

TEST REPORT

 CTK Co., Ltd. The Power Leader of Global Regulatory Compliance	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-2023-01904-1 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 : 2023-08-03

2. Manufacturer

- Name : Hanwha Vision Co., Ltd

3. Use of Report

: Quality control

4. Test sample / Model

: NETWORK CAMERA / PNO-A9311R

5. Date(s) of test

: 2023-08-24

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.

2024-01-03

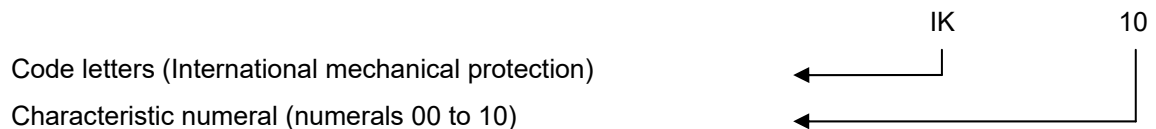
CTK Co., Ltd



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 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 ± 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.		

Manufacturer's name

Name and address of factory (ies)	1) HANWHA VISION VIETNAM COMPANY LIMITED LOT O-2, Que Vo Industial Zone extended area, Nam Son ward, Bac Ninh, 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	PNO-A9311R
Series model	PNO-A9311RLP
Model differences	Differences between basic model and SW

2. APPENDIX

2.1. Product Photographs



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2.2. Test photos



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2.3. Photos after test







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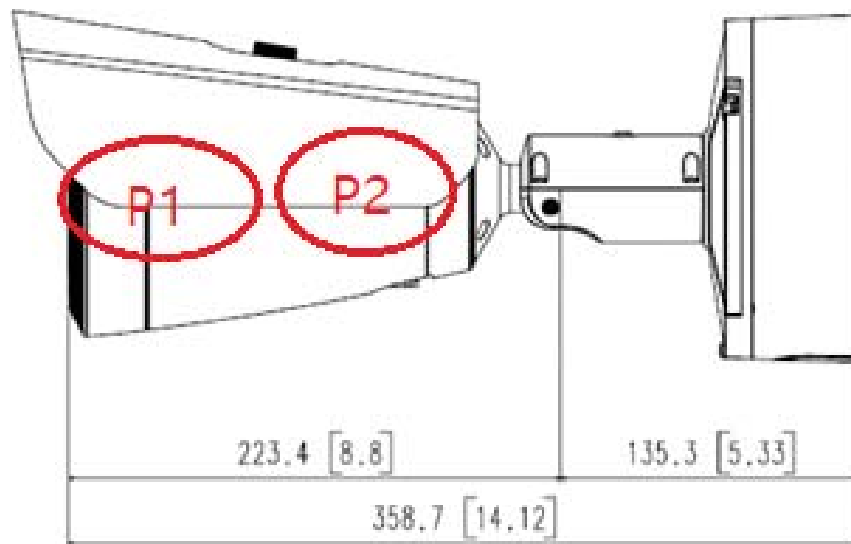
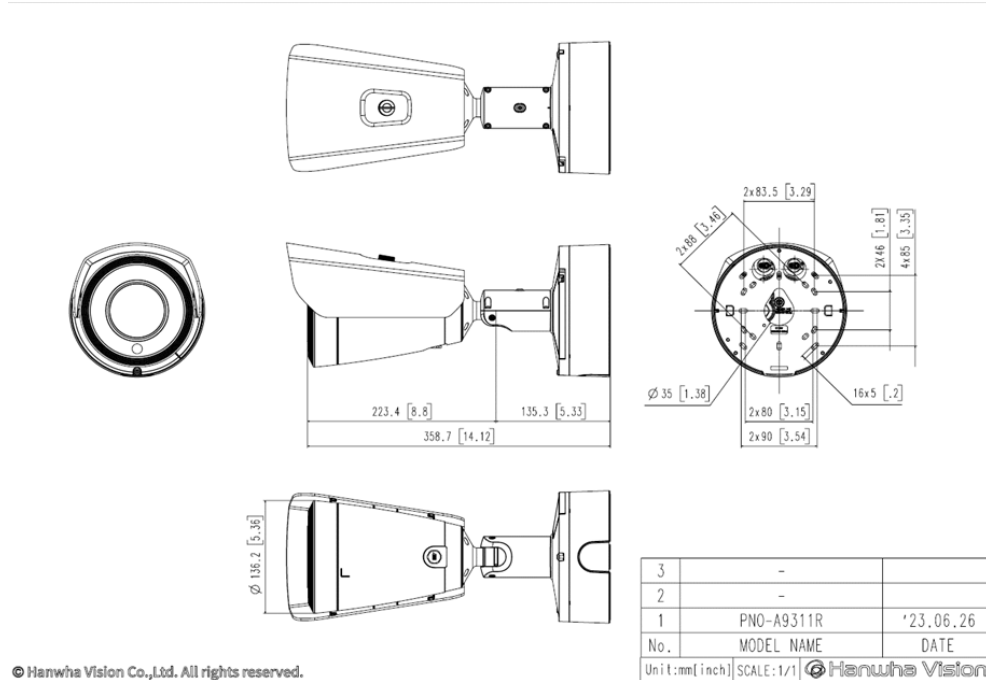
2.4. Enclosure Dimensions or Impact point (Unit: mm)

