

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-2025-01430

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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 : Mar. 27, 2025

2. Manufacturer

- Name : Hanwha Vision Co., Ltd

3. Use of Report :

For submission to customer

4. Test sample / Model :

NETWORK CAMERA / PND-A7082RV

5. Date(s) of test :

Apr. 30, 2025 ~ May. 14, 2025

6. Test Standard (Method) used :

EN 60068-2-1, EN 60068-2-2, EN 60068-2-14, EN 60068-2-6, EN
60068-2-27, EN 60068-2-78, IEC 60068-2-1, IEC 60068-2-2, IEC
60068-2-14, IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-78

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: KyuNam Park (Signature)	Name: HoHyun Lee (Signature)

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

Jun. 02, 2025

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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
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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	PND-A7082RV	1 EA	–

2.2 Equipment information

Testing equipment	Model Name	Manufacturer	Manufacturing Number	Calibration Date
Temperature & Humidity Chamber	ARS-0390-AE	ESPEC	4120200113	Feb. 6, 2026
Temperature & Humidity Chamber	ARS-0390-AE	ESPEC	4120200057	Aug. 22, 2025
ESS	EGNZ28-15NW	ESPEC	1738460	Aug. 22, 2025
VIBRATION TESTING SYSTEM	LT1010	FAMTECH	D2012335	N/A
Acceleration sensor	8703A250M5	KISTLER	5830236	Jan. 16, 2026
Acceleration sensor	8703A250M5	KISTLER	5722241	Jan. 16, 2026



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2.3 Pre-test product images

2.3.1 Test sample



Top



Bottom



Front



Rear



Left side



Right side



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2.4 Testing equipment images

2.4.1 Test equipment



Temperature & Humidity Chamber



Temperature & Humidity Chamber



ESS



VIBRATION TESTING SYSTEM



8703A250M5



8703A250M5

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3. Cold Test (EN 60068-2-1, IEC 60068-2-1)

3.1 Test date and environmental conditions

3.1.1 Test date: May. 13, 2025 ~ Mar. 14, 2025

3.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	23.5	46.7	96.2

3.2 Test conditions and methods

3.2.1 Sample status: Non-operation

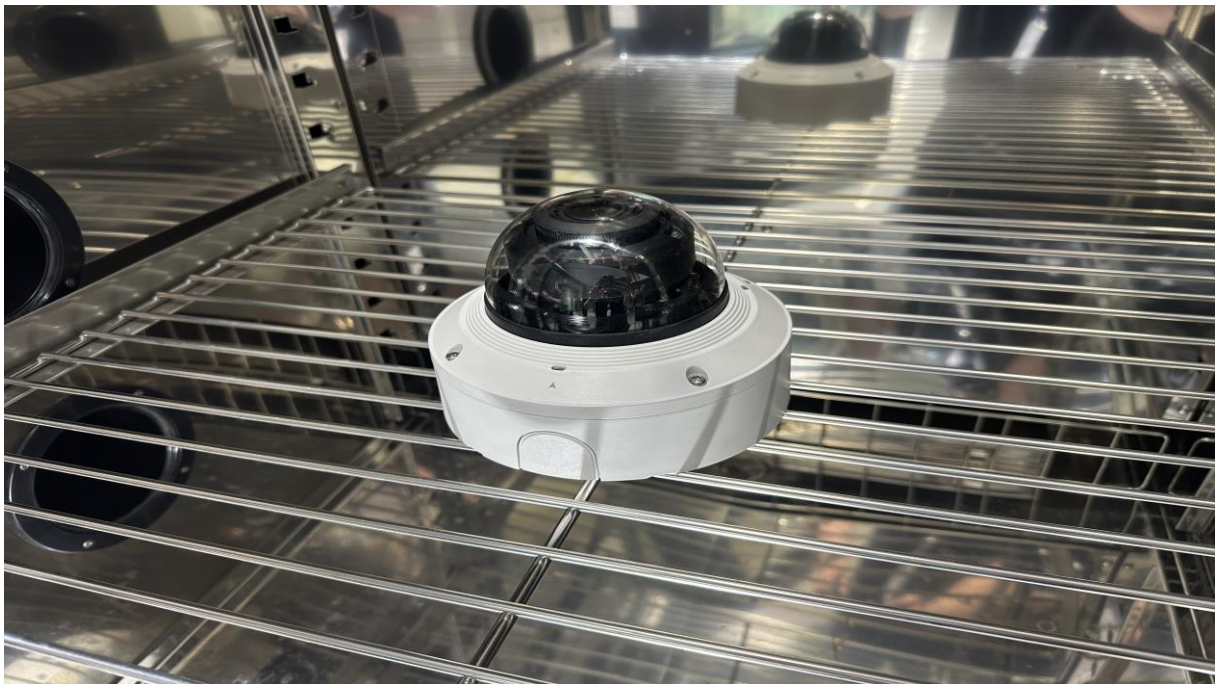
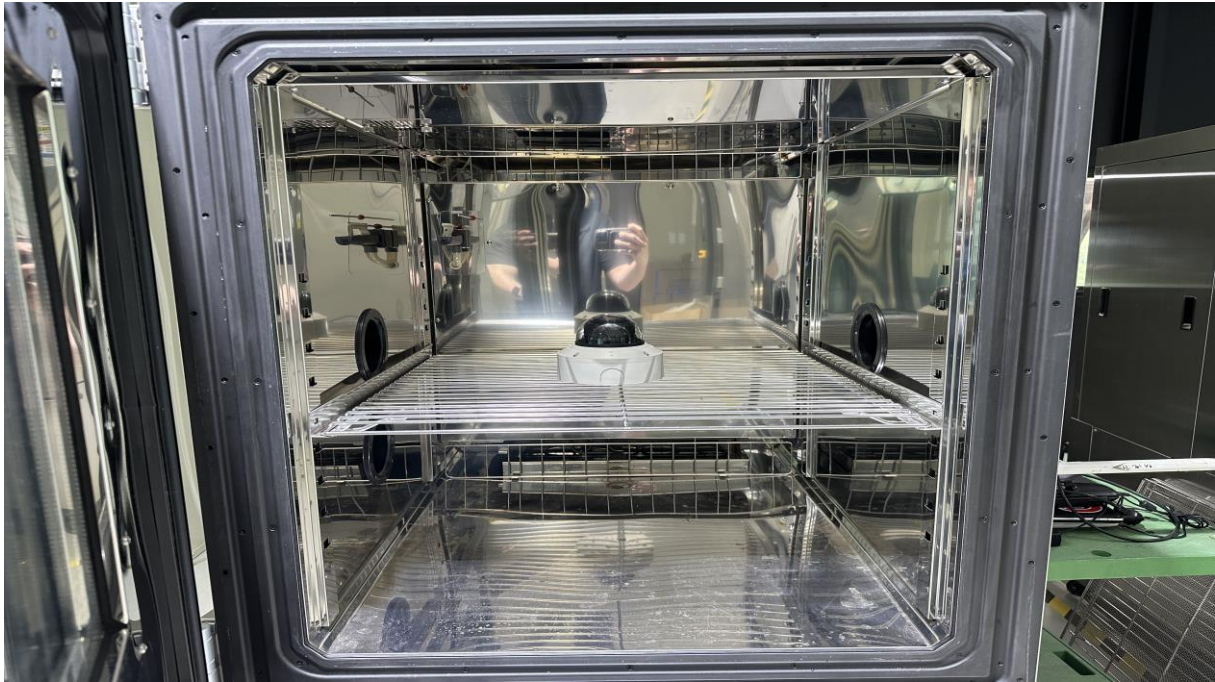
3.2.2 Test temperature: -25 °C

3.2.3 Test time: 16 h

3.2.4 Evaluation Criteria: Verification of Appearance Before and After Testing, and
Confirmation of Proper Product Functionality

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

Evaluations Criteria	Test result		Comment
Sample	Visual Inspection	Normal	-
	Operation and Function	Normal	-



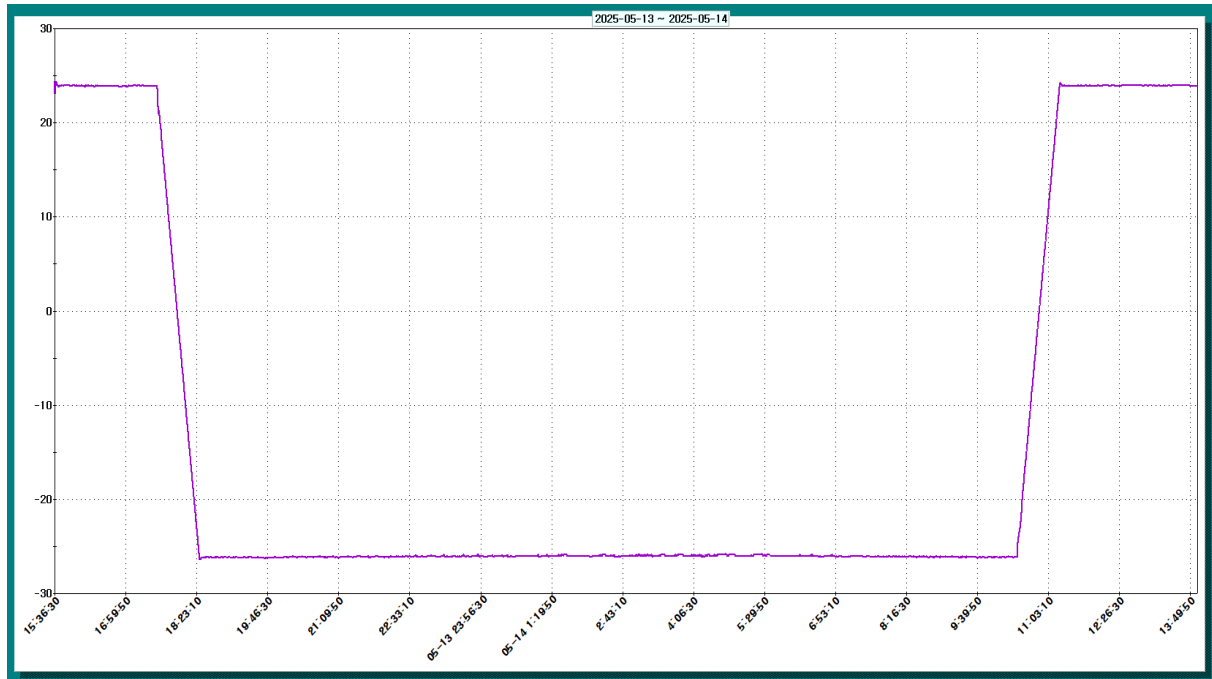
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3.5 Test Data

