

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-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 : 2016-11-07

2. Use of Report : For Quality management

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

4. Manufacturer and Country of Origin : Hanwha Techwin Co., Ltd / Korea

5. Date of Test : 2016-11-10

6. Test method used : IEC 62262: 2005

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

Affirmation	Tested by	Technical Manager
	Name : Young Min, Jang (Signature)	Name : Do Hong, Choi (Signature)

2016-11-15

KCTL Inc.

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.

REPORT REVISION HISTORY

Date	Revision	Page No
2016-11-15	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
FAX	82 505-299-8311
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. Test equipment

2.1 Specification

Division	Specification
Product Name	Network Camera
Model Name	XND-8080RV* (*N: NTSC / P: PAL)
Etc.	-

- Basic model: XND-8080RV*
- Series model: XND-6080V*, XND-6080RV*
- The basic model and series models are identical Hardware
- The model XND-8080RV* was conducted tests representatively.

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2.2 Product Photograph



[Sample]

3. Test Summary

Test Method	Test Item	Test Result
IEC 62262: 2005	Impacts Test (IK08)	No abnormal was found

4. Test Method and Result

4.1 IK08 Impacts Test

4.1.1 Test Equipment

Instrument description	Model	Manufacturer	Serial number	Due Cal
5J IMPACT ELEMENT	N/A	CERTIS	N/A	2016. 12. 05
Measuring Tape	3.5 m	Komelon	N/A	2018. 07. 07
ELECTRONIC BALANCE	DB-60H	CAS	IY1142	2017. 02. 28
Pendulum Hammer	N/A	N/A	N/A	N/A

4.1.2 Test Environment: Temperature (15 ~ 35) °C, Humidity (25 ~ 75) %
Air pressure (86 ~ 106) kPa

4.1.3 Reference Documents

IEC 62262 and IEC 60068-2-75

Degrees of protection provided by enclosure for electrical equipment against external mechanical impacts (IK code)

4.1.4 Test Performed

Degree of protection provided by enclosure for external impacts IK08

4.1.5 Test Conditions

According to standard IEC 62262 and IEC 60068-2-75

The verification of IK10 has been done positioning the enclosure on a rigid support.

5 impacts have been applied on each surface in sight with the enclosure.

For the test used Pendulum Hammer

IK08 (Characteristics of impact test):

Energy: 5 Joule

Mass: 1.7 kg

High Δh: 300 mm

Allow extent of damage: Allow the damage of enclosure some crack

4.1.6 Test Criteria

Visual inspection after impact test.

Check if breakage, Crack, separation occur.

Protection against direct contact

4.1.7 Drop Zones:

The areas that were focused upon for this impact test are as follows:

