


TEST REPORT

 CTK Co., Ltd. <small>The Power Leader of Global Regulatory Compliance</small>	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-2023-02289 Page (1) / (15) pages	
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1. Applicant

- Name : Hanwha Vision Co., Ltd
- Address : 6 Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, 13488 KOREA
- Date of Receipt : 2023-10-16

2. Manufacturer

- Name : Hanwha Vision Co., Ltd

3. Use of Report

: Quality control

4. Test sample / Model

: NETWORK THERMAL CAMERA / TNO-C3032TRA

5. Date(s) of test

: 2023-10-18

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 HyungUk Jeon (Signature)	Technical Manager SooChan Bae (Signature)
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Remark. This report is not related to KOLAS accreditation and relevant regulation.

2023-10-24

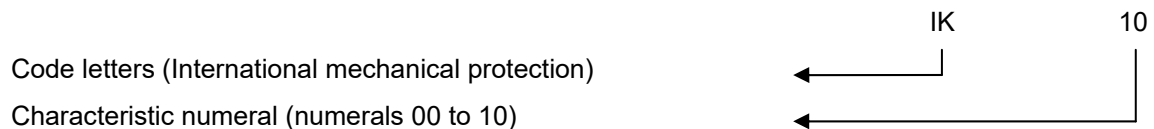
CTK Co., Ltd



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	Application
Vertical Hammer Tester	Vertical Hammer	Kingpo	0190605A01002	<input checked="" type="checkbox"/>
Vertical Hammer	20J	Kingpo	TX028-3	<input checked="" type="checkbox"/>

1.3.2 Test condition

IK code	Impact Energy (J)	Equivalent mass (kg)	Drop height (mm ± 1%)	Application
00	Non-protected	-	-	<input type="checkbox"/>
01	0.14	0.25	56	<input type="checkbox"/>
02	0.20	0.25	80	<input type="checkbox"/>
03	0.35	0.25	140	<input type="checkbox"/>
04	0.50	0.25	200	<input type="checkbox"/>
05	0.70	0.25	280	<input type="checkbox"/>
06	1.00	0.25	400	<input type="checkbox"/>
07	2.00	0.50	400	<input type="checkbox"/>
08	5.00	1.70	300	<input type="checkbox"/>
09	10.00	5.00	200	<input type="checkbox"/>
10	20.00	5.00	400	<input checked="" type="checkbox"/>
- 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	TNO-C3032TRA
Series Model	TNO-C3010TRA TNO-C3020TRA TNO-C3030TRA TNO-C3012TRA TNO-C3022TRA
Model differences	Other than fixed lens (motor not included) and SW differences, everything else is the same


Manufacturer's name

Name and address of factory (ies)	1) HANWHA VISION VIETNAM COMPANY LIMITED Lot O-2, Que Vo Industrial Zone extended area, Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam 2) D-TECH CO., LTD. Suwon INDUSTRIAL COMPLEX NO 2, 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of Korea
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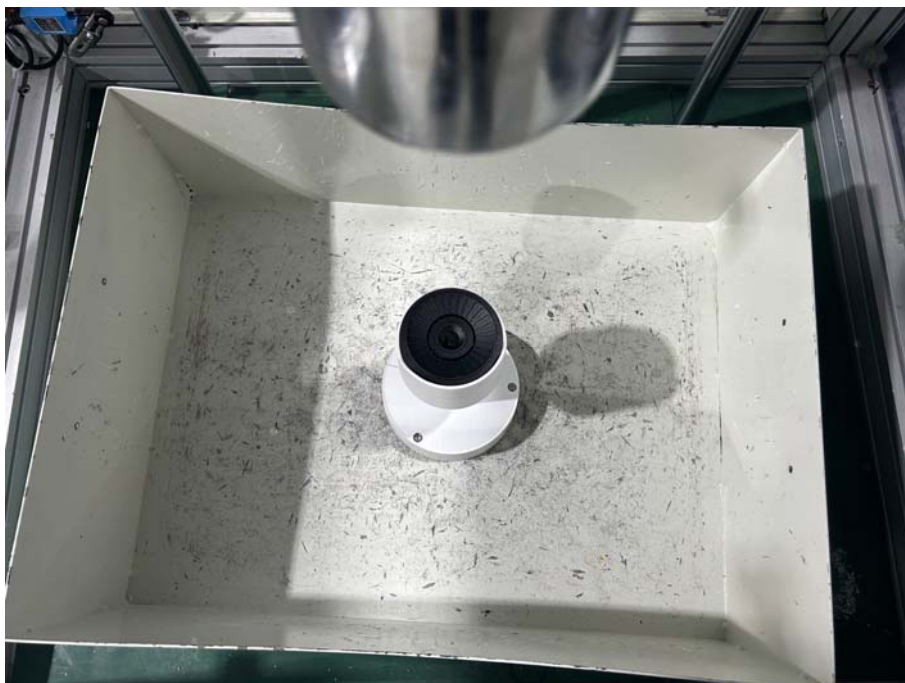
2. APPENDIX