3.5.1 Test data and graph



Temperature Data

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4. Dry heat Test (EN 60068-2-2, IEC 60068-2-2)

4.1 Test date and environmental conditions

4.1.1 Test date: May. 09, 2025 ~ May. 14, 2025

4.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	25.1	44.8	98.3

4.2 Test conditions and methods

4.2.1 Sample status: Non-operation

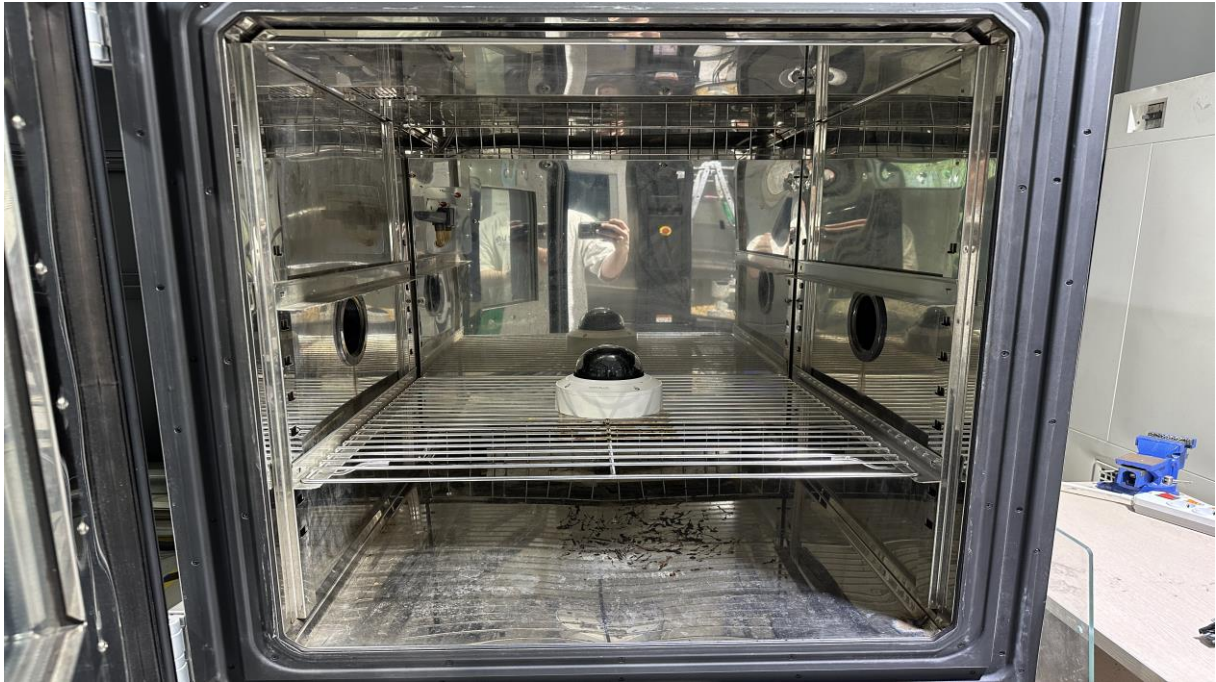
4.2.2 Test temperature: 60 °C

4.2.3 Test time: 96 h

4.2.4 Evaluation Criteria: Verification of Appearance Before and After Testing, and Confirmation of Proper Product Functionality.

4.3 Testing images

4.3.1 Evidence of test setting



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4.4 Test result**4.4.1 Test results table**

Evaluations Criteria	Test result		Comment
Sample	Visual Inspection	Normal	-
	Operation and Function	Normal	-



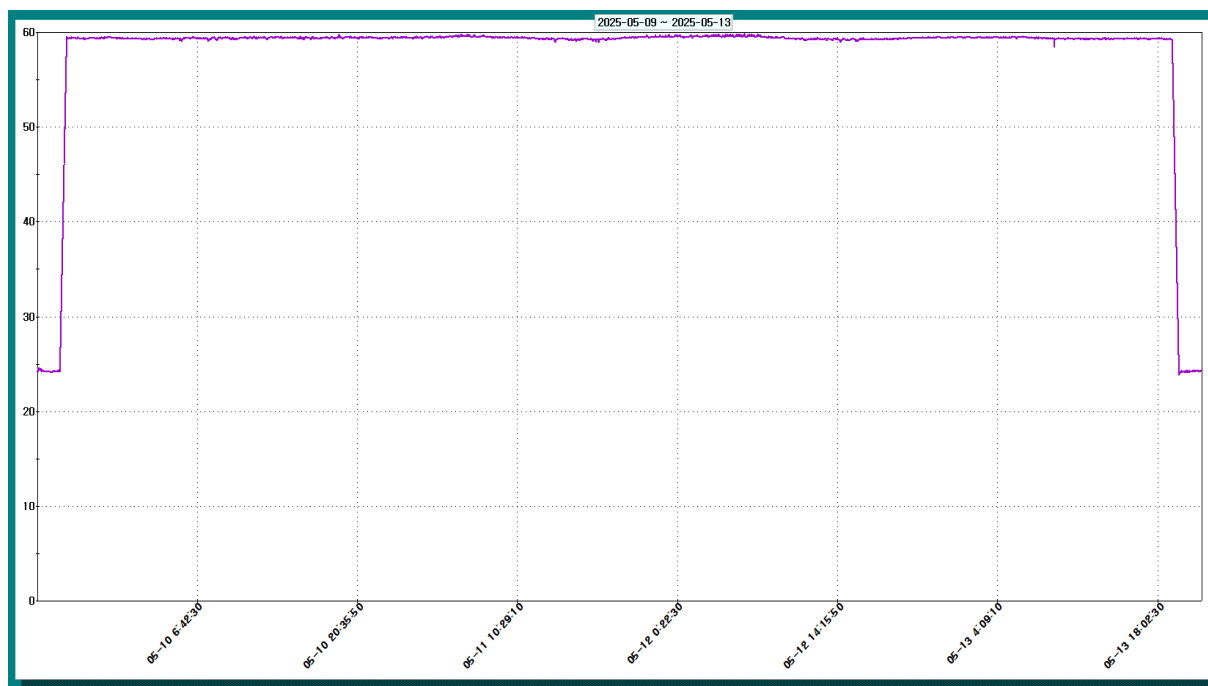
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4.5 Test Data

4.5.1 Test data and graph



Temperature Data

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5. Change of temperature Test (EN 60068-2-14, IEC 60068-2-14)

5.1 Test date and environmental conditions

5.1.1 Test date: May. 12, 2025 ~ May. 13, 2025

5.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	24.0	44.9	93.5

5.2 Test conditions and methods

5.2.1 Sample status: operation

5.2.2 Test temperature: -25 °C, 50 °C

5.2.3 Test time: 24 h

5.2.4 Evaluation Criteria: Verification of Appearance Before and After Testing, and Confirmation of Proper Product Functionality.

5.2.5 Test method

Temp↵	Temperature change rate(°C/min)↵	t ₁ (idle time)↵	Cycles↵
High↵	5 °C/min↵	3 h↵	3↵
Low↵	1 °C/min↵	3 h↵	3↵



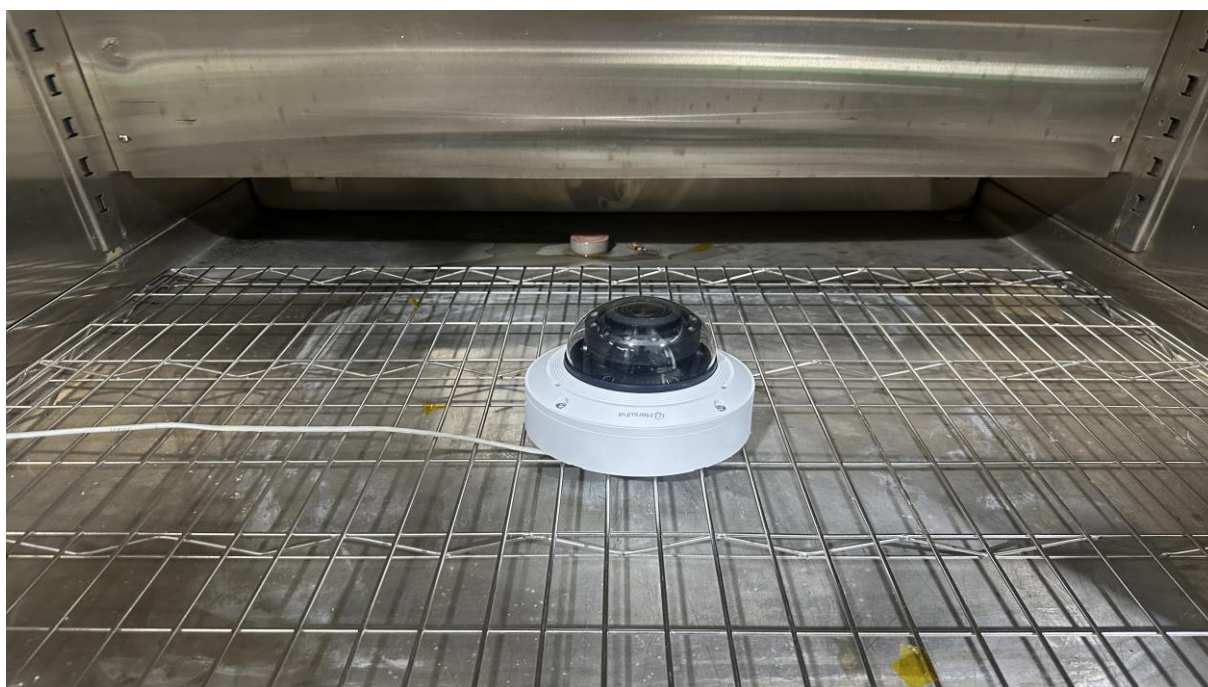
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5.3 Testing images

5.3.1 Evidence of test setting



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5.4 Test result**5.4.1 Test results table**

Evaluations Criteria	Test result		Comment
Sample	Visual Inspection	Normal	-
	Operation and Function	Normal	-



