

TEST REPORT

KCTL Inc.

52-20, Sinjeong-ro 41 beon-gil, Giheung-gu,
Yongin-si, Gyeonggi-do 446-599, Korea
Tel : 82-31-326-6700 Fax : 82-505-299-8311
www.kctl.co.kr

Report No.:
KR16-YYP0224

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1. Client

- Name : HANWHA TECHWIN Co., Ltd
- Address : 1204, Changwon-daero, Seongsan-gu, Changwon-si,
Gyeongsangnam-do, Korea
- Date of Receipt : 2016.12.19

2. Use of Report : For Quality evaluation

3. Name of Product and Model : Network Camera / XNV-8080R*
(* N: NTSC / P: PAL)

4. Manufacturer and Country of Origin : HANWHA TECHWIN (TIANJIN) CO., Ltd./ China

5. Date of Test : 2016-12-22

6. Test method used : IEC 62262: 2002 (IK 10)

7. Test Results : Refer to the test result in the test report

Affirmation	Tested by	Technical Manager
	Name : Jin-ho, Hwang (Signature)	Name : Do Hong, Choi (Signature)

2016-12-23

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As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.

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REPORT REVISION HISTORY

Date	Revision	Page No
2016-12-23	Originally issued	-

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1. Test Laboratory

1.1 General

Name of Test Laboratory	KCTL INC.
Address	52-20, Sinjeong-ro 41 beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do 446-599, Korea
TEL	82 31-326-6700
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Home page	www.kctl.co.kr

1.2 Certificate of Designated Testing Laboratory

Mark.	Registration No.
NRRA	KR0040
KOLAS	No. KT231
IEC(CB-Scheme)	TL512
TUV-SUD	CARAT 15 08 93040 001
VCCI Council	R-3327, C-3706, T-1849, G-198
DSP Research, Inc.	G039
FCC	Test Firm Registration No. 687132
INDUSTRY CANADA	Company Address Code: 8035A

2. Specification

2.1 Specification

Division	Specification
Product Name	Network Camera
Model Name	XNV-8080R* (*N: NTSC / P: PAL)

- Basic model: XNV-8080R* (* N: NTSC / P: PAL)
- Serise model: XNV-6080R*, XNV-6080*
- The basic model and series models are identical Hardware
- The model XNV-8080R* (*N: NTSC / P: PAL) was conducted tests representatively.

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2.2 Product Photograph



[Front]



[Rear]

3. Test Method and Result

3.1 IK10 Impacts Test

3.1.1 Test Equipment

Instrument description	Model	Manufacturer	Serial number	Due Cal
20J IMPACT ELEMENT	None	CERTIS	None	2016-12-05
Measuring Tape	3.5 m	Komelon	None	2018-07-07
Weighting Scale	DB-60H	CAS	IY1142	2017-02-28
Pendulum Hammer	20 J	None	None	2017-07-01

