

TEST REPORT



1. Report No. : PTL-TR-25-0479
2. Client : Hanwha Vision Co., Ltd.
Address : 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
3. Product : Network Camera
4. Model : PNO-A6081R
5. Serial number : N/A
6. Test standard : EN 60068-2-6:2008 Environmental testing-
Part 2-6 : Tests-Test Fc : Vibration(sinusoidal)
IEC 60068-2-6:2007 Environmental testing-
Part 2-6 : Tests-Test Fc : Vibration(sinusoidal)
7. Date of test : 2025. 05. 21
8. Location of Test : ☒ Permanent Testing Lab. ☐ On Site Testing
9. Test result : Page 10, [Table 3. Vibration test result]
10. Use of report : For quality control
11. Testing environment : (24 ± 2) °C, (50 ± 3) % R.H.

Affirmation	Tested by	Technical manager
	Name : Sang Min Kim (Signature)	Name : Hyun Jin Kang (Signature)

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2025. 06. 11

PTL Co., Ltd.



※ The test report is not relate to our KS Q ISO/IEC 17025 and KOLAS accreditation.

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History of report

Date	History	Remarks
June 11, 2025	Originally issued	-

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1. Test laboratory

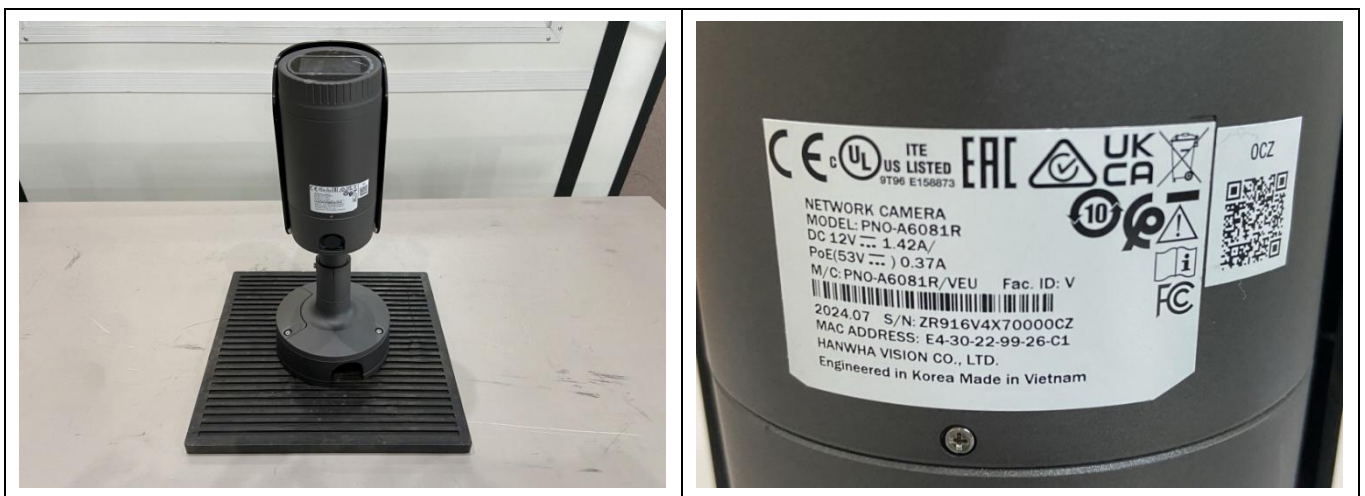
- 1) Name of test laboratory : PTL Co. Ltd.
- 2) Address : 3-3, Neummal-gil, Yanggam-myeon,
Hwaseong-si, Gyeonggi-do, Republic of Korea

2. Sample

2.1 Sample description

- 1) Client : Hanwha Vision Co., Ltd.
- 2) Manufacturer : Hanwha Vision Co., Ltd.
- 3) Product : Network Camera
- 4) Model : PNO-A6081R
- 5) Serial number : N/A
- 6) Sample quantity : 1 EA

2.2 Sample picture



[Picture 1. Test sample : Network Camera]