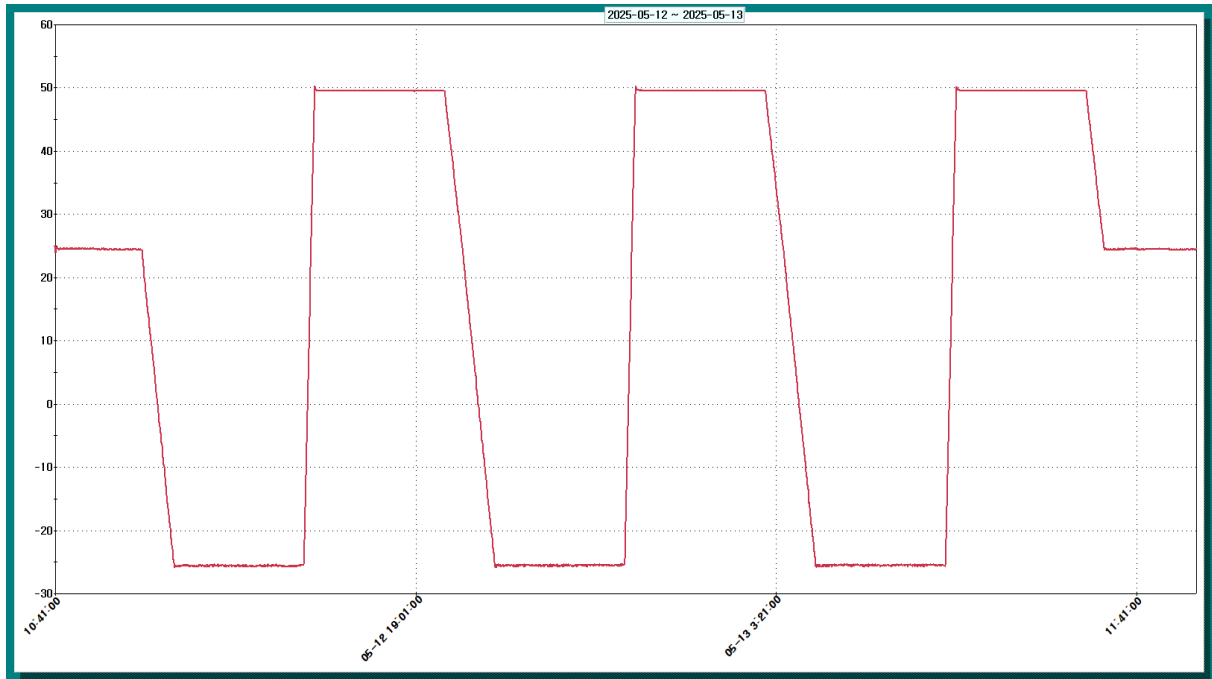
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5.5 Test Data

5.5.1 Test data and graph



Temperature Data



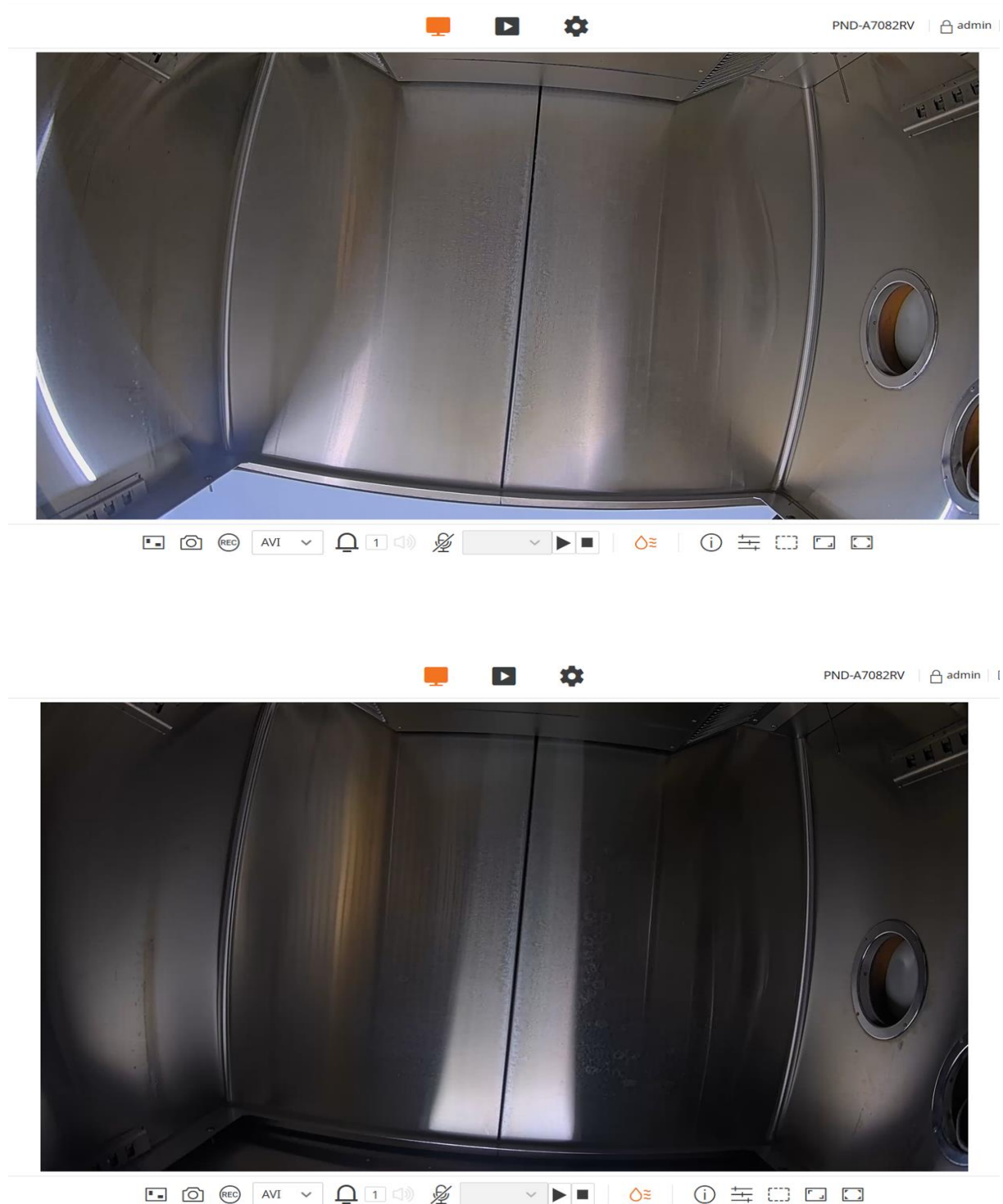
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5.6 Post-test operation and function

5.6.1 Test sample operation and function



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6. Vibration Test (EN 60068-2-6, IEC 60068-2-6)

6.1 Test date and environmental conditions

6.1.1 Test date: May. 02, 2025 ~ May. 06, 2025

6.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	22.6	48.4	93.6

6.2 Test conditions and methods

6.2.1 Vibration Test (EN 60068-2-6)

- Sample status: operation
- Frequency(Hz): 5 Hz ~ 200 Hz
- Acceleration(G): 1 G
- Sweep rate: 1 oct/min
- Test Axis: X, Y, Z
- Test time(h): Total 30 min (10 min. per each axis)



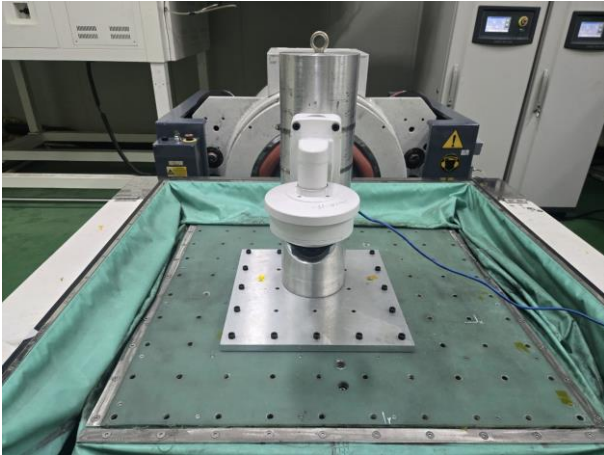
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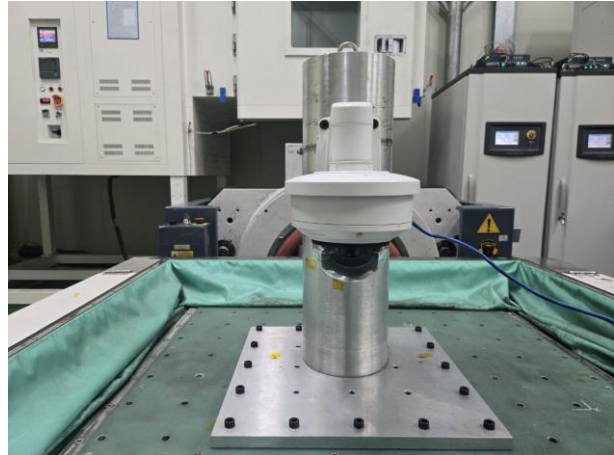
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6.3 Testing images

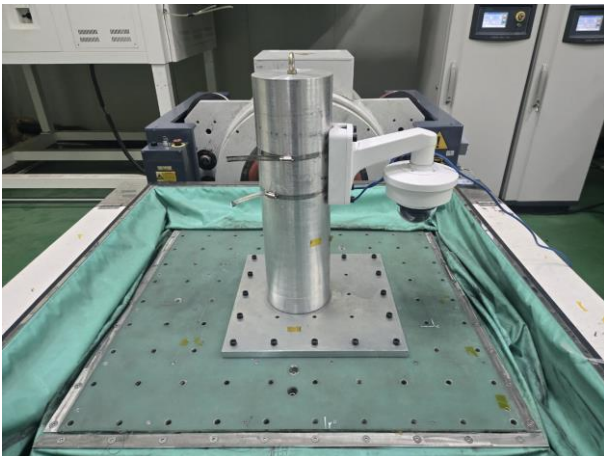
6.3.1 Evidence of test setting



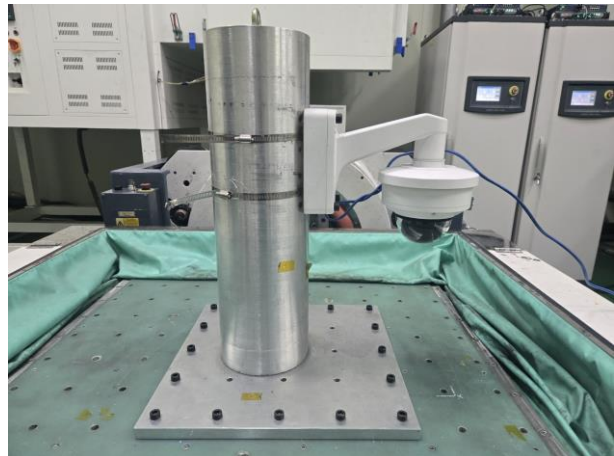
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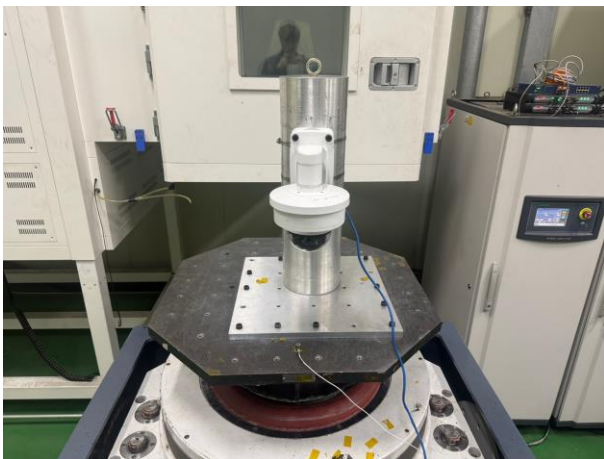
X axis_2



