



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.:
KR18-YYP0147

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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
HANWHA TECHWIN SECURITY VIETNAM CO.,LTD
/ Vietnam

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	Written by	Technical Manager
	Name: youngmin Jang (Signature)	Name: kyunghoon Ahn (Signature)

2018-03-27

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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(Report No.: KR16-YYP0224)	-
2018-03-27	Add series model, Add manufacturer	1, 4

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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
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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. Product (EUT)

2.1 Specification

Division	Specification
Product Name	Network Camera / XNV-8080R*
Model Name	XNV-8080R* (* N: NTSC / P: PAL)
Series Model	XNV-6080R*, XNV-6080*, XNV-L6080R, XNV-L6080

- 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	-
Pendulum Hammer	5 J	None	None	2017-07-01
Measuring Tape	3.5 m	Komelon	None	2018-07-07
ELECTRONIC BALANCE	DB-60H	CAS	IY1142	2017-02-28

3.1.2 Date of test / Environment of test

- 1) 2016-12-22
- 2) Temperature (25 ± 2) °C, Relative Humidity (32 ± 2) % R.H., Air pressure (100 ± 1) kPa

3.1.3 Test Conditions

- 1) Test Method used: IEC 62262: 2002 (IK10)
- 2) Energy: 20 J
- 3) Mass: 5.0 kg
- 4) Height: 400 mm
- 5) Location and number of impact: Window 5 impacts, Enclosure 5 impacts

3.1.4 Test Criteria

- 1) Visual inspection after impact test (Damage, crack, separation occur)
- 2) Protected against access to hazardous parts

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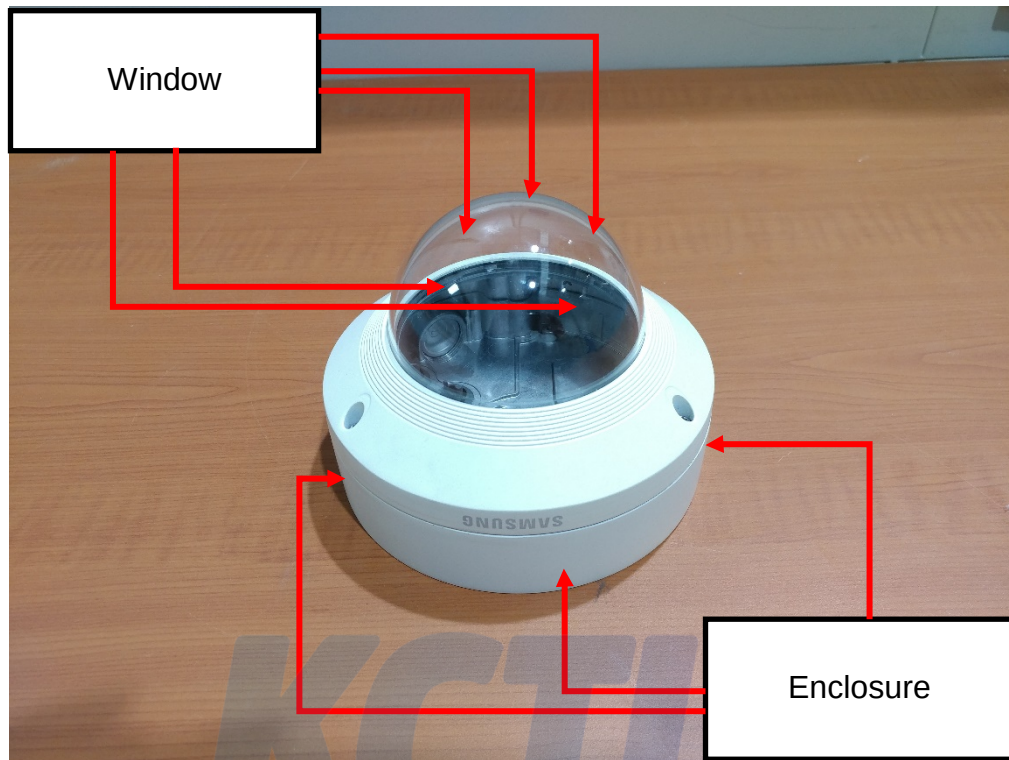
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3.1.5 Impact Position