3.1.2 Date of Test: 2016-12-22

3.1.3 Environment: Temperature (25 ± 2) °C,
Relative Humidity (32 ± 2) % R.H
Air pressure (100 ± 1) kPa

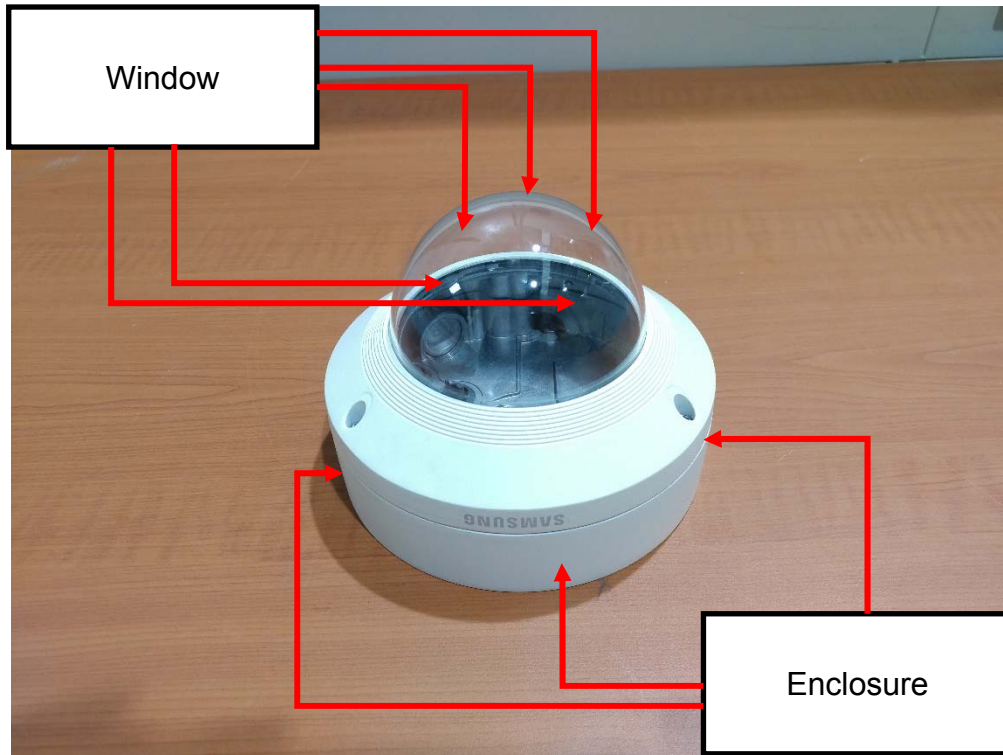
3.1.4 Test Conditions

- 1) Reference Documents: IEC 62262: 2002 (IK 10)
- 2) Energy: 20 Joule
- 3) Mass: 5.0 kg
- 4) Height: 400 mm
- 5) Location and number of impact: Window 5 impact, Enclosure 5 impacts
- 6) Pretreatment: None

3.1.5 Test Criteria

- 1) Visual inspection after impact test.
- 2) Check if Crack, separation occur.

3.1.6 Impact Zones



[Impact Zones 1]



[Impact Zones 2]

3.1.7 Test Result

Impact Zone: Window		
Impact #	Orientation	Results
Impact 1	Normal to surface of window.	No abnormal was found ※ Refer to 3.1.9
Impact 2	Normal to surface of window.	
Impact 3	Normal to surface of window.	
Impact 4	Normal to surface of window.	
Impact 5	Normal to surface of window.	

Impact Zone: Enclosure		
Impact #	Orientation	Results
Impact 1	Normal to surface of enclosure.	No abnormal was found ※ Refer to 3.1.9
Impact 2	Normal to surface of enclosure.	
Impact 3	Normal to surface of enclosure.	
Impact 4	Normal to surface of enclosure.	
Impact 5	Normal to surface of enclosure.	

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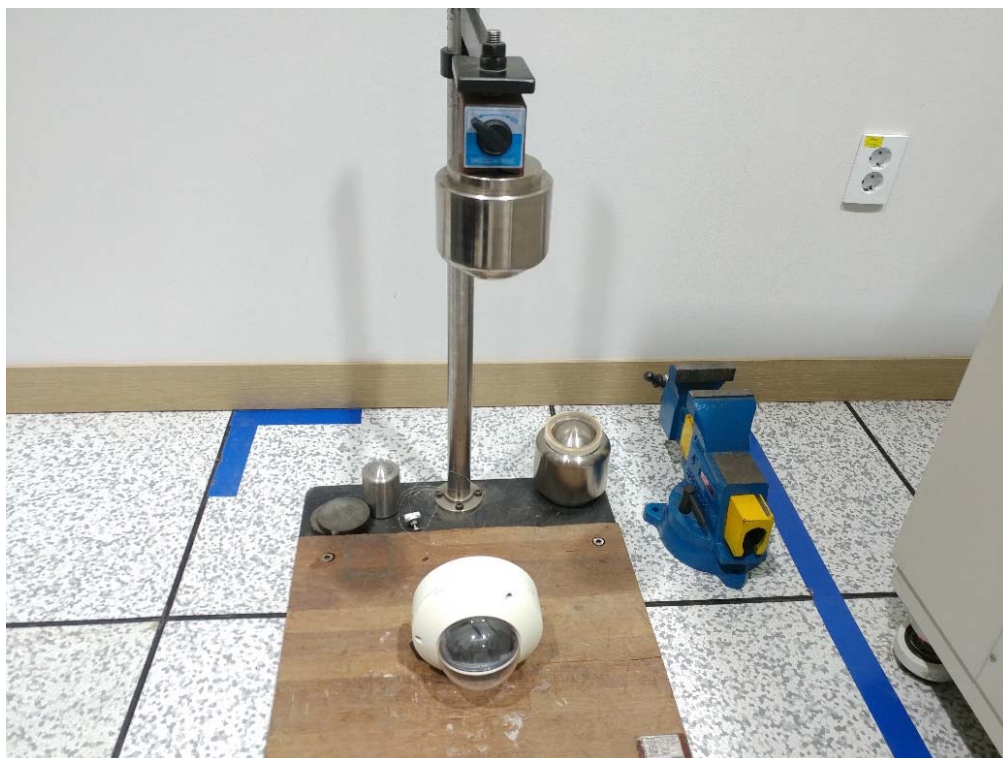
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3.1.8 TEST Photograph



[During the test_Window]



[During the test_Enclosure]