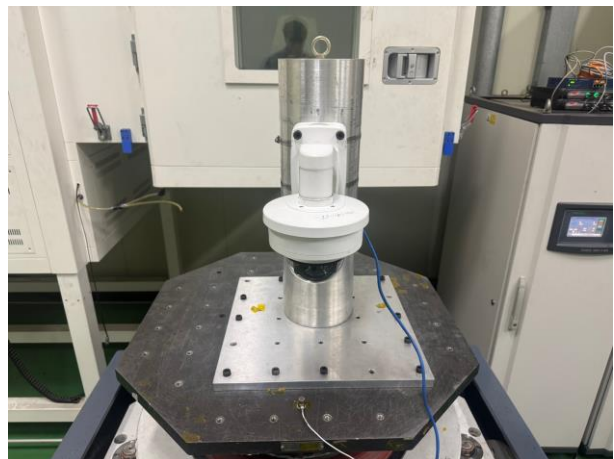
Y axis_1



Y axis_2



Z axis_1



Z axis_2

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6.4 Test result**6.4.1 Test results table**

Evaluations Criteria	Test result		Comment
Vibration Test	Before	Normal	-
	After	Normal	-



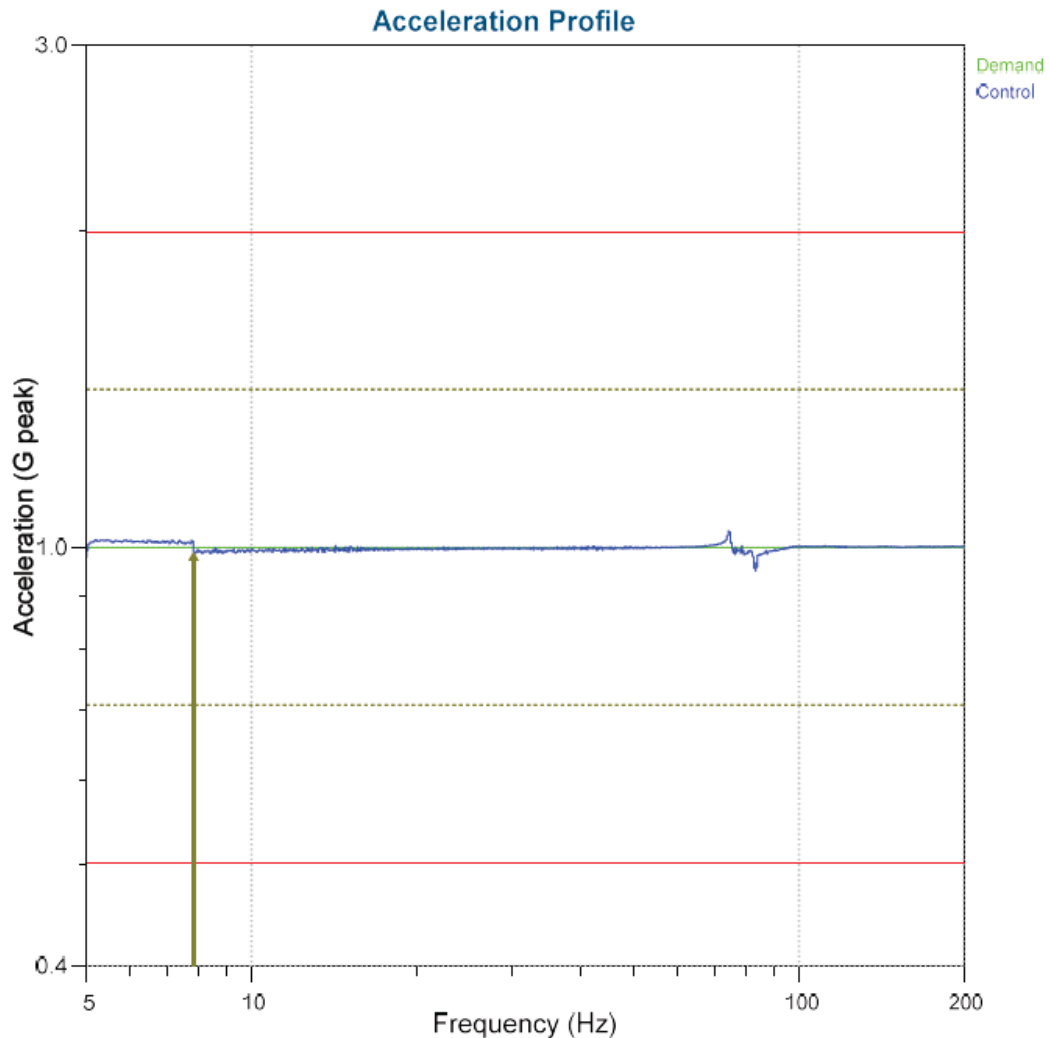
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6.5 Test Data

6.5.1 Test data and graph (Vibration Test X Axis)



5 05, 2025 10:17:31 Level 1) 100 % Output: 0 Volts peak 60068-2-t

Demand: 1 G Level Time: 0:10:00 Frequency: 7.841 Hz

Control: 0.002463 G Total Time: 0:10:11 End of Timed Test

X Axis

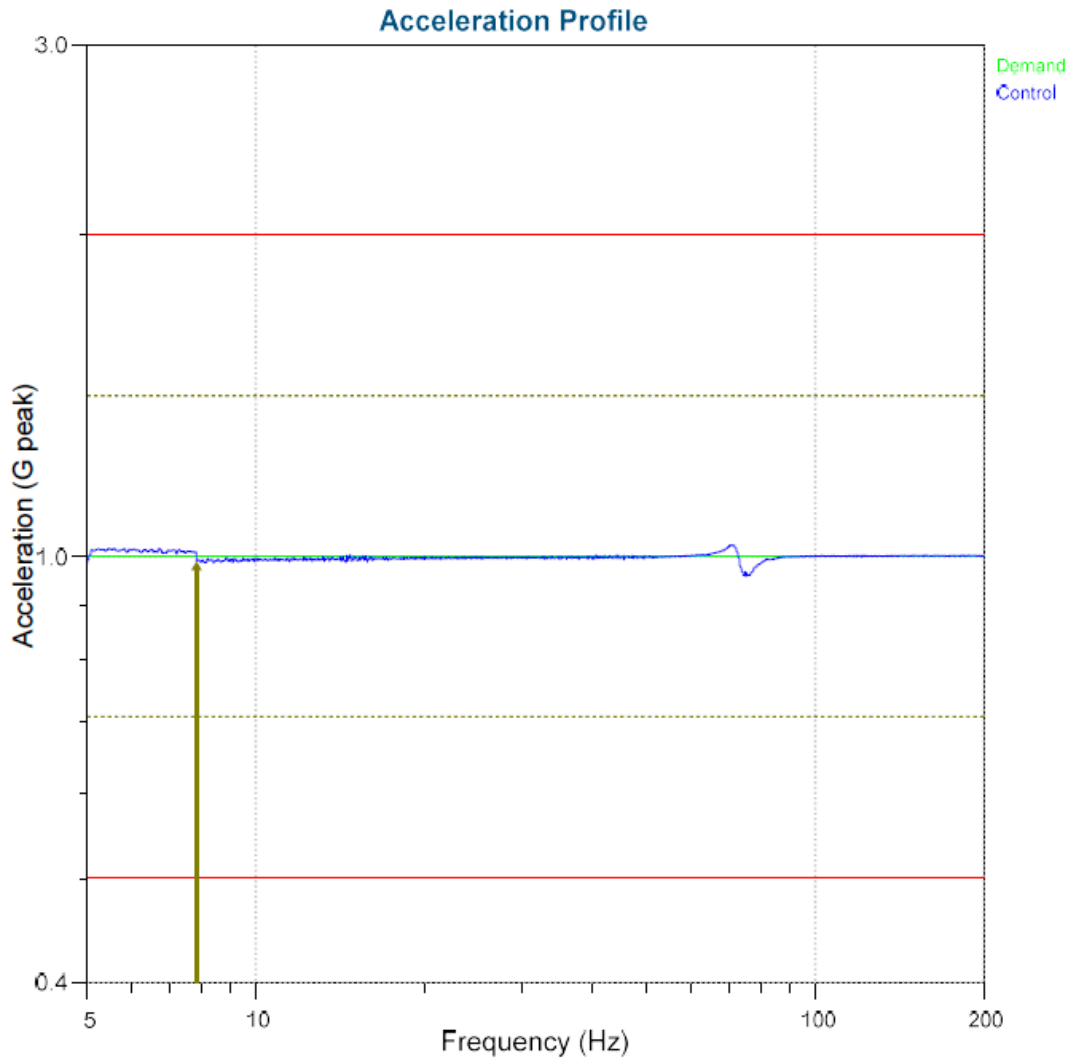


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6.5.2 Test data and graph (Vibration Test Y Axis)