[Impact Position 01]



[Impact Position 02]

3.1.6 Test Results

Check List	Test Result
1. Window part - Visual inspection after impact test (Damage, crack, separation occur) - Protected against access to hazardous parts 2. Enclosure part - Visual inspection after impact test (Damage, crack, separation occur) - Protected against access to hazardous parts	No abnormal was found (Refer to 3.1.8)

※ Allow extent of damage: Scratch



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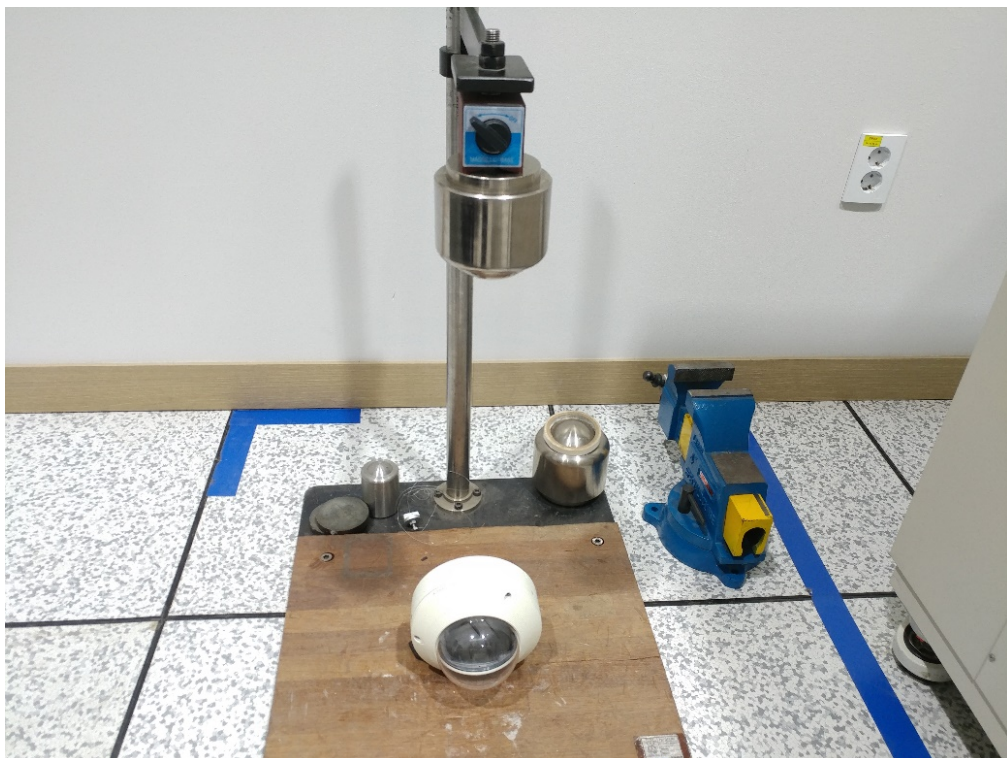
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3.1.7 TEST Photograph



[During the test_Window]



[During the test_Enclosure]

