

TEST REPORT

**CTK Co., Ltd.**

5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea
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REPORT No.:
CTK-2019-01653-2
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1. Applicant

- Name : Hanwha Techwin Co., Ltd.
- Address : Hanwha Techwin R&D center, 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488 KOREA
- Date of Receipt : 2019-04-13

2. Manufacturer

- Name : Hanwha Techwin Co., Ltd.

3. Use of Report : Quality control**4. Test sample / Model** : NETWORK CAMERA / QNV-7030R**5. Date(s) of test** : 2019-04-16**6. Test Standard (Method) used** : KS C IEC 62262: 2005**7. Testing Environment** : Temperature: (20.0 ± 1.0) °C, Humidity: (50.0 ± 1.0) %R.H**8. Test Results** : Refer to each test items**9. Location of Test** : ☒ Permanent Testing Lab ☐ On Site Testing
(Address : 142, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

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
	Min-Gi Mun  (Signature)	Manager:  WonHyeon Choi (Signature)

Remark, This report is not related to KOLAS accreditation and relevant regulation.

2022-04-15

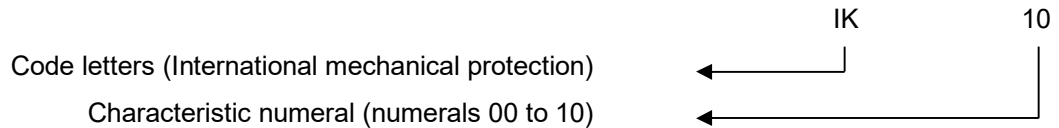
CTK Co., Ltd.



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

1.1 Test standard: KS C IEC 62262: 2005

1.2 Arrangement of the IK code



1.3 Vertical Hammer

1.3.1 Test equipment

Equipment	Model	Manufacturer	Serial
Vertical Hammer	50J	Kingpo	TX028-4

1.3.2 Test condition

IK code	Impact Energy (J)	Equivalent mass (kg)	Drop height (mm ± 1%)	Application
00	Non-protected	-	-	☐
01	0.14	0.25	56	☐
02	0.20	0.25	80	☐
03	0.35	0.25	140	☐
04	0.50	0.25	200	☐
05	0.70	0.25	280	☐
06	1.00	0.25	400	☐
07	2.00	0.50	400	☐
08	5.00	1.70	300	☐
09	10.00	5.00	200	☐
10	20.00	5.00	400	☒
- Impact times: five times for each of the exposed surface. (Do not impact more than 3 times in the same spot)				

1.3.3 Check Item

- External protection Enclosure damage check (except accessories not related to outer protection function)

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1.3.4 Test Result

Item	Contents	Result
External protection Enclosure	No damage	Pass
Comment Some scratches were generated on the outside of the product.		

Manufacturer's name

Name and address of factory (ies)	1) HANWHA TECHWIN SECURITY VIETNAM CO.,LTD Lot O-2, Que Vo Industrial Zone extended area, Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam 2) D-TECH CO.,LTD. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex)
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Model description

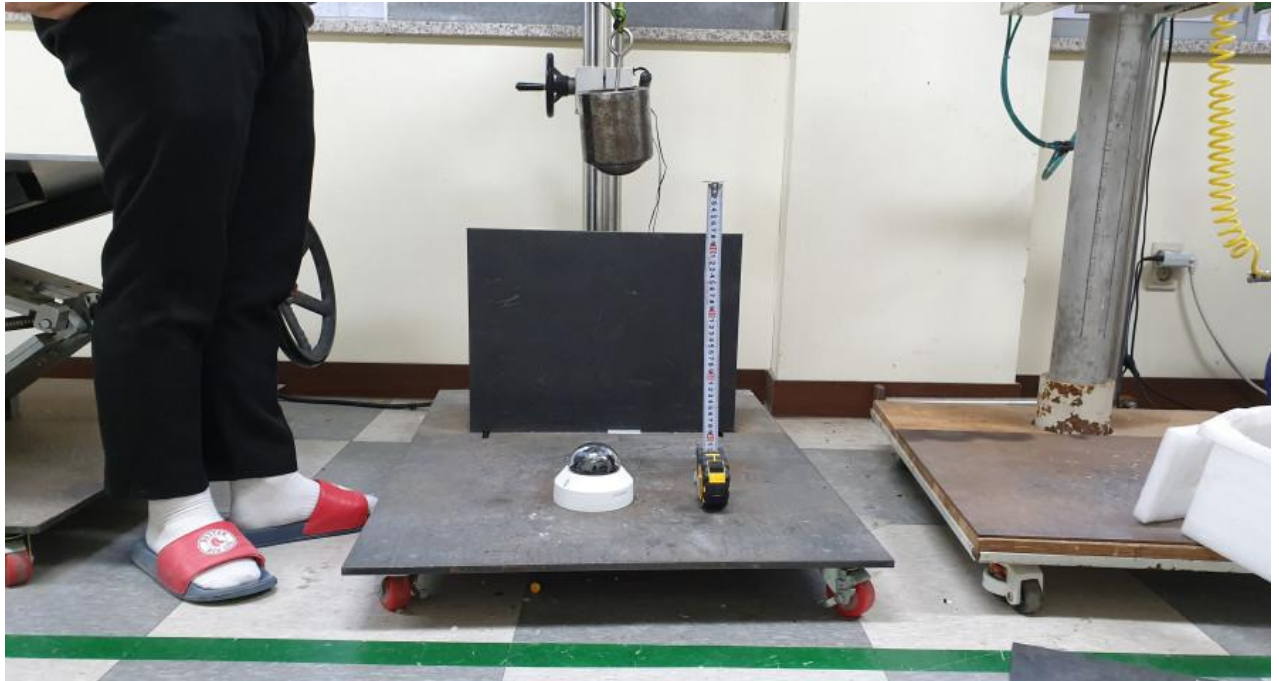
Basic Model	QNV-7030R
Series model	QNV-7020R,QNV-7010R,QNV-6010R,QNV-6020R,QNV-6030R QNV-6012R,QNV-6022R,QNV-6032R,QNV-8010R,QNV-8020R QNV-8030R, QNV-6012R1, QNV-6022R1, QNV-6032R1, QNV-7012R, QNV-7022R, QNV-7032R
Model differences	Use of the same external shape and materials (case, finishing material, PCB, cable, etc.), differences in electronic parts inside the product.

