


TEST REPORT

 CTK Co., Ltd. <small>The Power Leader of Global Regulatory Certification</small>	CTK Co., Ltd. (Ho-dong) 113, Yejik-ro, Cheoin-gu, Yongin-shi Gyeonggi-do KOREA, REPUBLIC OF Tel: +82-31-339-9970 Fax: +82-31-624-9501	REPORT No.: CTK-2020-04874 Page (1) / (12) pages	
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1. Applicant

◦ Name : Hanwha Techwin Co., Ltd.

◦ Address..... : 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13488 KOREA

◦ Date of Receipt..... : 2020-10-05

2. Manufacturer

◦ Name : Hanwha Techwin Co., Ltd.

3. Use of Report : Quality control

4. Test sample / Model : NETWORK CAMERA / XNP-9250R



5. Date(s) of test : 2020-12-11

6. Test Standard (Method) used....: Specifications presented by the sponsor
(reference NEMA TS 2.2.7, 2.2.8)

7. Testing Environment.....: Temperature: (25.0 ± 10.0) °C, Humidity: (50 ± 25) %R.H.,
Air Pressure: (99.0 ± 2) kPa

8. Results : Refer to each test items


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:
	Min-Gi Mun  (Signature)	YenHwang Jung  (Signature)

2020-12-11

CTK Co., Ltd.



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Test place

Institution name	CTK Co., Ltd.
Address	142, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea

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Model description

Basic Model	XNP-9250R
Series model	XNP-9250, XNP-8250R, XNP-8250
Model differences	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.), differences in electronic parts inside the product.

1. Resonant search

1.1. Test equipment


Test equipment	Model	manufacturer	Serial
Vibration testing system	GT1000M	FAMTECH	D1803072-1
Acceleration sensor	8703A250M5	KISTLER	5241941
Acceleration sensor	8703A250M5	KISTLER	5241944

1.2. Test condition

- 1) With the test unit securely fastened to the test table, set the test table for a double amplitude displacement of 0.015 inch.
- 2) Cycle the test table over a search range from 5 to 30 Hz and back within a period of 12.5 minutes.
- 3) Conduct the resonant frequency search in each of the three mutually perpendicular planes.
- 4) Note and record the resonant frequency determined from each plane.
 - a. In the event of more than one resonant frequency in a given plane, record the most severe a. resonance.
 - b. If resonant frequencies appear equally severe, record each resonant frequency.
 - c. If no resonant frequency occurs for a given plane within the prescribed range, 30 Hz shall be recorded.

1.3. Test Result

axis	Resonance check	recorded
X	none	30Hz
Y	none	30Hz
Z	none	30Hz

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2. Endurance Test

2.1. Test equipment

Test equipment	Model	manufacturer	Serial
Vibration testing system	GT1000M	FAMTECH	D1803072-1
Acceleration sensor	8703A250M5	KISTLER	5241941

2.2. Test condition

1. Vibrate the test unit in each plane at its resonant frequency for a period of 1 hour at an amplitude resulting in 0.5 g acceleration. (test profile)
2. When more than one resonant frequency has been recorded in accordance with Section 1.2 Item 4, the test period of 1 hour shall be divided equally between the resonant frequencies.
3. The total time of the endurance test shall be limited to 3 hours, 1 hour in each of three mutually perpendicular planes.

2.3. Check Item

- No mechanical damage.