2.1. Product Photographs



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2.2. Test photos




2.3. Photos after test







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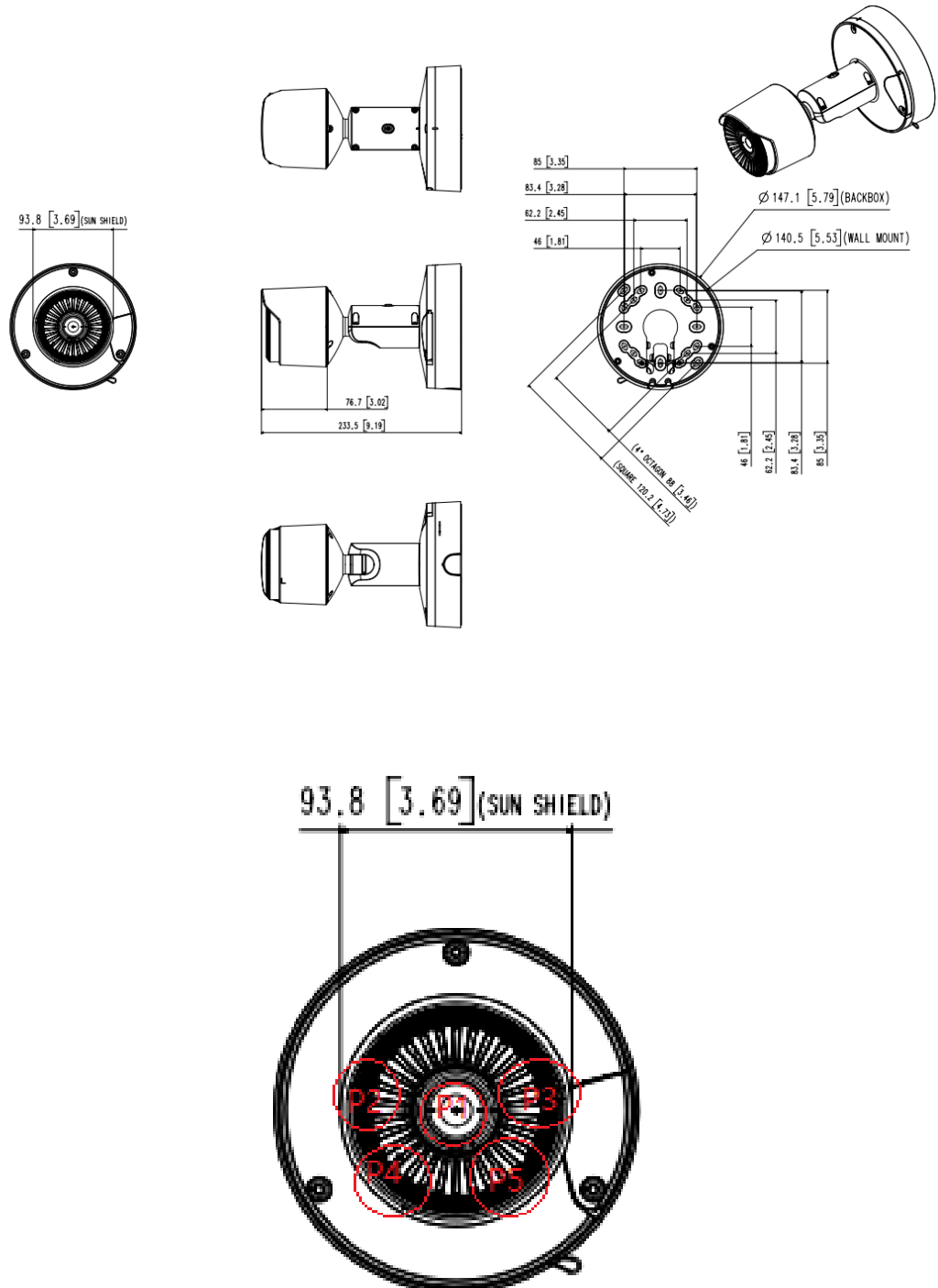
2.4. Enclosure Dimensions or Impact point (Unit: mm)