2. Attachment

2.1 Products



2.2 Test photos

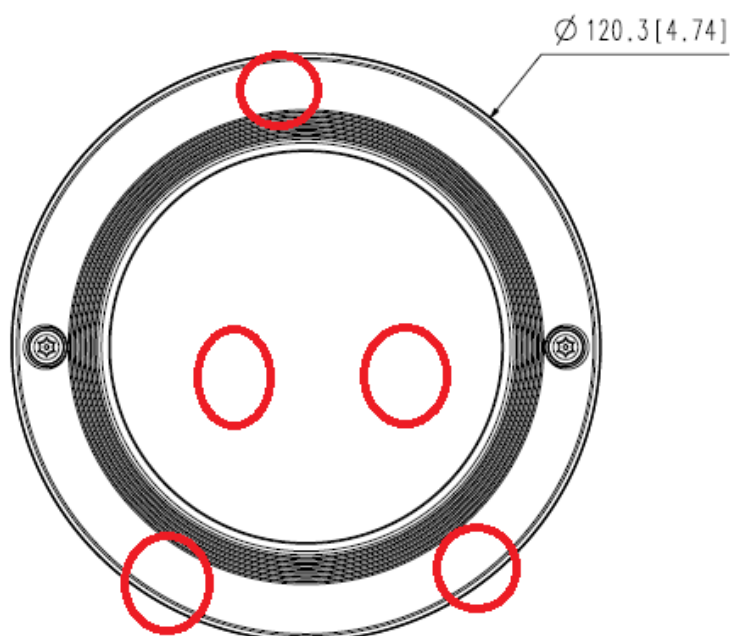
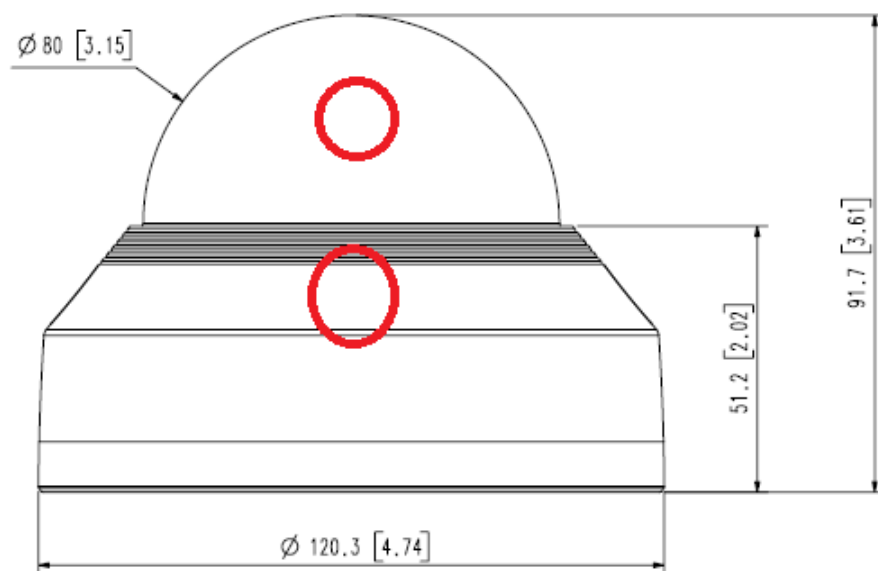


