

TEST REPORT

 CTK Co., Ltd. The Power Leader of Global Regulatory Certification	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-2020-03175 Page (1) / (9) 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.....: 2020-07-24

2. Manufacturer

◦ Name: HANWHA TECHWIN (TIANJIN) CO.,LTD.

3. Use of Report: Quality control

4. Test sample / Model: NETWORK CAMERA / XNP-9300RW

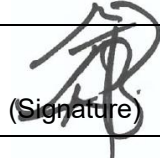
5. Date(s) of test: 2020-08-04 ~ 2020-08-05

6. Test Standard (Method) used.....: Requested Test Specification by applicant : NEMA TS 2-2013 [2.2.7.2 Test B : Transient Tests (Power Service) - 13. C.]

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: SooChan Bae  (Signature)	Technical Manager: YenHwang Jung  (Signature)
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2020-08-11

CTK Co., Ltd.



 CTK Co., Ltd. The Prime Leader of Global Regulatory Certification	CTK Co., Ltd. 449-100, 경기도 용인시 처인구 호동 386-1 Tel: +82-31-339-9970 Fax: +82-31-339-9855	성적서 번호: CTK-2020-03175 Page (2) / (9) pages	
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Test place

Institution name	CTK Co., Ltd.
Address	113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea

1. NEMA TS 2-2013

[2.2.7.2 Test B : Transient Tests(Power Service) - 13. C.]

1.1. Test equipment

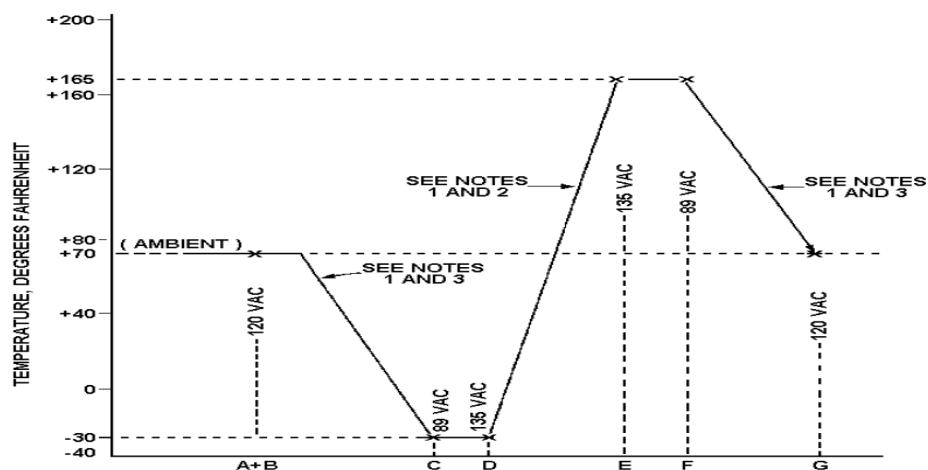
Test equipment	Model	manufacturer	Serial
Temperature chamber	EGNZ28-15NW	ESPEC	1738460

1.2. Test condition

Basic condition	Test condition
Sample state	Operating state
Application step	Step E – Step F
Applied voltage	Step E – Step F(135 Vac ~ 89 Vac)
Temperature / Humidity	74 °C = 165 °F
Test Time(h)	15 h

– Test methods

- The sample is placed in the chamber.
- NEMA TS 2-2013 [2.2.7.2 Test B: Transient Tests(Power Service)-13. C.] Apply power in step of application.
- Perform the temperature/humidity test according to NEMA TS 2-2013 [2.2.7.2 Test B: Transient Tests (Power Service)-13. C.].



[NEMA TS 2-2013[2.2.7.2 Test B : Transient Tests(Power Service) 13. C.] Test profile]