5 05, 2025 09:35:21 Level 1) 100 % Output: 0 Volts peak 60068-2-

Demand: 1 G Level Time: 0:10:0 Frequency: 7.841 Hz

Control: 0.0006199 G Total Time: 0:10:12 End of Timed Test

Y Axis

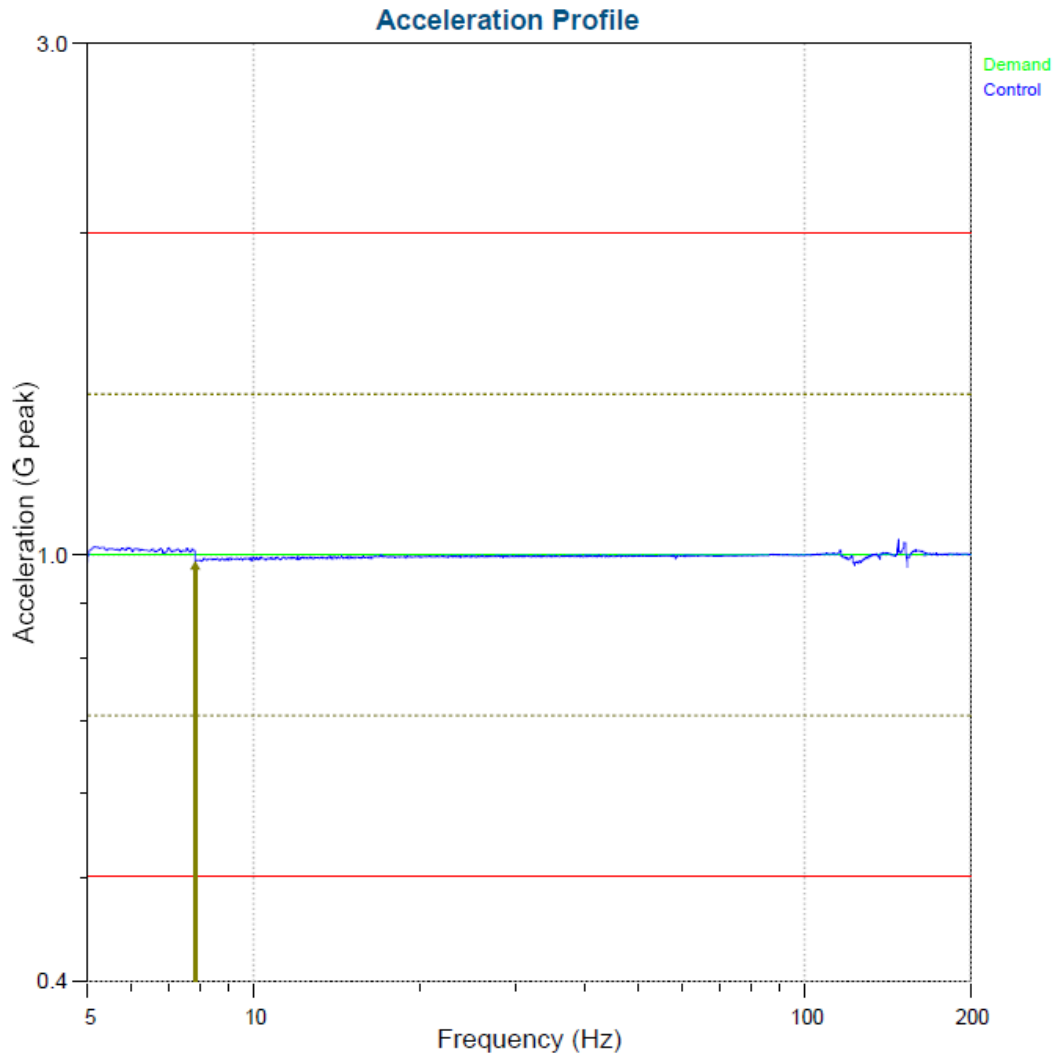


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6.5.3 Test data and graph (Vibration Test Z Axis)



5 06, 2025 09:15:0' Level 1) 100 % Output: 0 Volts peak 60068-2-t

Demand: 1 G Level Time: 0:10:0 Frequency: 7.841 Hz

Control: 0.0009179 G Total Time: 0:10:1 End of Timed Test

Z Axis



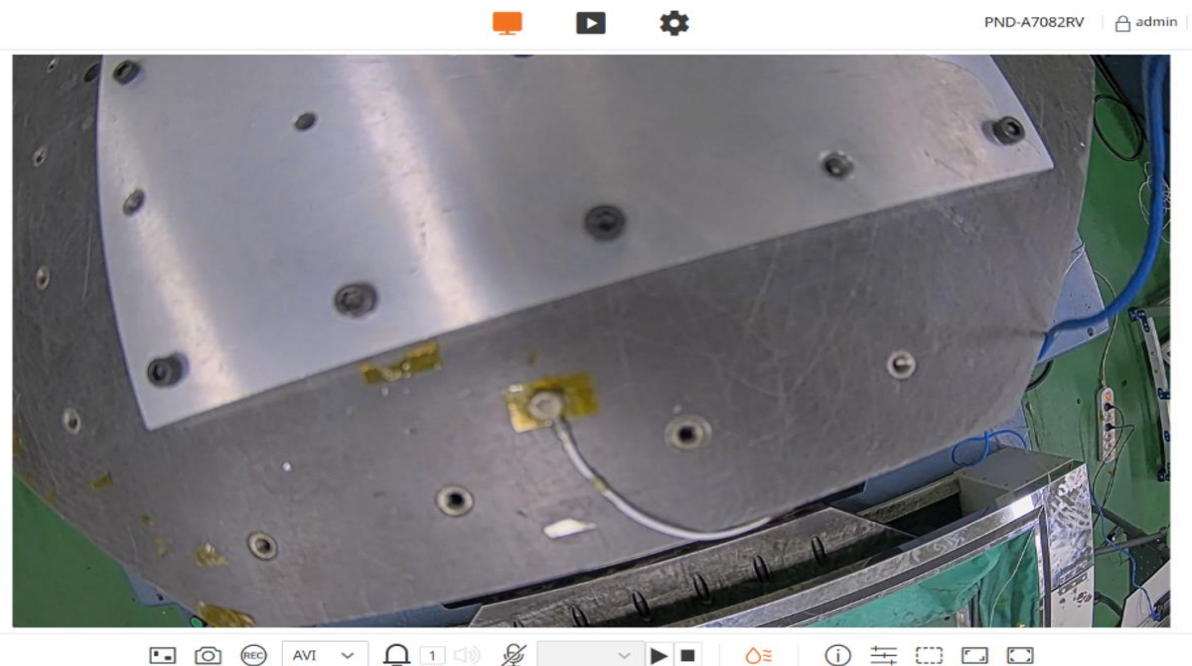
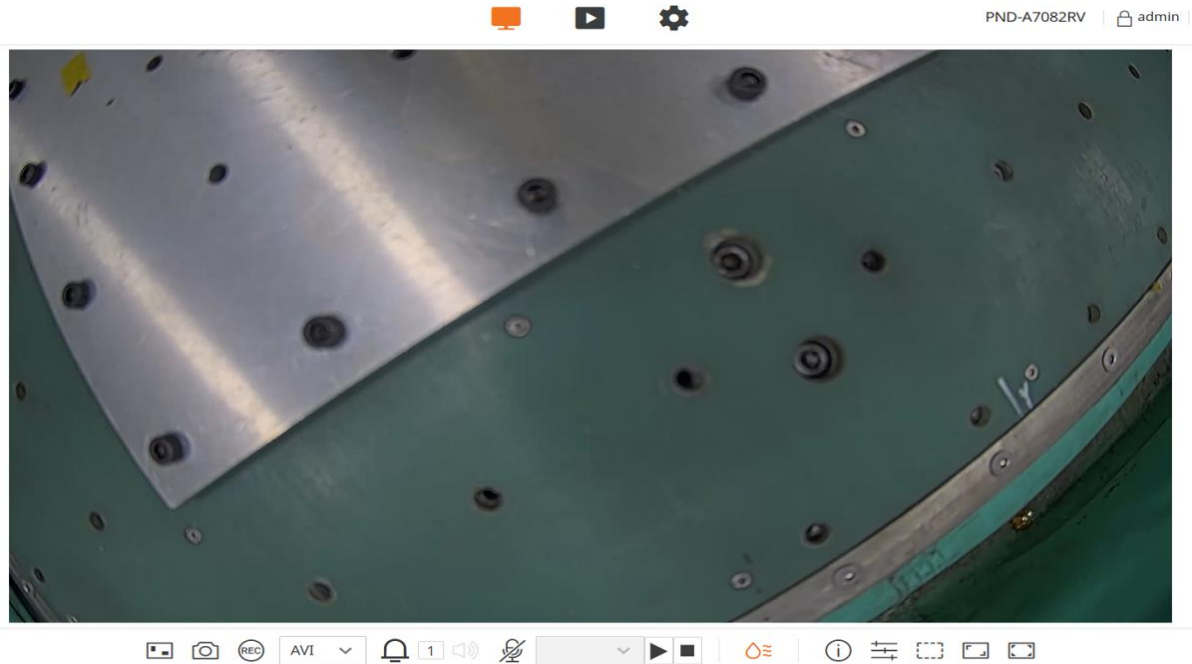
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6.6 Post-test operation and function

6.6.1 Test sample operation and function





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7. Shock Test (EN 60068-2-27, IEC 60068-2-27)