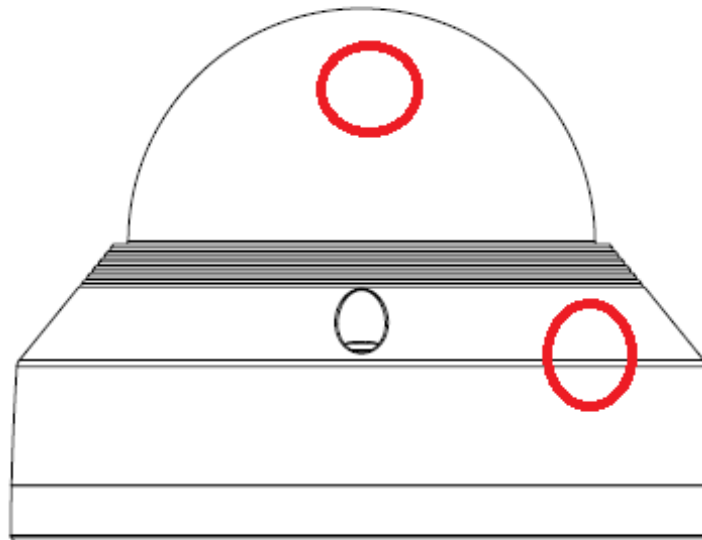
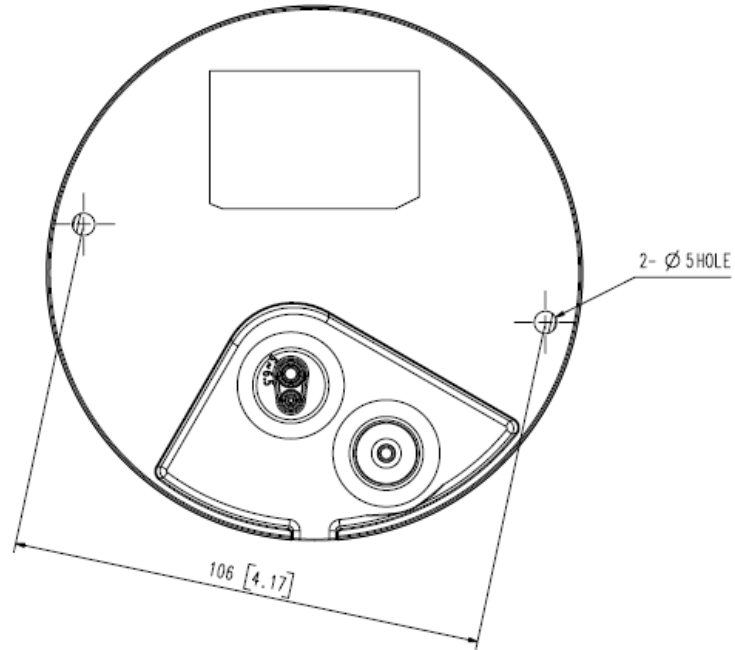
2.3 Photos after test

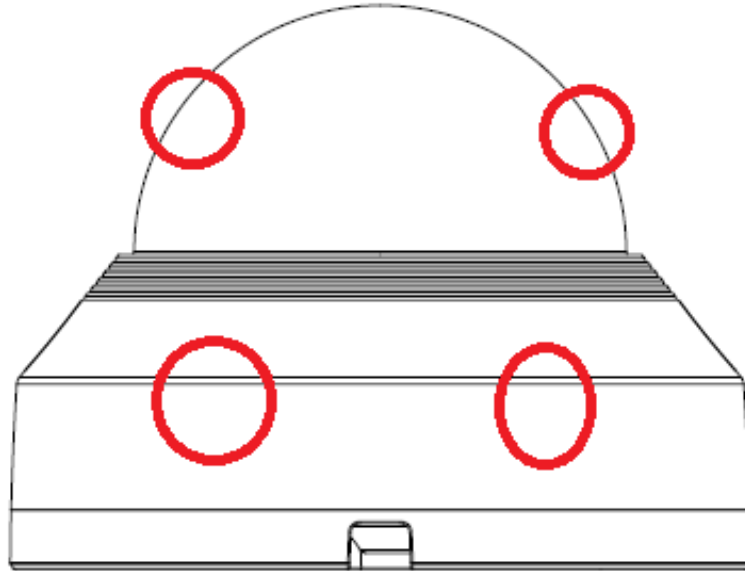




2.4 Enclosure Dimensions or Impact point (Unit: mm)







- End -