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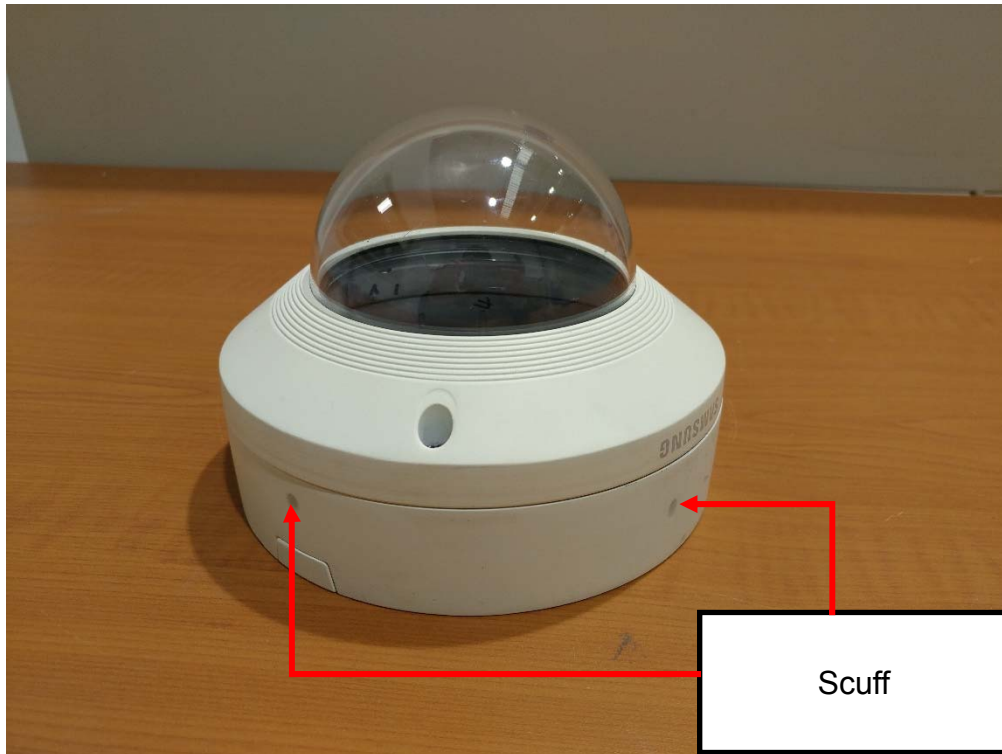
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3.1.9 Test Result Photograph



[Test result 1]



[Test result 2]

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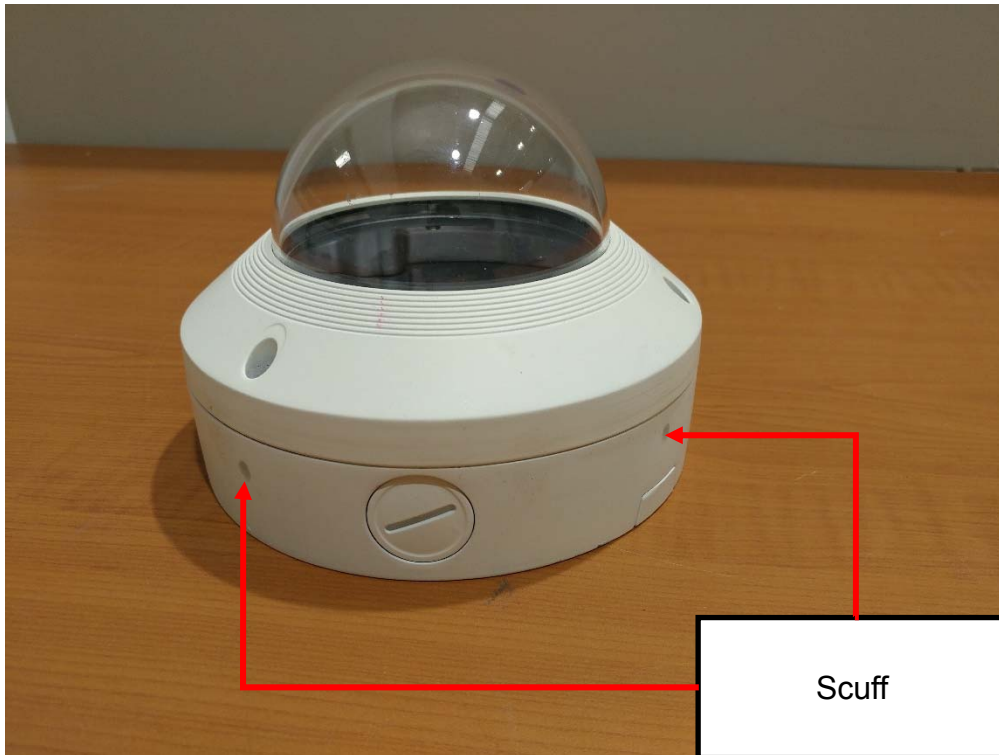
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[Test result 3]