

TEST REPORT

 CTK Co., Ltd. The Prime Leader of Global Regulatory Certification	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-2019-01685-1 Page (1) / (11) pages	
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1. Client

- 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.
- Address : Hanwha Techwin R&D center, 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13488 KOREA

3. Use of Report : Quality control

4. Test Sample / Model: NETWORK CAMERA / QNE-8021R

5. Date of Test : 2019-04-18

6. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

(Address : 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

7. Test Standard (method) used : KS C IEC 60529:2013

8. Testing Environment: Temperature: (20.0 ± 1.0) °C, Humidity: (50.0 ± 1.0) %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
	Min-Gi Mun :  (Signature) Test Engineer	WonHyeon Choi :  (Signature) Technical Manager

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

2022-03-23

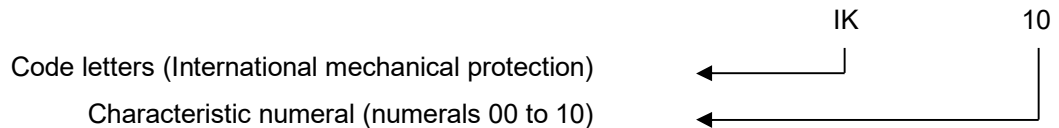
CTK Co., Ltd



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	20J	Kingpo	TX028-3

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) D-TECH CO.,LTD. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea (Suwon Industrial Complex) 2) 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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Model description

Basic Model	QNE-8021R
Series model	QNE-8011R, ANE-L6012R, ANE-L7012R
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