7.1 Test date and environmental conditions

7.1.1 Test date: May. 02, 2025 ~ May. 06, 2025

7.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	22.6	48.4	93.6

7.2 Test conditions and methods

7.2.1 Sample status: Non-operation

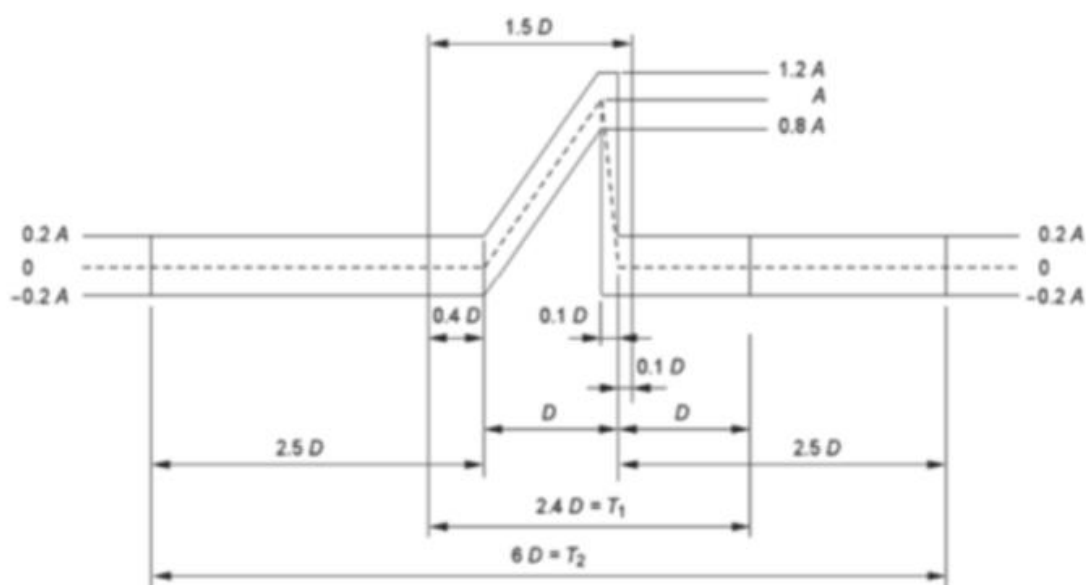
7.2.2 Acceleration(G): 10 G

7.2.3 Number of impacts: 10 per direction (total 60)

7.2.4 Test Axis: X, Y, Z

7.2.5 Test time(h): Total 30 min (10 min. per each axis)

7.2.6 Profile





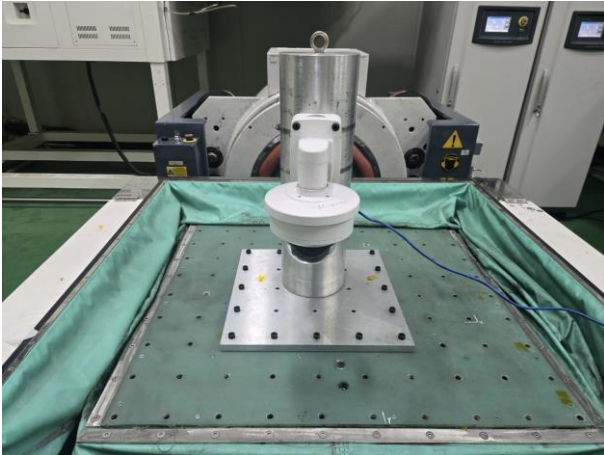
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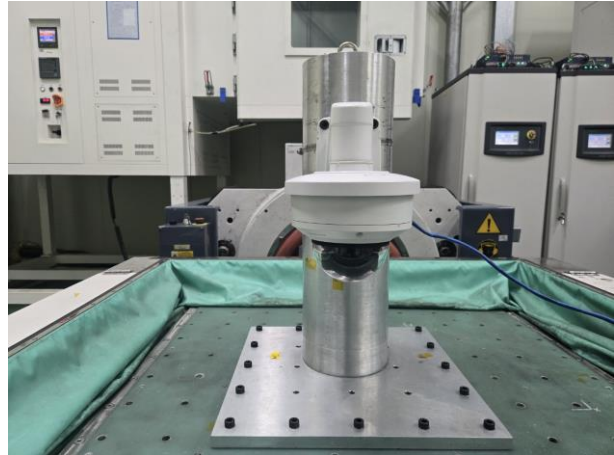
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7.3 Testing images

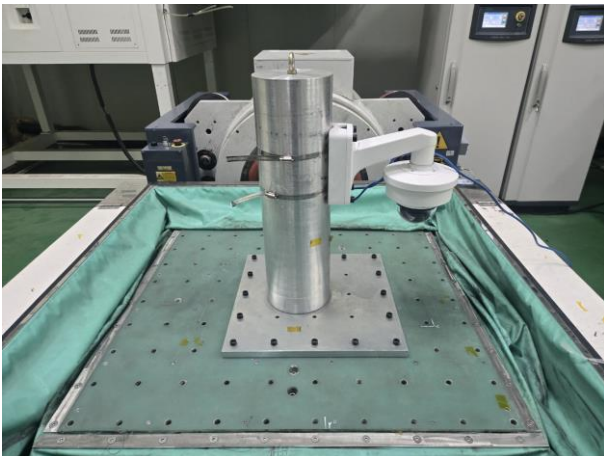
7.3.1 Evidence of test setting



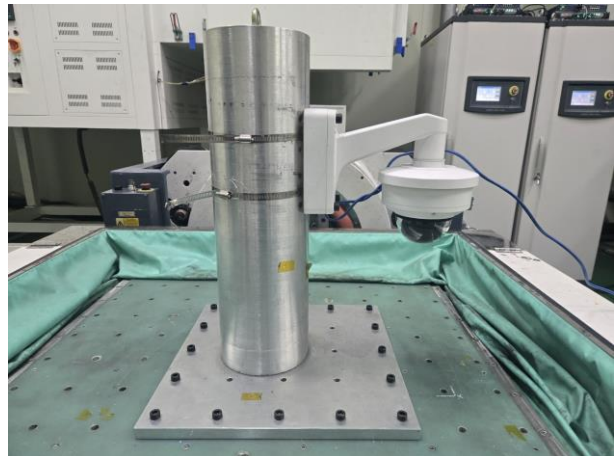
X axis_1



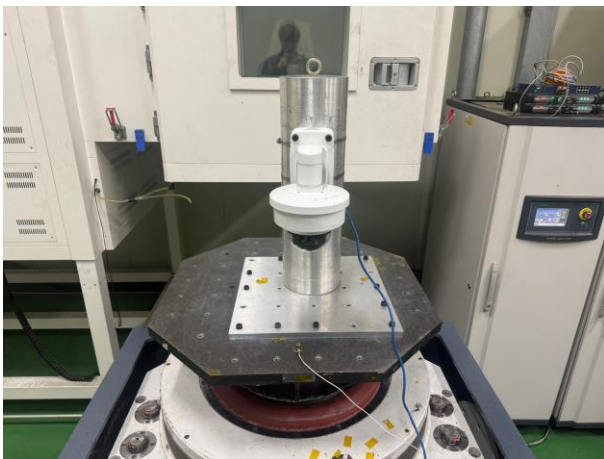
X axis_2



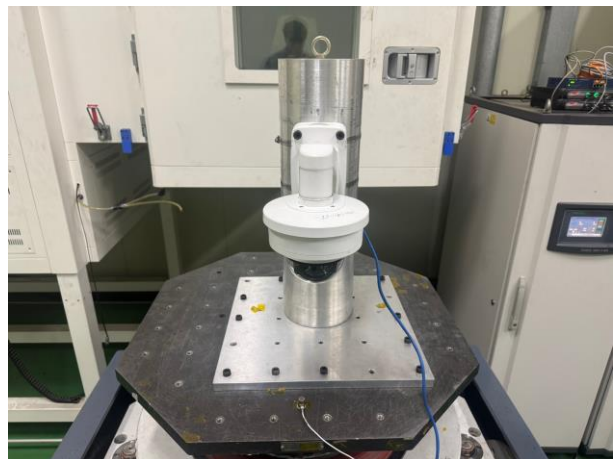
Y axis_1



Y axis_2



Z axis_1



Z axis_2

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7.4 Test result

7.4.1 Test results table

Evaluations Criteria	Test result		비고
	Visual Inspection	Normal	-
Sample	Operation and Function	Normal	-



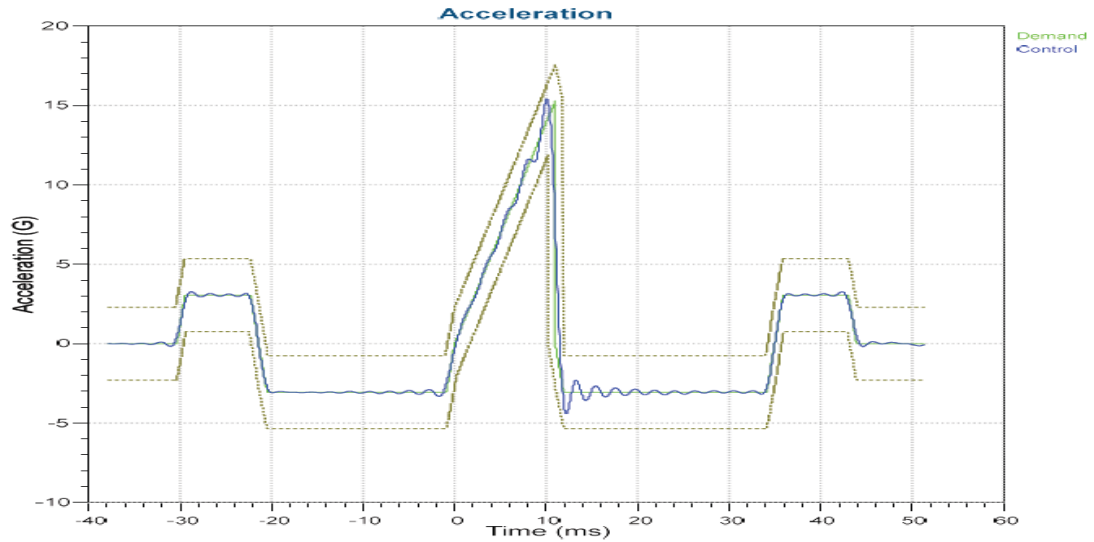
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7.5 Test Data