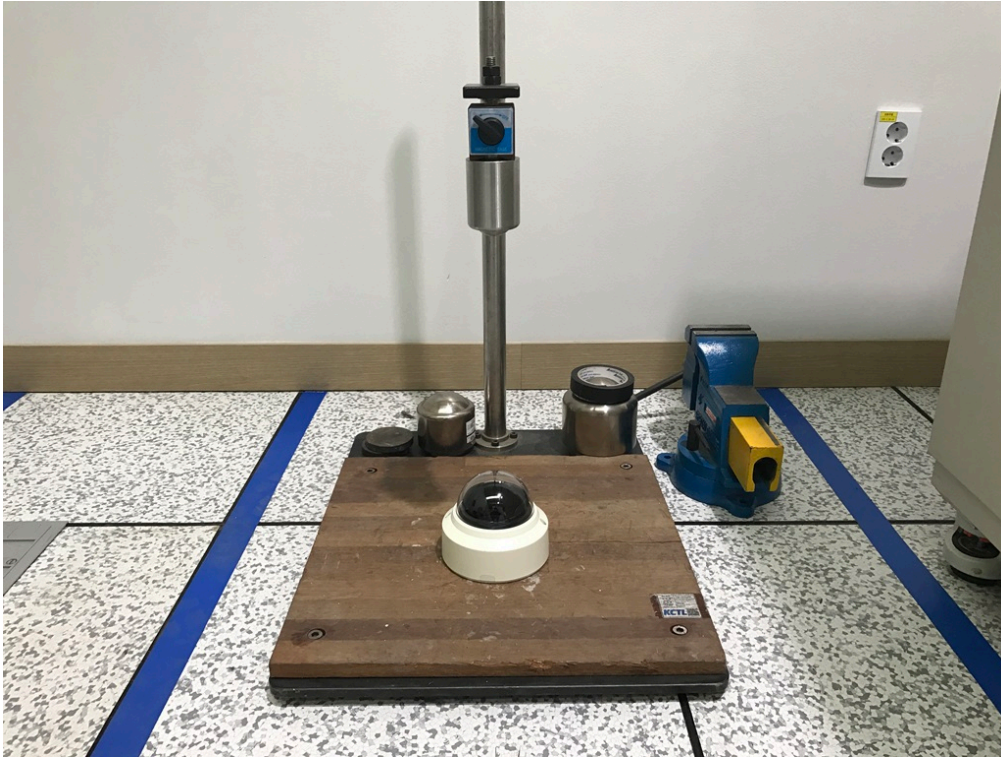


4.1.8 Test Results

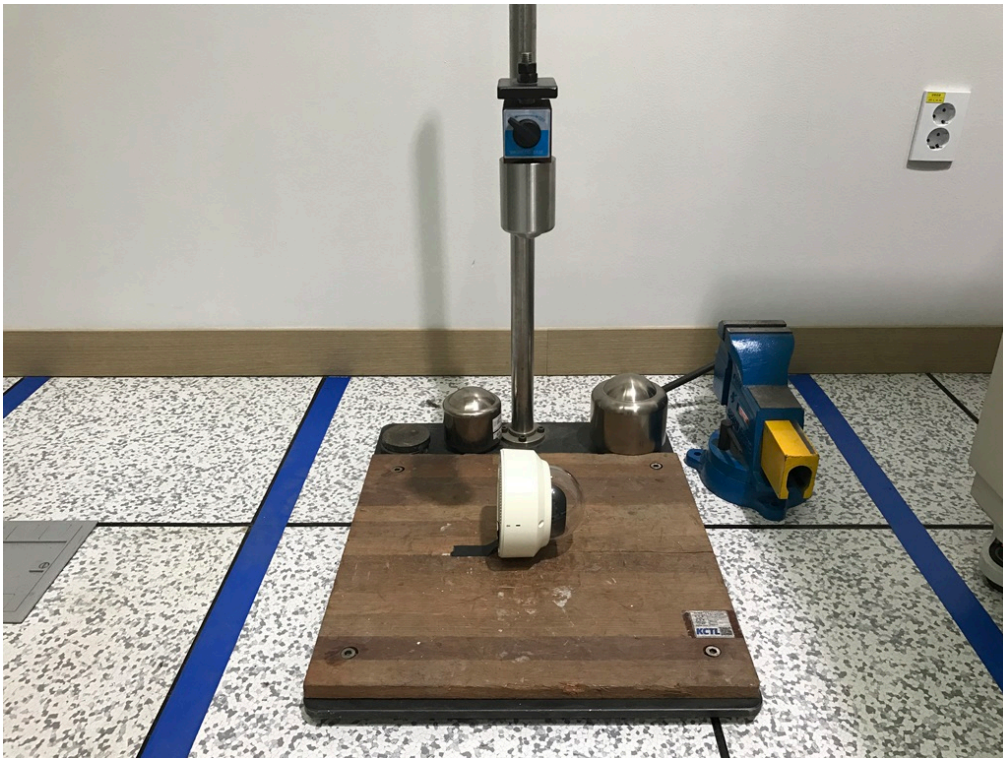
Drop Zone: Window		
Drop #	Orientation	Results
Drop 1	Vertical drop onto center of Window.	No abnormal was found

Drop Zone: Enclosure		
Drop #	Orientation	Results
Drop 1	Normal to surface of enclosure.	No abnormal was found
Drop 2	Normal to surface of enclosure, about 90° circumferentially from previous drop.	
Drop 3	Normal to surface of enclosure, about 90° circumferentially from previous drop.	
Drop 4	Normal to surface of enclosure, about 90° circumferentially from previous drop.	
Drop 5	Normal to surface of enclosure, about 90° circumferentially from previous drop.	

4.1.9 TEST Photograph



[During the test_Window]



[During the test_Enclosure]

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3.1.10 Test Result Photograph



[Test result_Enclosure]