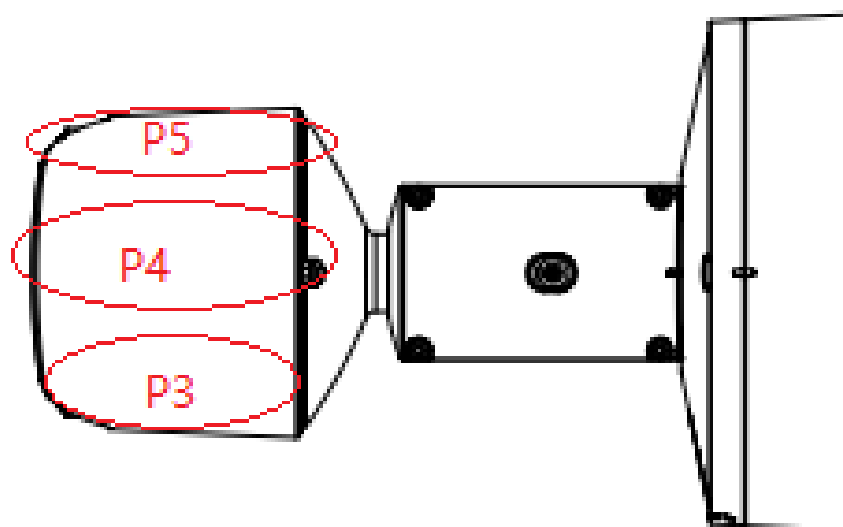
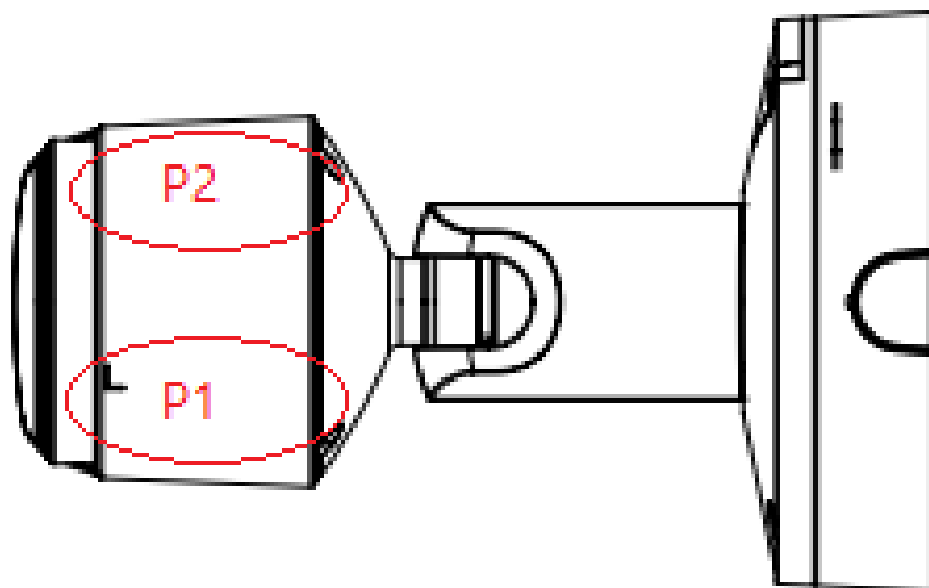


