

TEST REPORT



CTK Co., Ltd.

5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Report No.:
CTK-2023-00247
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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 : 2023-01-05

2. Manufacturer

◦ Name : Hanwha Techwin Co., Ltd

3. Use of Report

: Quality control

4. Test sample / Model

: NETWORK CAMERA / QNV-C9083R

5. Date(s) of test

: 2023-01-25

6. Location of Test

: ☒ Permanent Testing Lab ☐ On Site Testing
(Address: 5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

7. Test Standard (Method) used

: KS C IEC 62262: 2005

8. Testing Environment

: Temperature: (25.0 ± 5) °C,
Humidity: (40.0 ± 5) % R.H.

9. Test Results

: Refer to each test items

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This Test Report cannot be reproduced, except in full.

Affirmation	Tested by	Technical Manager
	Mingi Moon  (Signature)	SooChan Bae  (Signature)

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

2023-01-30

CTK Co., Ltd



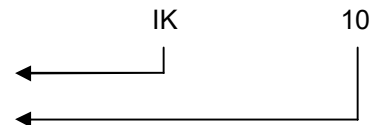
1. Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

1.1. Test standard: KS C IEC 62262: 2005

1.2. Arrangement of the IK code

Code letters (International mechanical protection)

Characteristic numeral (numerals 00 to 10)



1.3 Vertical Hammer

1.3.1 Test equipment

Equipment	Model	Manufacturer	Serial	Application
Spring impact hammer	Spring impact hammer (IEC 60068-2-75)	Kingpo Technology Development Limited	KP-SH05	☐
Vertical Hammer Tester	Vertical Hammer	Kingpo technology Development Limited	0190605A01002	☒
Vertical Hammer	20J	Kingpo	TX028-3	☒

1.3.2 Test condition

IK code	Impact Energy (J)	Equivalent mass (kg)	Drop height (mm $\pm$ 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)				

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1.3.3 Check Item

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

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.		

Model description

Basic Model	QNV-C9083R
Series Model	QNV-C8083R
Model differences	Sensor resolution difference QNV-C9083R : 4K QNV-C8083R : 5M

Manufacturer's name

Name and address of factory (ies)	D-TECH CO.,LTD. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex) 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
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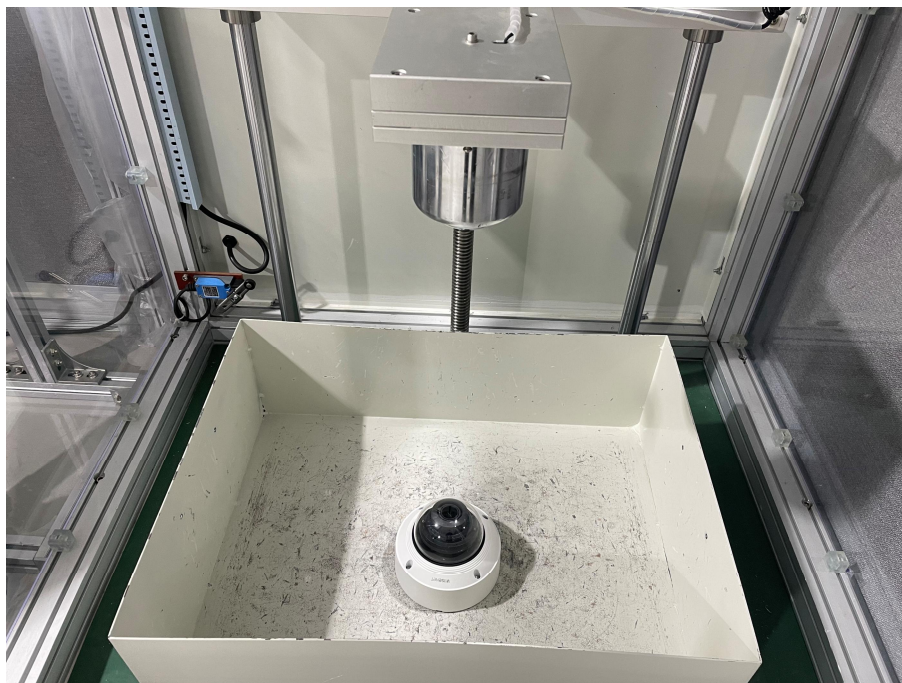
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2. APPENDIX

2.1. Product Photographs



2.2. Test photos



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2.3. Photos after test







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2.4. Enclosure Dimensions or Impact point (Unit: mm)





2.5. Enclosure Dimensions or Impact point (Unit: mm)