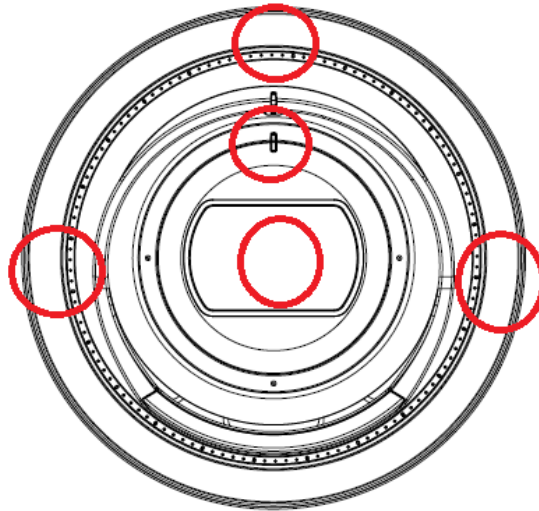
2.3 Photos after test



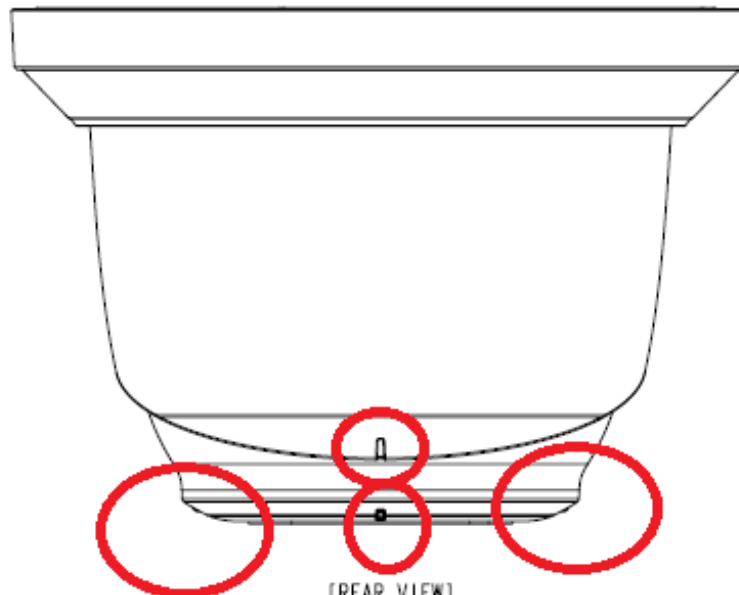




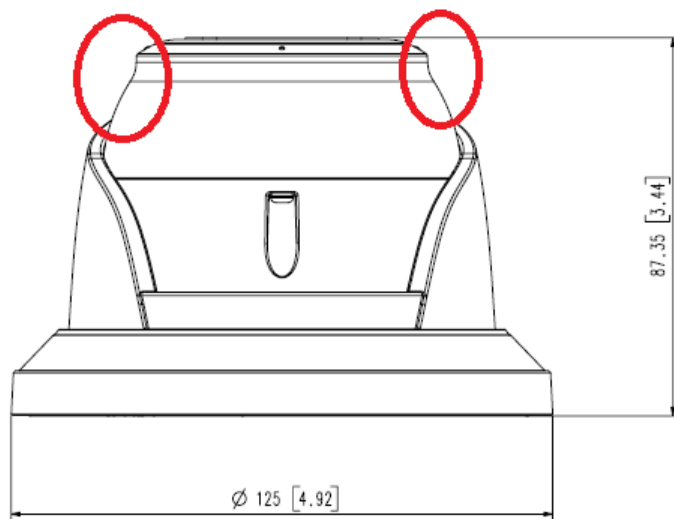
2.4 Enclosure Dimensions or Impact point (Unit: mm)



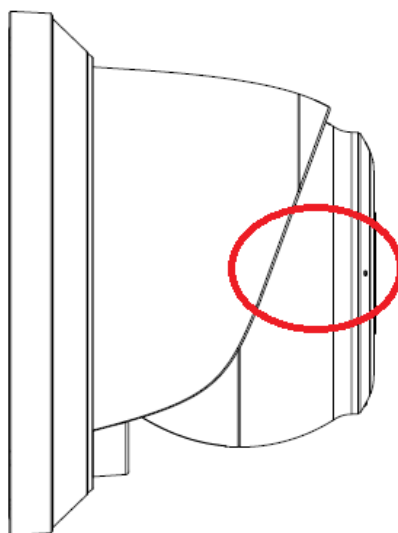
[TOP VIEW]



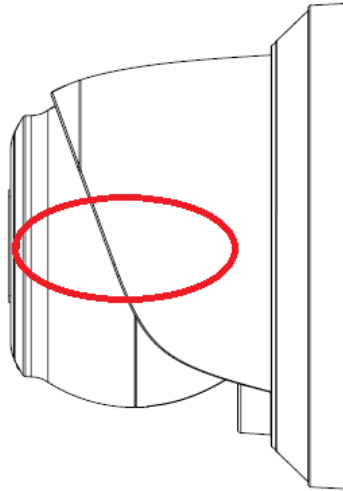
[REAR VIEW]



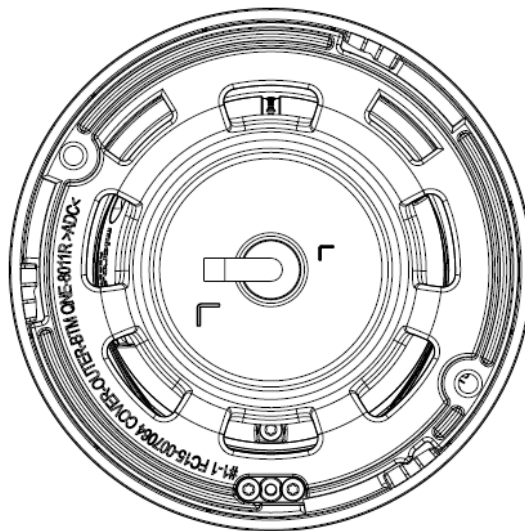
[FRONT VIEW]



[LEFT VIEW]



[RIGHT VIEW]



[BOTTOM VIEW]