3. Test item

3.1 Vibration test

- 1) Date of test : 2025. 05. 21
- 2) Test standard : EN 60068-2-6:2008 Environmental testing-
Part 2-6 : Tests-Test Fc : Vibration(sinusoidal)
IEC 60068-2-6:2007 Environmental testing-
Part 2-6 : Tests-Test Fc : Vibration(sinusoidal)
- 3) Test direction : Longitudinal (X-axis), Transverse (Y-axis), Vertical (Z-axis)
- 4) Test time : Each axis 7 min 49 s
- 5) Sample status : Non-packing / Non-operating
- 6) Sample check : Before the test, After the test (Visual)
Before the test, After the test (Functional)
- 7) Sample quantity : 1 EA
- 8) Test method
 - ① Before the test, at the standard atmospheric conditions
check visual and functional of the test sample.
 - ② Fix the test sample on the vibration tester.
 - ③ Implement the vibration test Longitudinal (X-axis), Transverse (Y-axis), Vertical (Z-axis)
direction according to [Table 1. Vibration test condition].
 - ④ After the test, at the standard atmospheric conditions
check visual and functional of the test sample.

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9) Test condition

Frequency	Acceleration	Sweep rate	Cycle	Test time
Hz	m/s ²	oct/min		
10 ~ 150	5	1	10	7 min 49 s

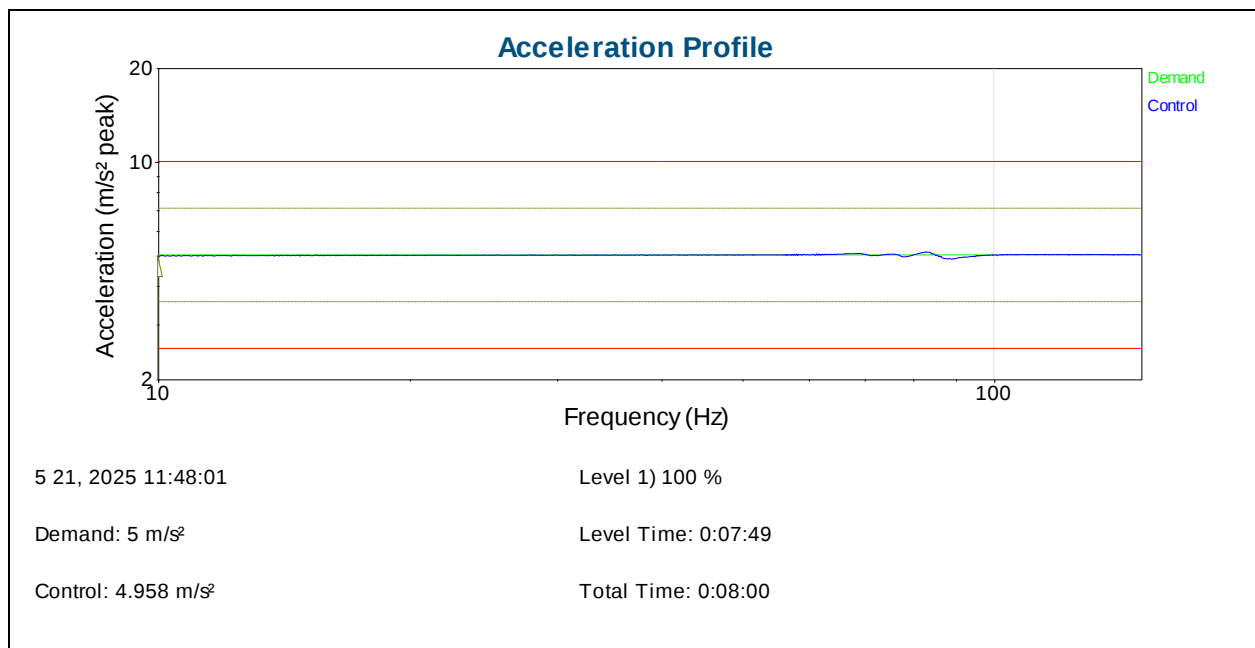
※ 1 Cycle : 10 Hz → 150 Hz → 10 Hz

[Table 1. Vibration test condition]

4. Test picture and graph



[Picture 2. Longitudinal (X-axis)_set-up]