1.3. Check Item

- Check the operation before/during/after the test

1.4. Test Result

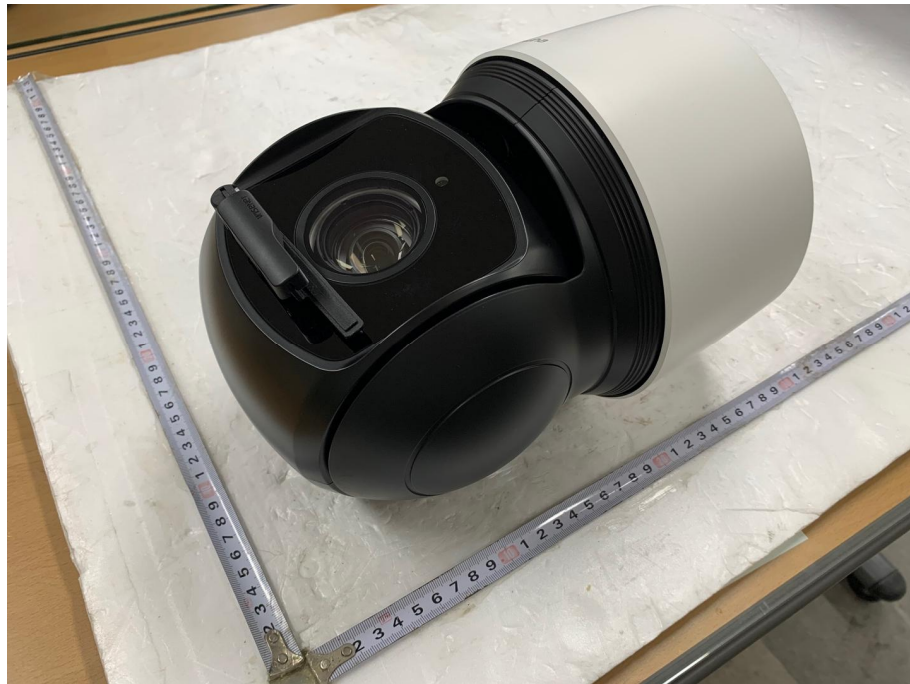
- Pass

Model description

Basic Model	XNP-9300RW
Series model	XNP-8300RW
Model differences	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.), differences in electronic parts inside the product.