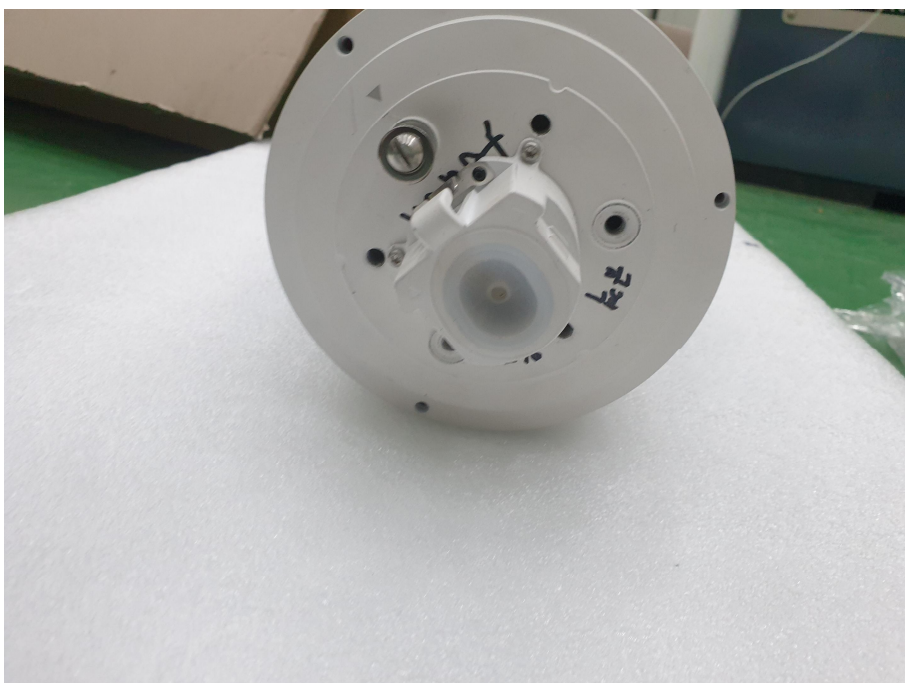
2.4. Test Result

- **Pass**

3. APPENDIX

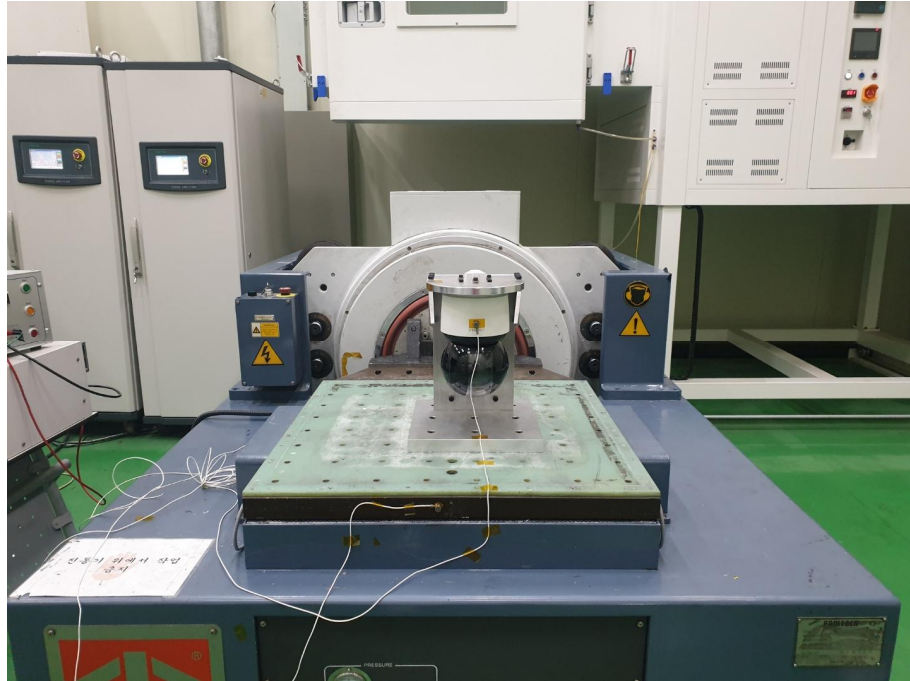
3.1. Products



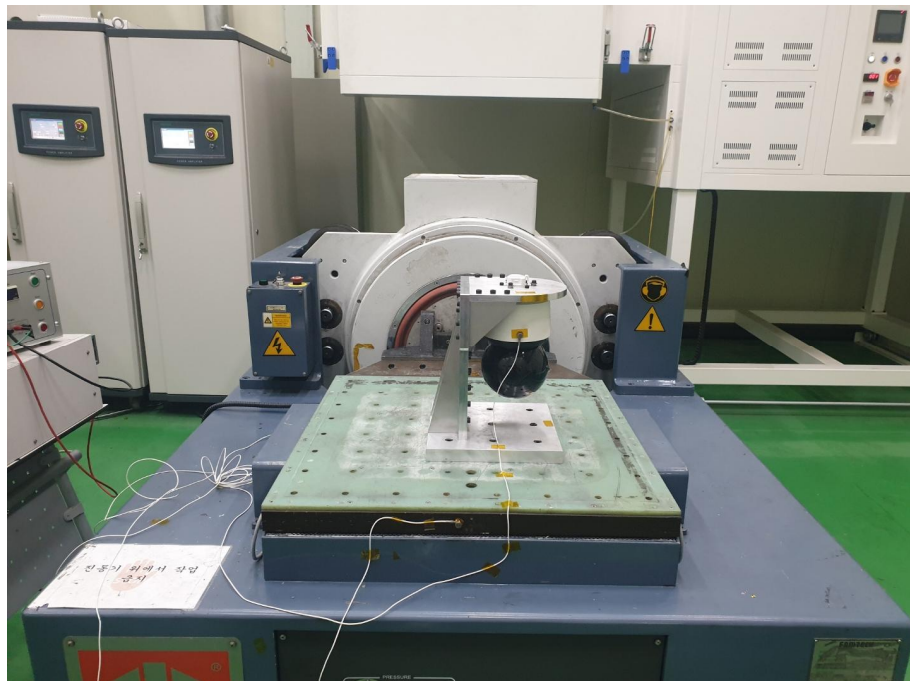