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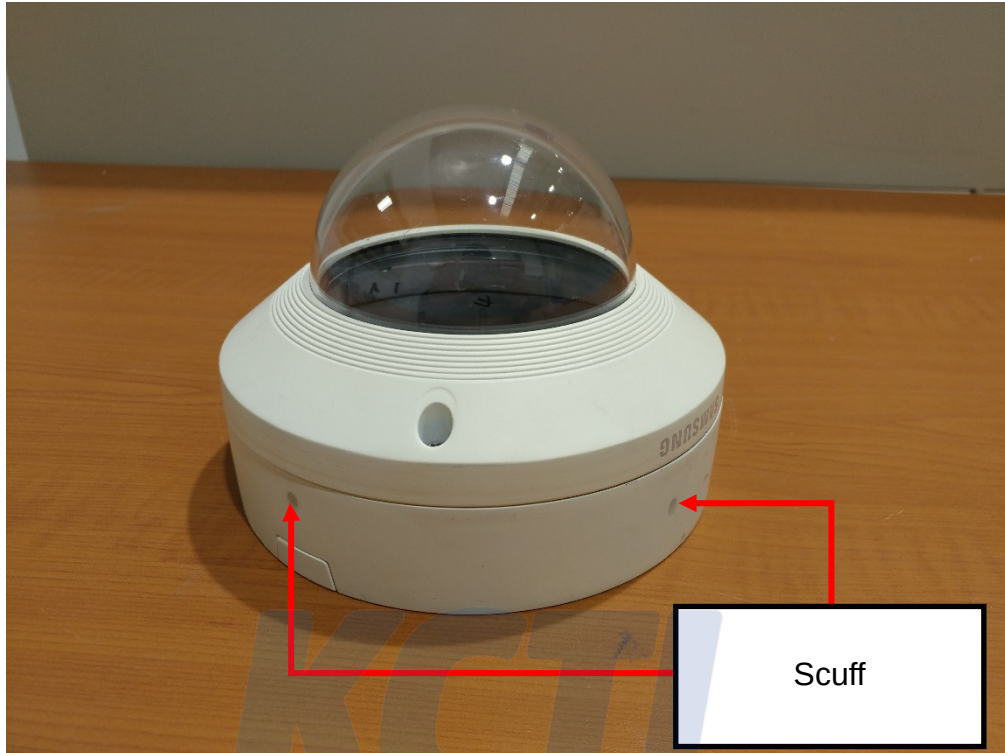
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3.1.8 Test Result Photograph



[Test result confirmation 01]



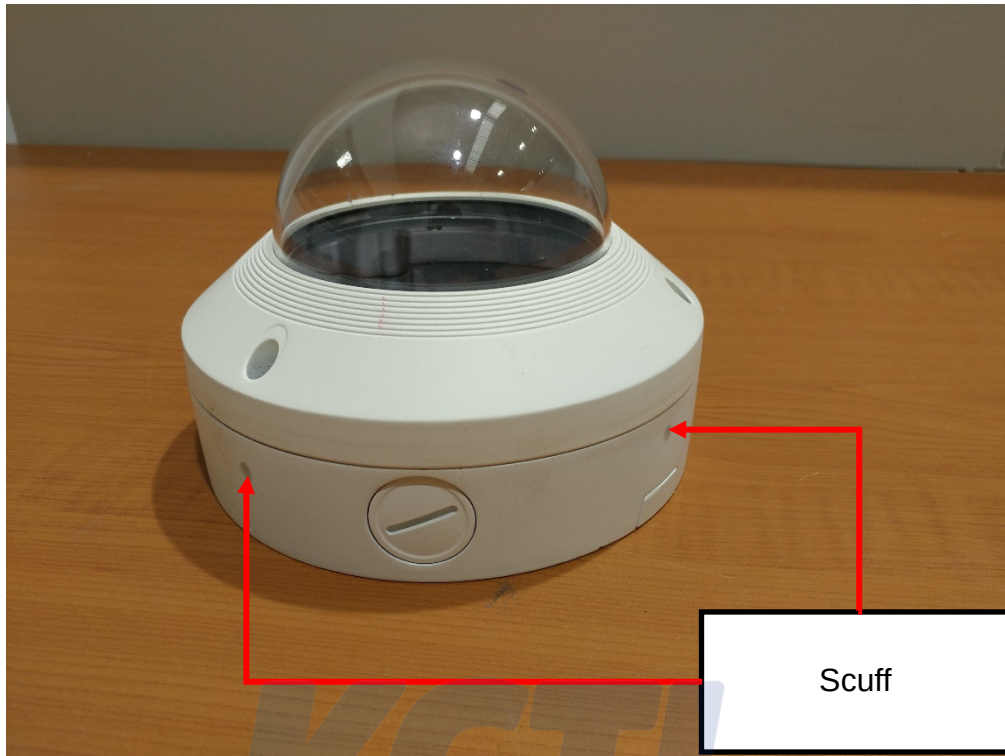
[Test result confirmation 02]

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[Test result confirmation 03]