7.5.1 Test data and graph (Shock Test X Axis)



5 05, 2025 09:53:36 Level 1) 100 %

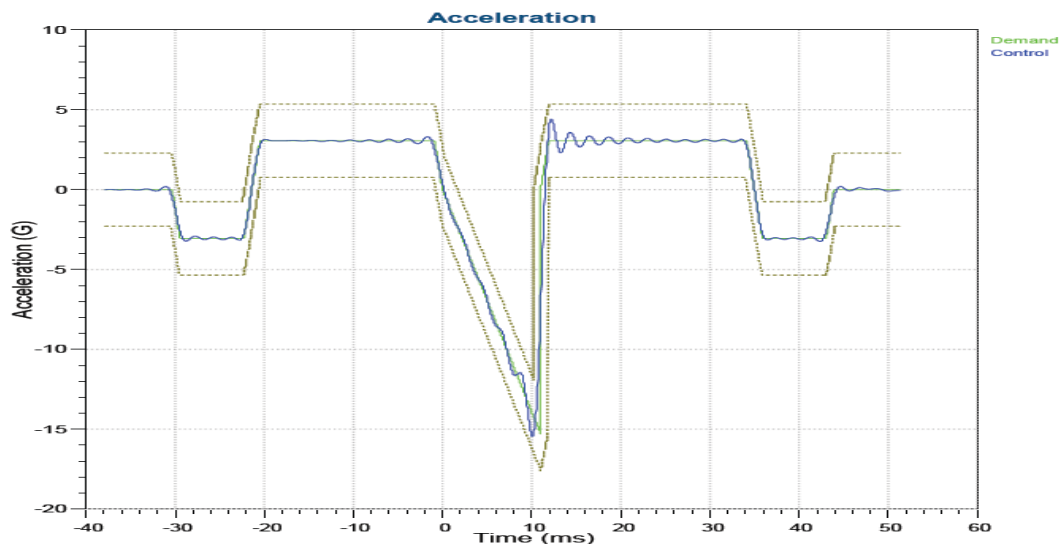
Output: 1.269 Volts peak 한화비전 60068-2

Demand: 15.3 C

Control: 15.41 C Pulse: 10 of 10

Running

X+



5 05, 2025 09:54:41 Level 2) 100 %

Output: 1.272 Volts peak 한화비전 60068-2

Demand: 15.3 C

Control: 15.45 C Pulse: 10 of 10

End of Test

X-

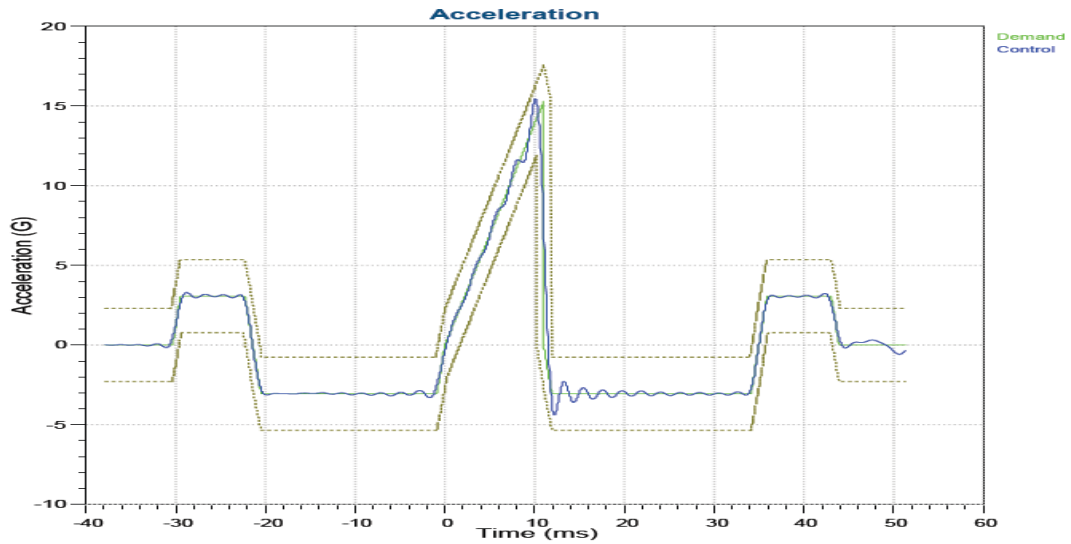


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7.5.2 Test data and graph (Shock Test Y Axis)



5 05, 2025 09:23:11 Level 1) 100 %

Output: 1.242 Volts peak

한화비전 60068-2

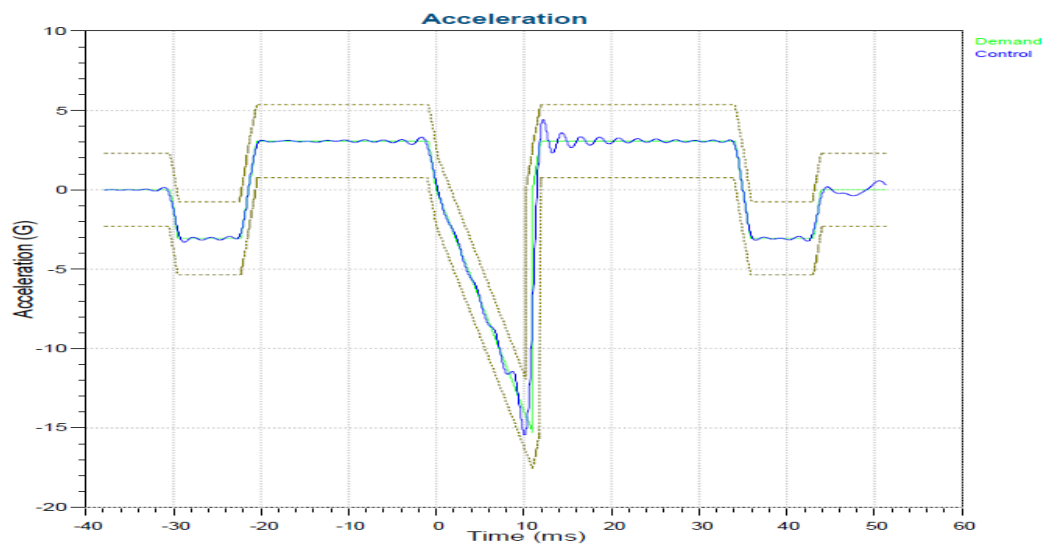
Demand: 15.3 C

Control: 15.45 C

Pulse: 10 of 10

Running

Y+



5 05, 2025 09:23:51 Level 2) 100 %

Output: 1.251 Volts peak

한화비전 60068-2

Demand: 15.3 C

Control: 15.44 C

Pulse: 10 of 10

End of Test

Y-

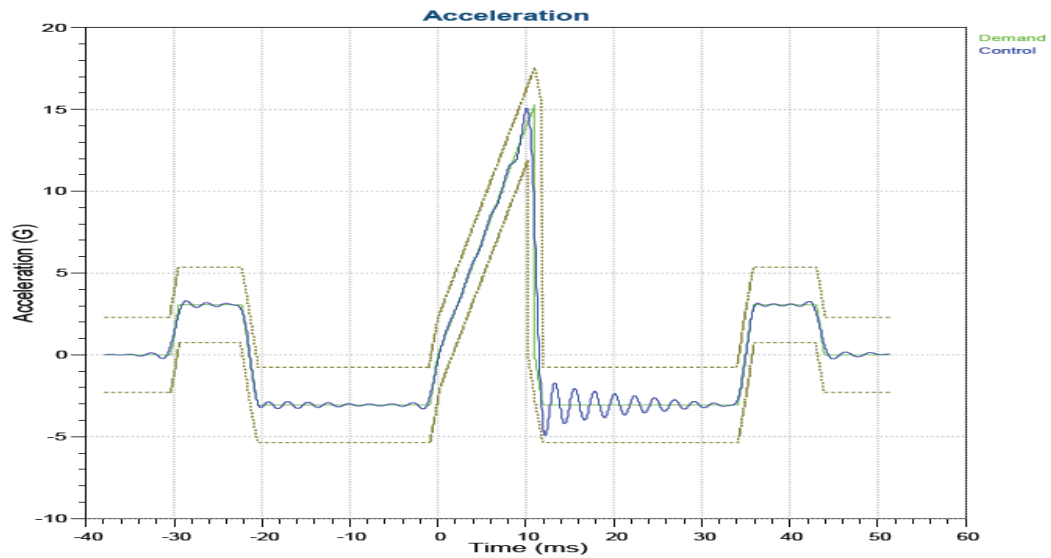


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7.5.3 Test data and graph (Shock Test Z Axis)



5 06, 2025 09:03:3: Level 1) 100 %

Output: 1.06 Volts peal

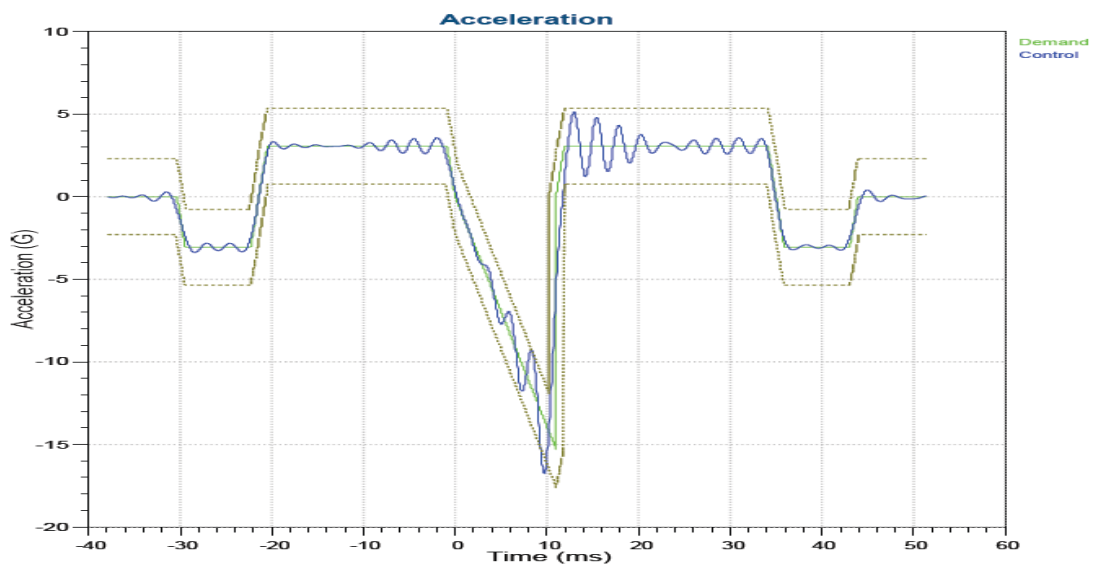
한 화 비 전 60068-2

Demand: 15.3 C

Control: 15.07 C Pulse: 10 of 10

Running

Z+



5 06, 2025 09:04:1: Level 2) 100 %

Output: 1.064 Volts peal

한 화 비 전 60068-2

Demand: 15.3 C

Control: 16.76 C Pulse: 10 of 10

End of Tes

Z-

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8. Damp heat Test (EN 60068-2-78, IEC 60068-2-78)