3.2. Test photos

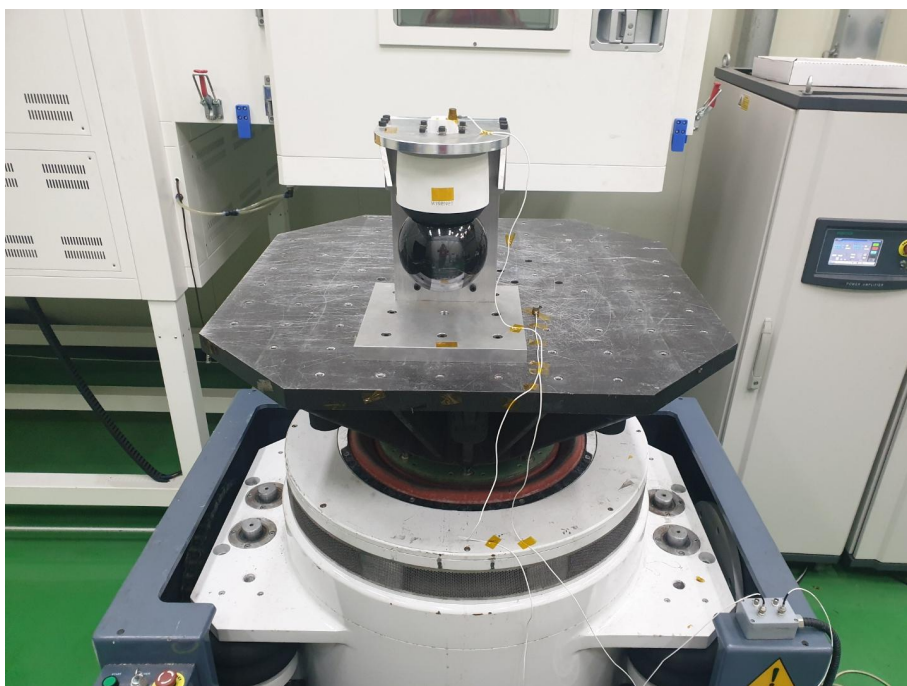
[X axis]



[Y axis]

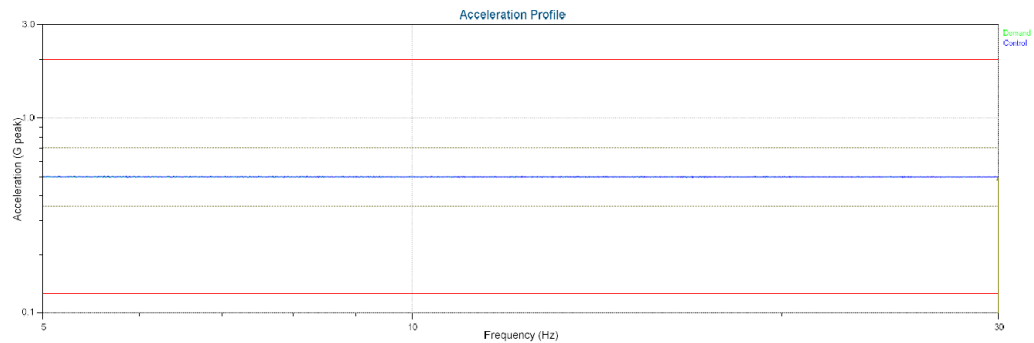


[Z axis]



3.3. Data

[Resonant search]



