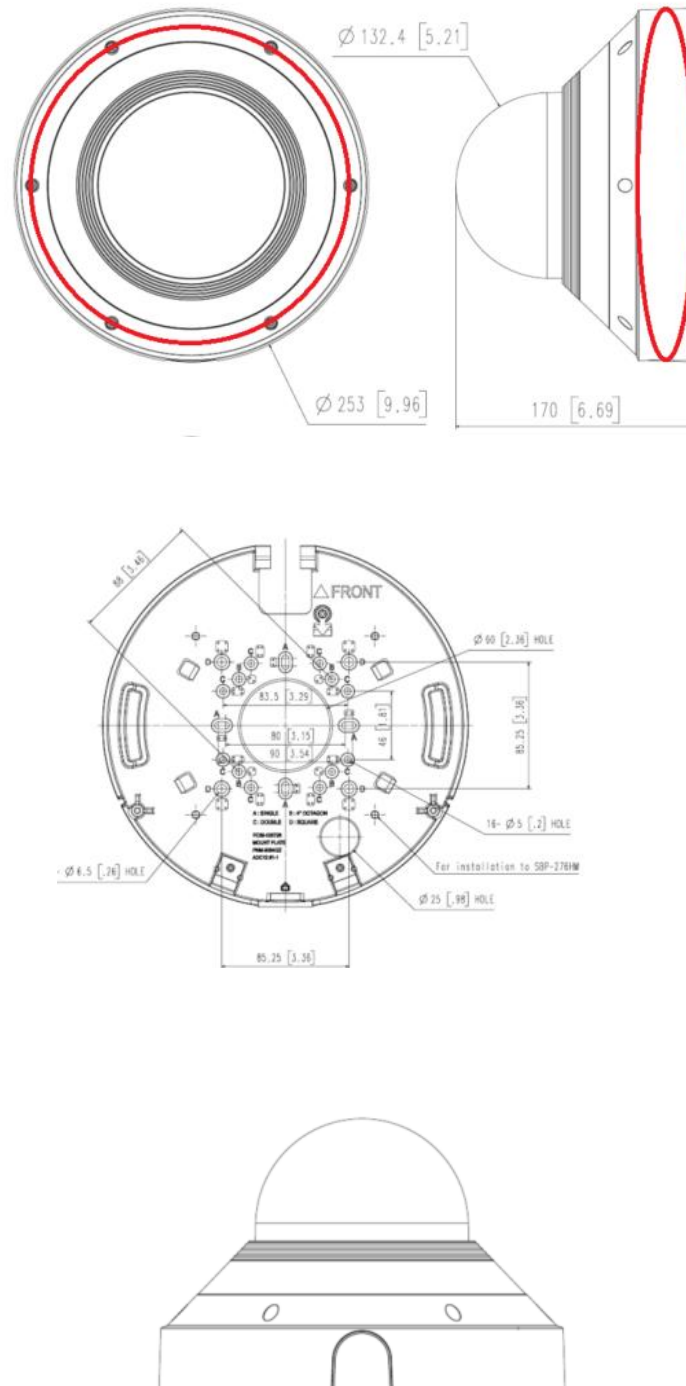
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3.6 Enclosure Dimensions or Impact point

3.6.1 Enclosure Dimensions (Unit: mm)



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