8.1 Test date and environmental conditions

8.1.1 Test date: Apr. 30, 2025 ~ May. 09, 2025

8.1.2 Measured Environmental Conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	22.6	44.4	93.5

8.2 Test conditions and methods

8.2.1 Sample status: operation

8.2.2 Test temperature: 40 ± 2 °C

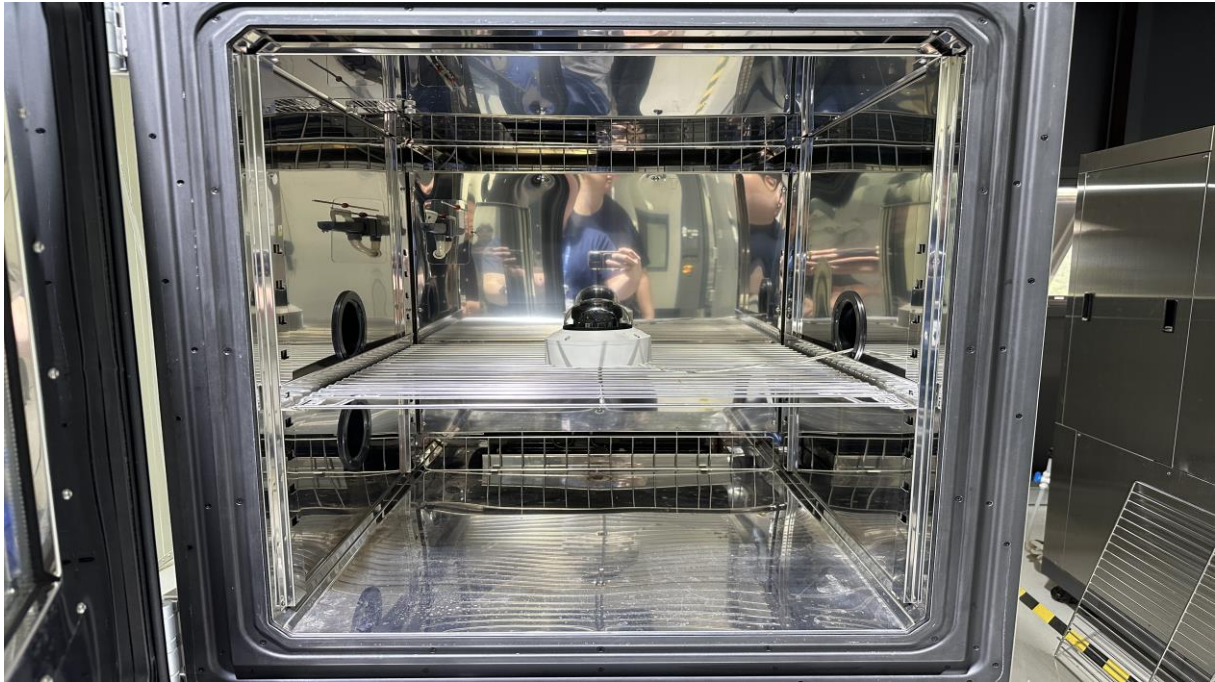
8.2.3 Test Humidity: 93 ± 3 % R.H.

8.2.4 Test time: 240 h

8.2.5 Evaluation Criteria: Verification of Appearance Before and After Testing, and Confirmation of Proper Product Functionality.

8.3 Testing images

8.3.1 Evidence of test setting



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8.4 Test result**8.4.1 Test results table**

Evaluations Criteria	Test result		비고
	Visual Inspection	Normal	-
Sample	Operation and Function	Normal	-



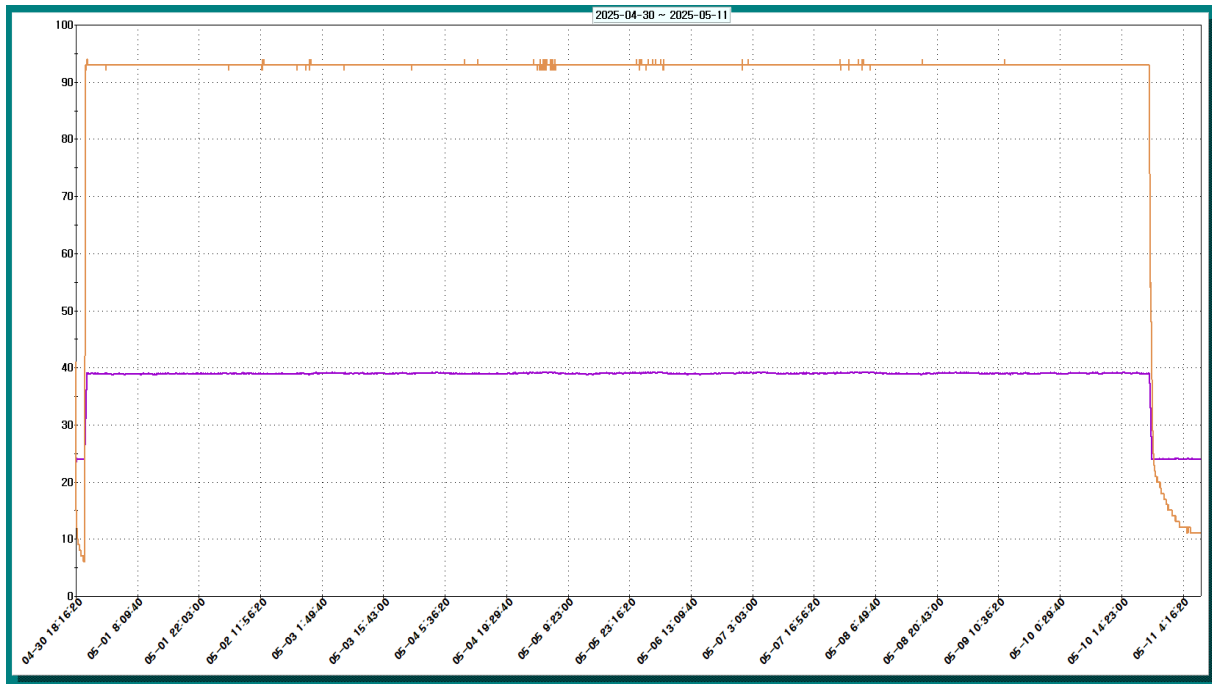
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8.5 Test Data

8.5.1 Test data and graph



Temperature Data

8.6 Post-test product images

8.6.1 Test sample



Top



Bottom



Front



Rear



Left side



Right side



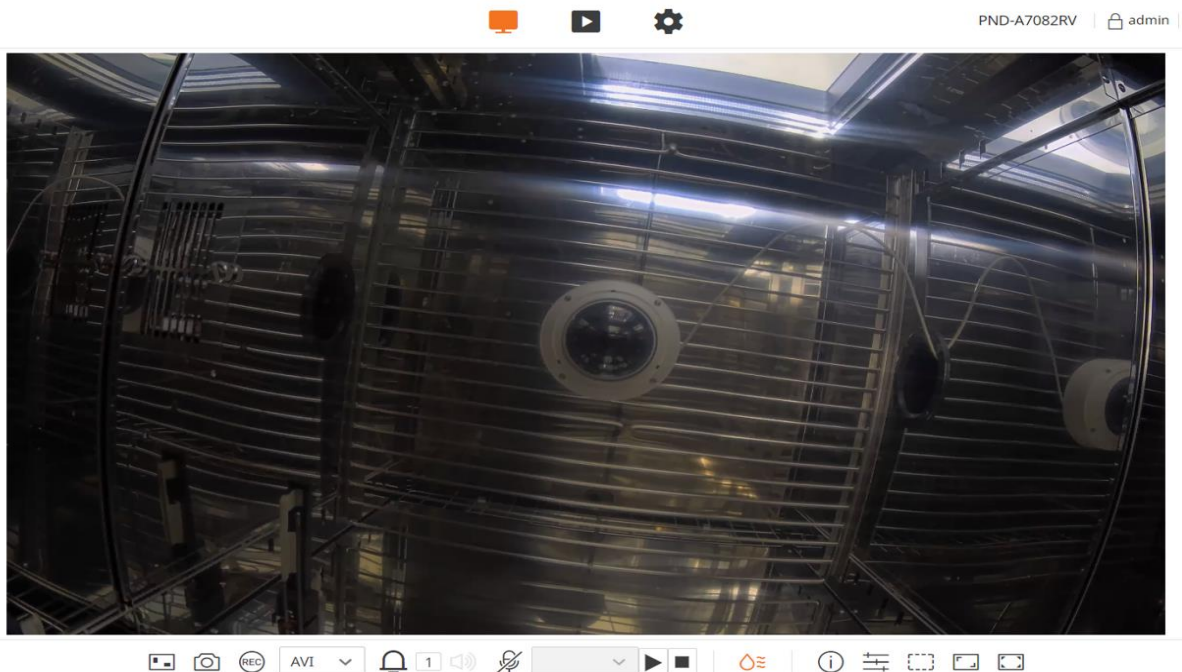
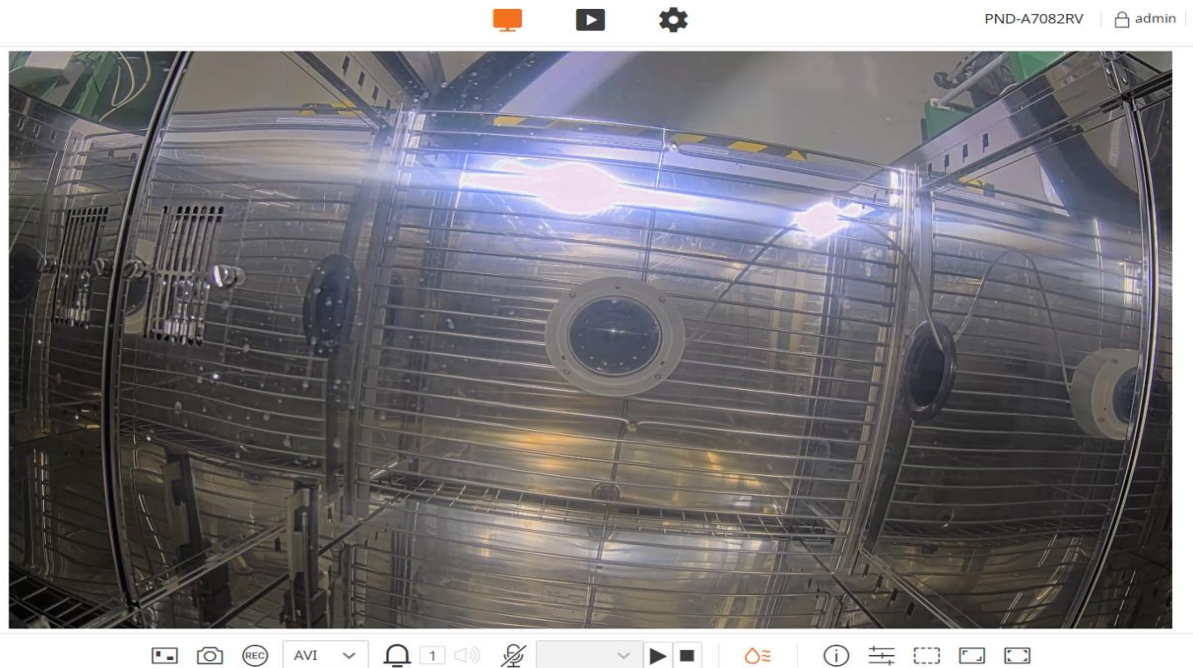
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8.7 Post-test operation and function

8.7.1 Test sample operation and function



- End -