12 11, 2020 11:14:46 Level 1) 100 %

Output: 0.05374 Volts pea 공진시

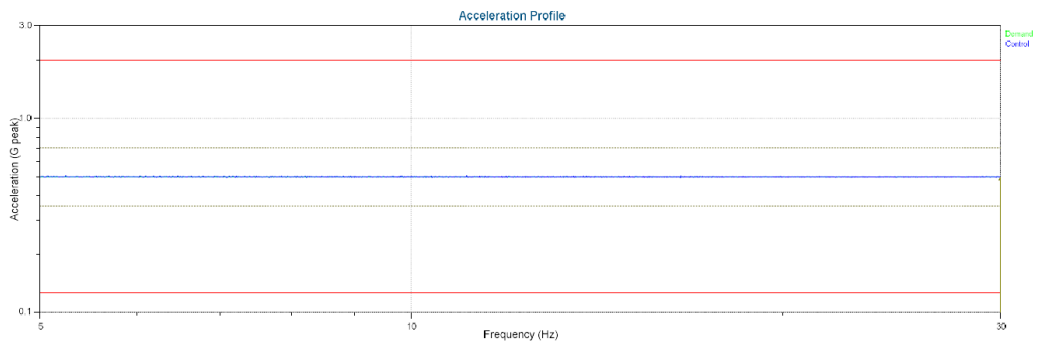
Demand: 0.5 G Level Time: 0:12:30

Frequency: 30 Hz

Control: 0.5002 G Total Time: 0:12:47

End of Sweep Test

[X axis]