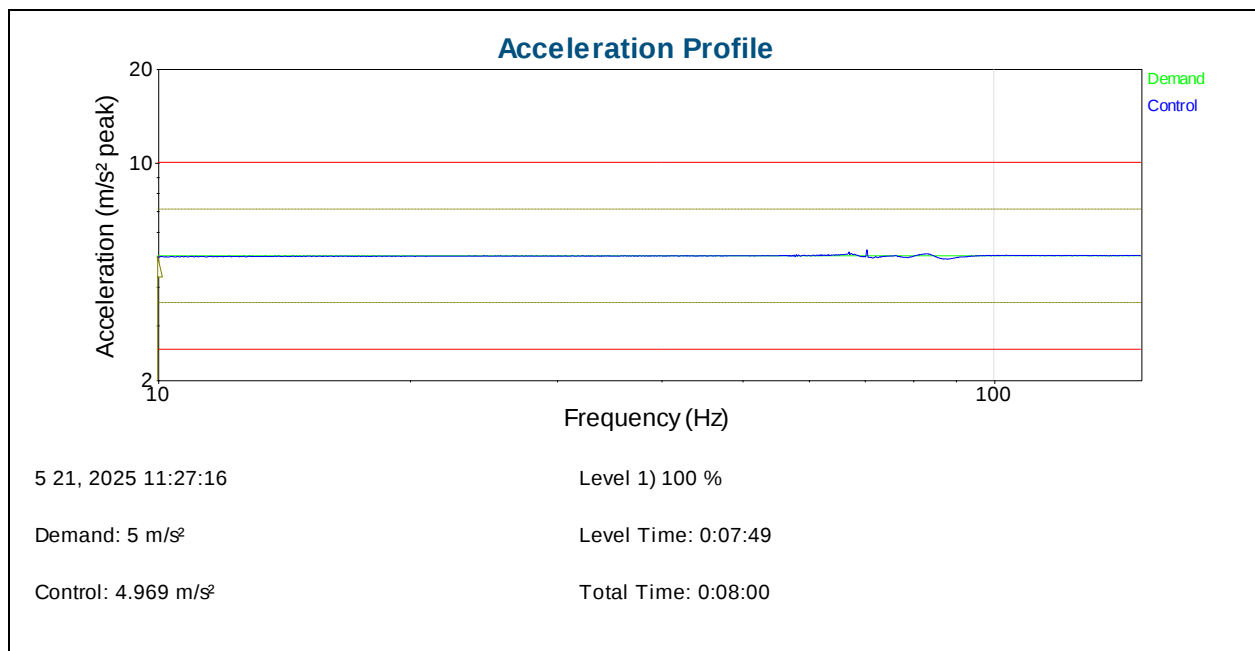


[Graph 1. Longitudinal (X-axis)_Vibration test]

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[Picture 3. Transverse (Y-axis)_set-up]