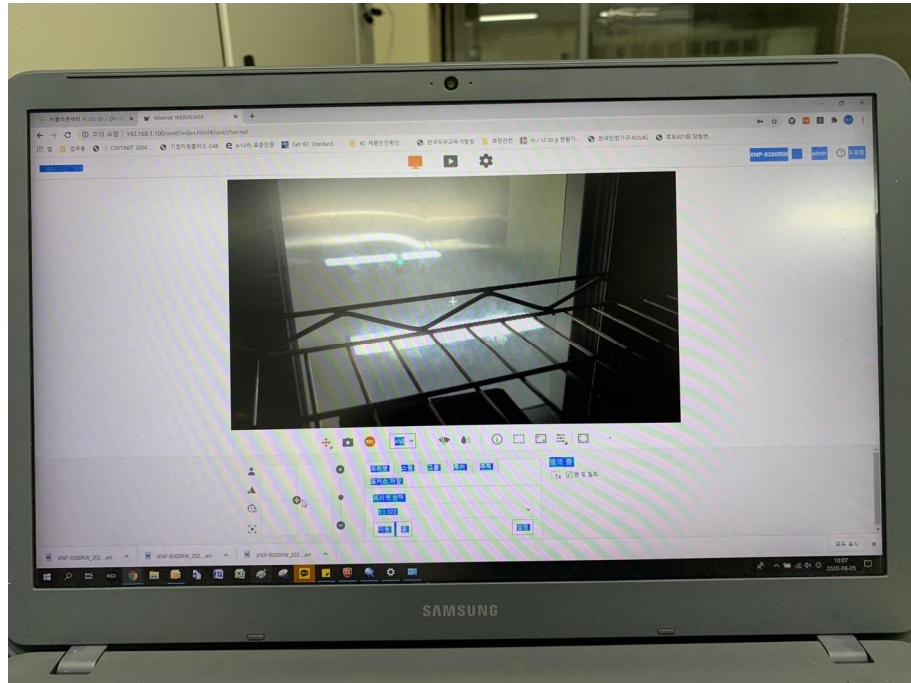
2. APPENDIX

2.1. Product Photographs

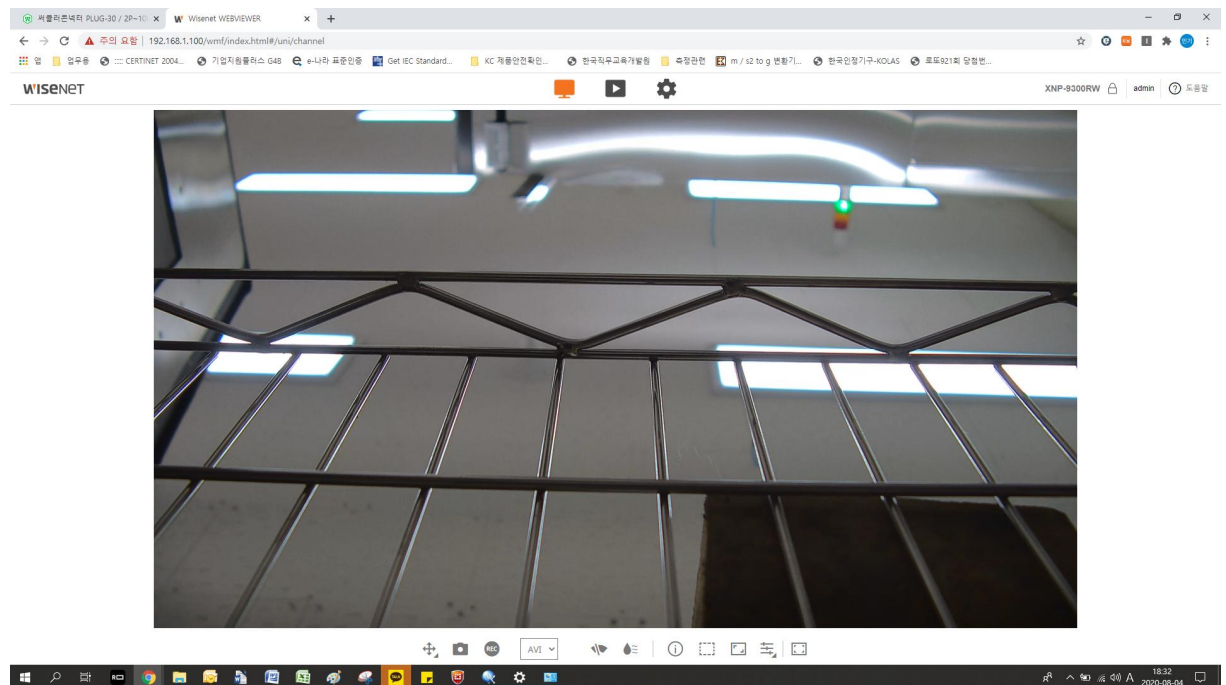


2.2. Test Setup Photos and Configuration





[Operation check before test (220Vac)]



[Operation check during test (135 Vac)]



CTK Co., Ltd.

449-100, 경기도 용인시 처인구 호동 386-1

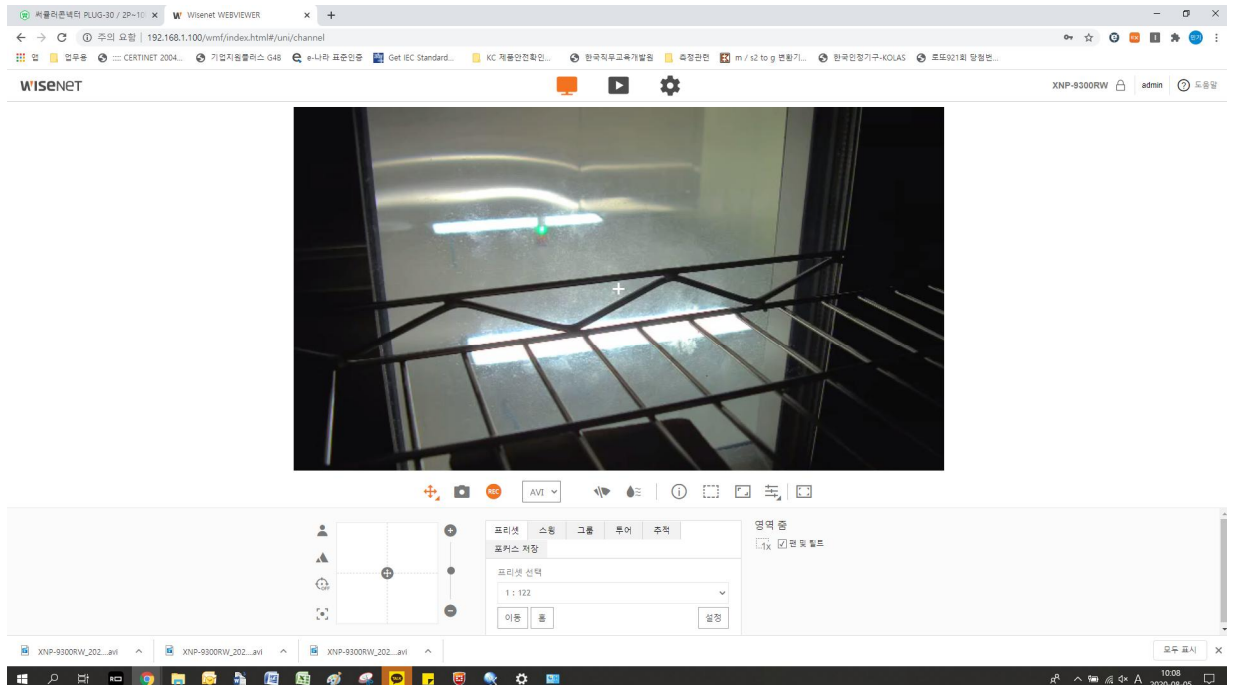
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[Operation check after test (89 Vac)]

3. APPENDIX