12 11, 2020 13:40:56 Level 1) 100 %

Output: 0.05366 Volts pea 공진시

Demand: 0.5 G Level Time: 0:12:30

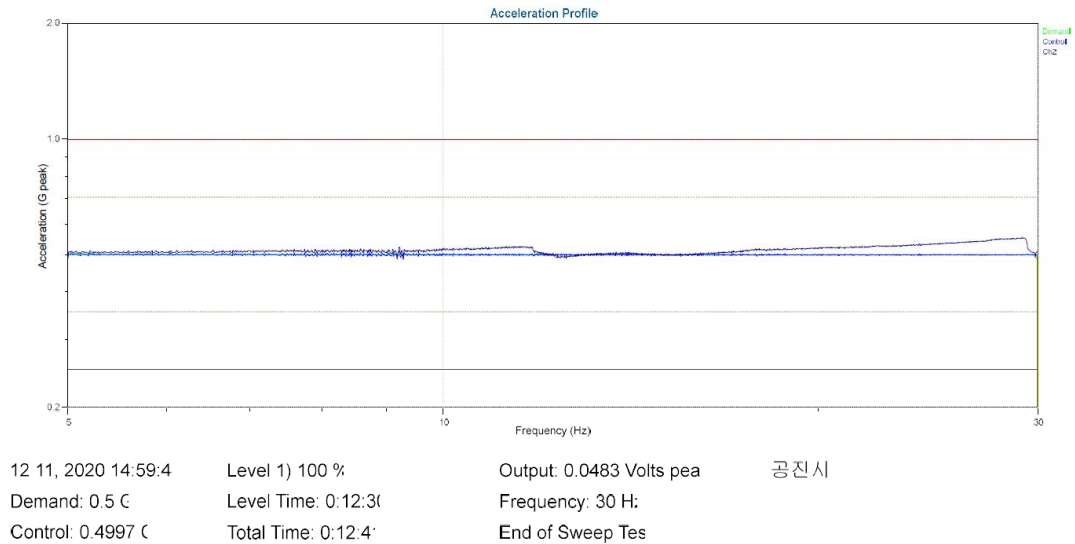
Frequency: 30 Hz

Control: 0.501 G Total Time: 0:12:42

End of Sweep Test

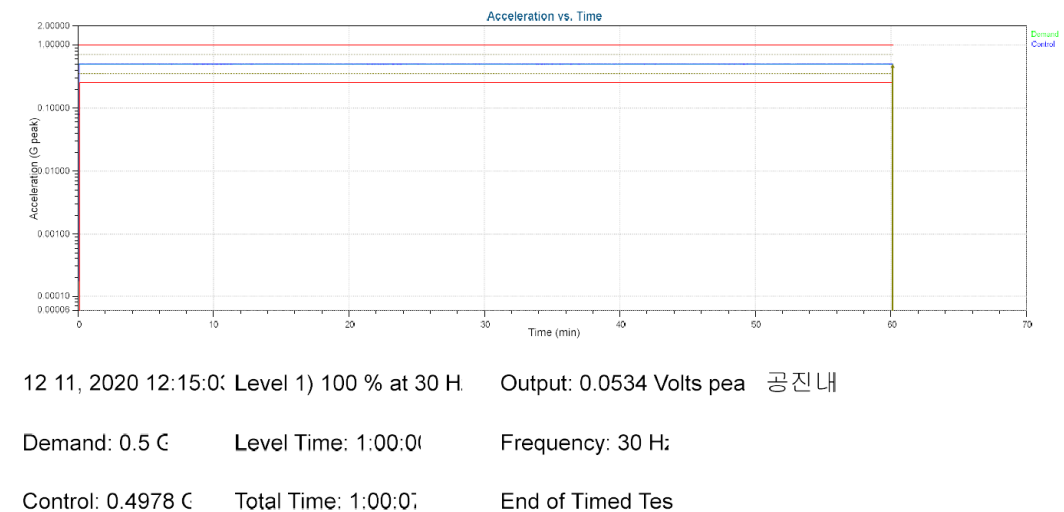
[Y axis]

[Resonant search]



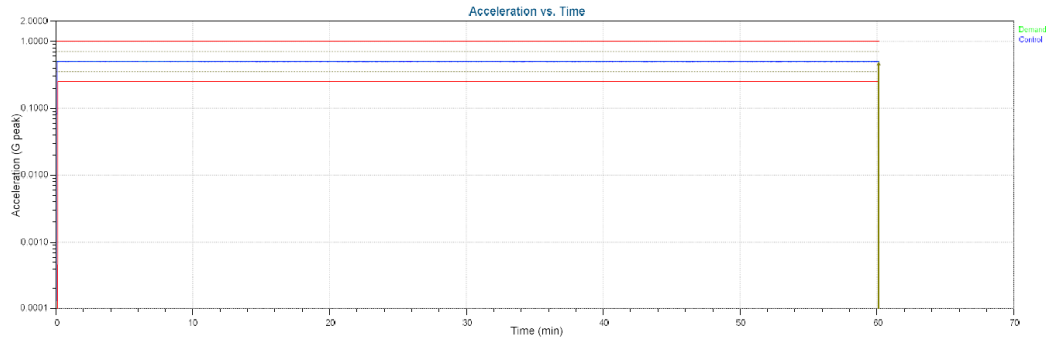
[Z axis]

[Endurance Test]



[X axis]

[Endurance Test]

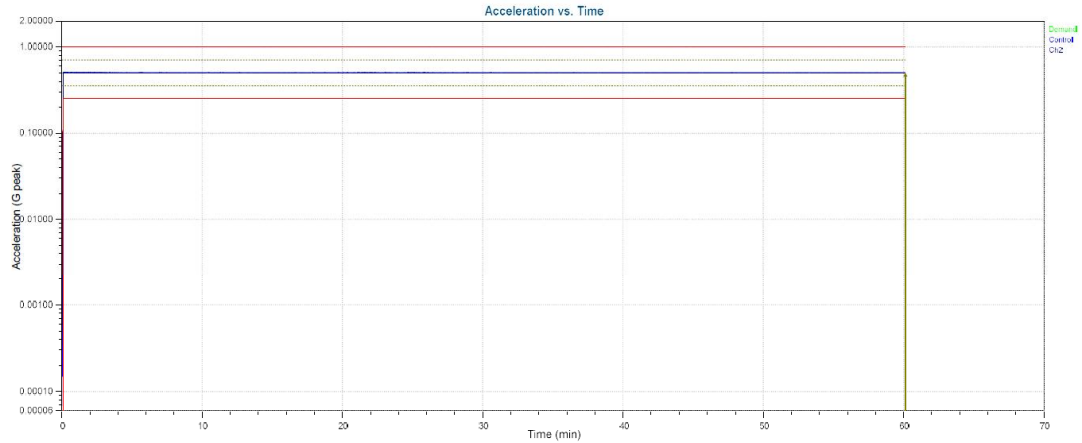


12 11, 2020 14:44:06 Level 1) 100 % at 30 Hz Output: 0.05319 Volts peak 공진내

Demand: 0.5 G Level Time: 1:00:00 Frequency: 30 Hz

Control: 0.4975 G Total Time: 1:00:00 End of Timed Test

[Y axis]



12 11, 2020 16:00:43 Level 1) 100 % at 30 Hz Output: 0.04853 Volts peak 공진내

Demand: 0.5 G Level Time: 1:00:00 Frequency: 30 Hz

Control: 0.4983 G Total Time: 1:00:00 End of Timed Test

[Z axis]