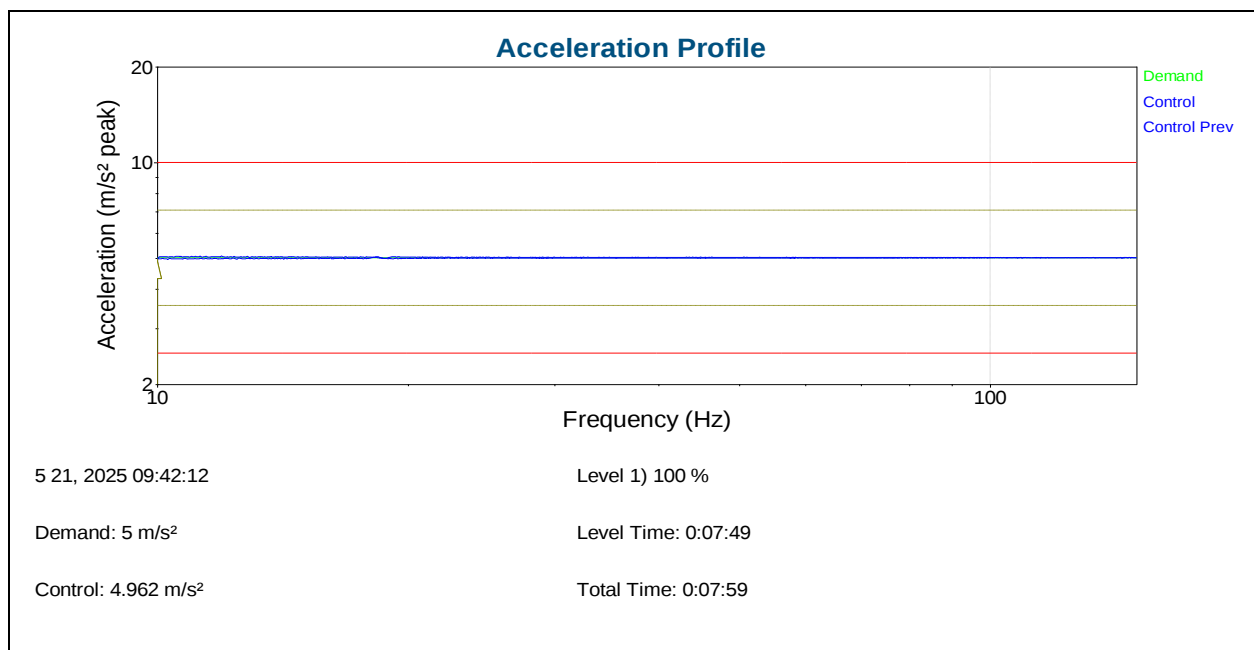


[Graph 2. Transverse (Y-axis)_Vibration test]

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[Picture 4. Vertical (Z-axis)_set-up]



[Graph 3. Vertical (Z-axis)_Vibration test]

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5. Test equipment

Division	Equipment name	Model	Serial number	Manufacturer	Next calibration date	Calibration company
Main equipment	Medium vibration tester	EDS5000LS3-445	D1808328	FAMTECH	2026. 04. 04	SICT
	Medium vibration tester II	EDS5000LS4-445	D2304121	FAMTECH	2025. 06. 10	SICT
Assistant equipment	Accelerometer	8703A250M5	5415077	KISTLER	2026. 04. 30	SICT
	Temperature & Humidity Recorder	MHB-382SD	AJ47566	LUTRON	2026. 05. 08	SICT

[Table 2. Vibration test used equipment]

6. Test result

Division	Check List	Test Result
Visual	Sample deformation and crack, loosening of screw	No abnormality is observed (Appendix 1. Visual check)
Functional	Check camera operation	Appendix 2. Functional check

[Table 3. Vibration test result]

Appendix 1. Visual check



[Picture 5. Sample after test_1]



[Picture 6. Sample after test_2]