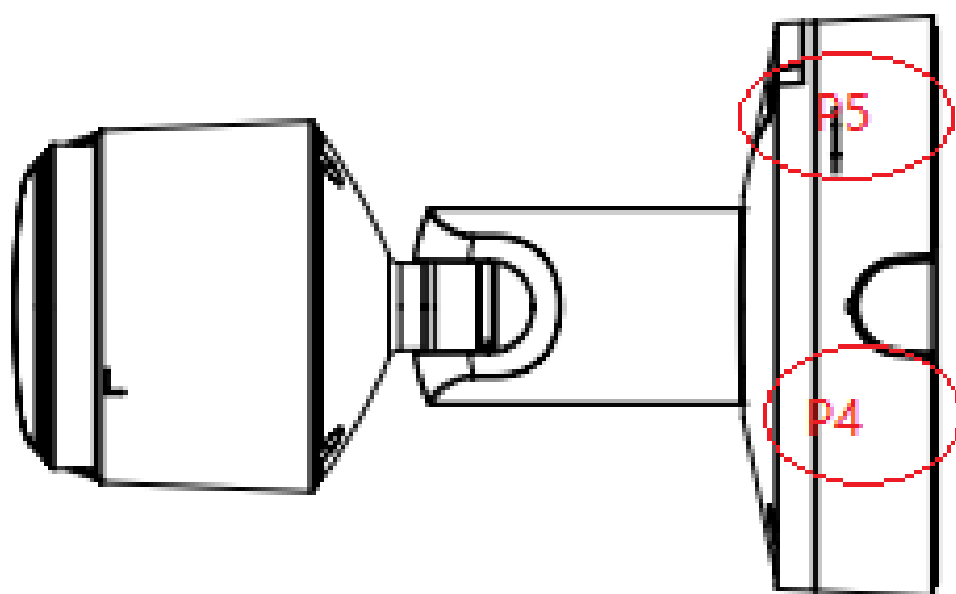
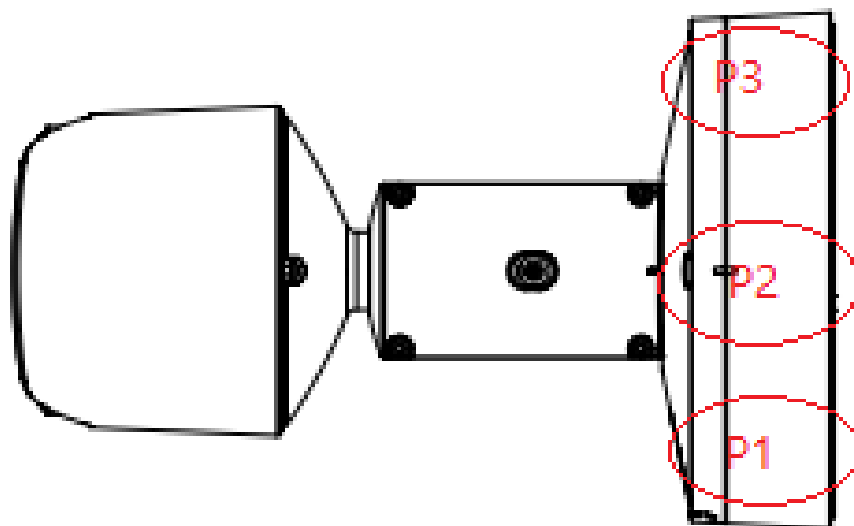


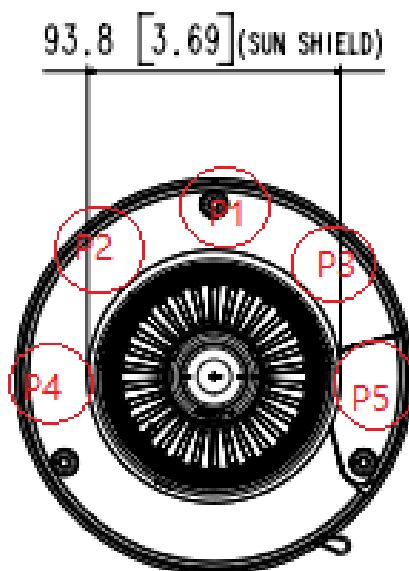


2.5. Enclosure Dimensions or Impact point (Unit: mm)









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