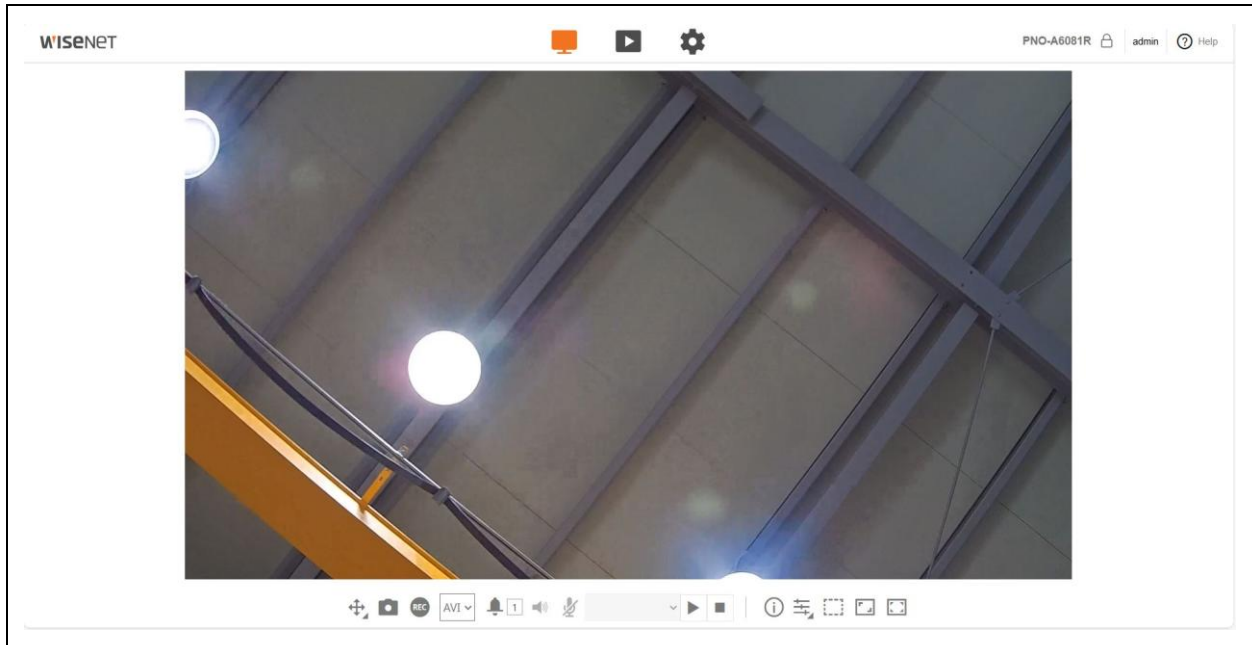


[Picture 7. Sample after test_3]

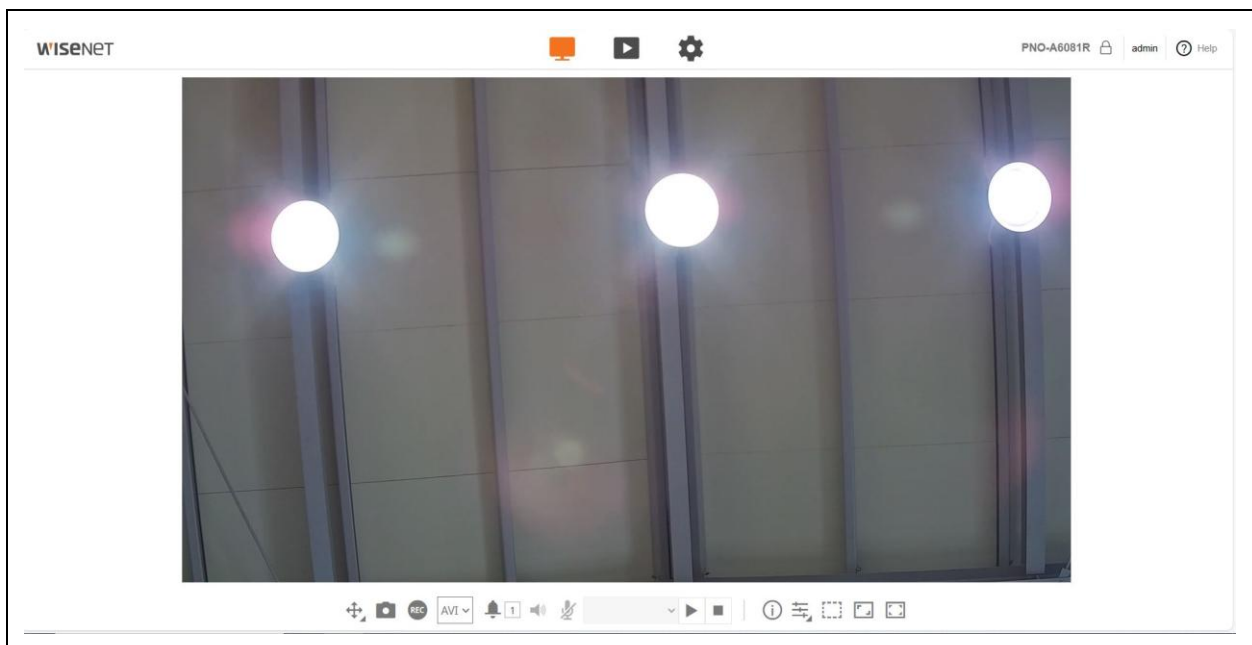


[Picture 8. Sample after test_4]

Appendix 2. Functional check



[Picture 9. Before the test_check camera operation]



[Picture 10. After the test_check camera operation]

-End-