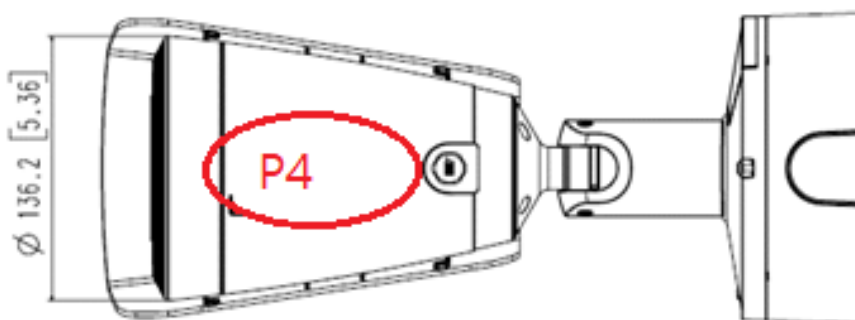
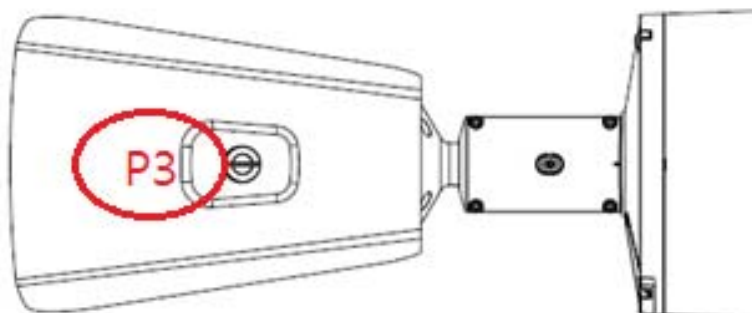


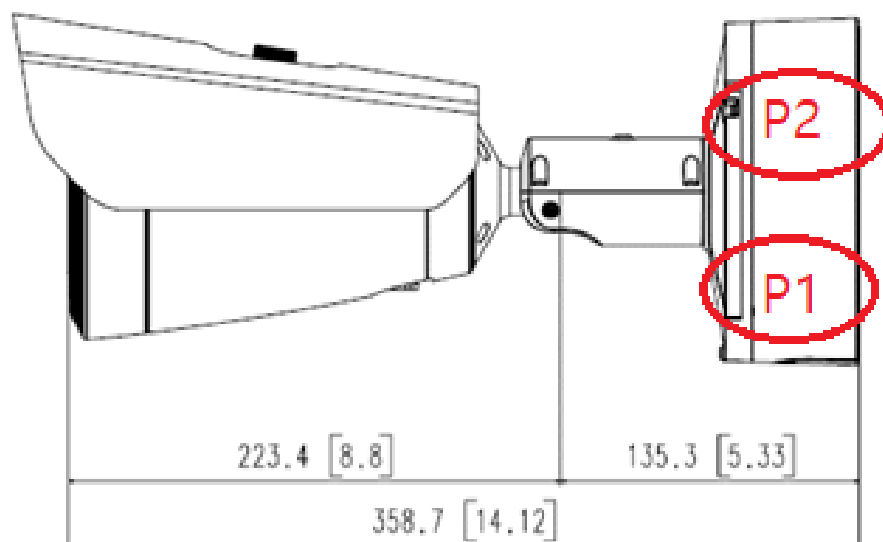
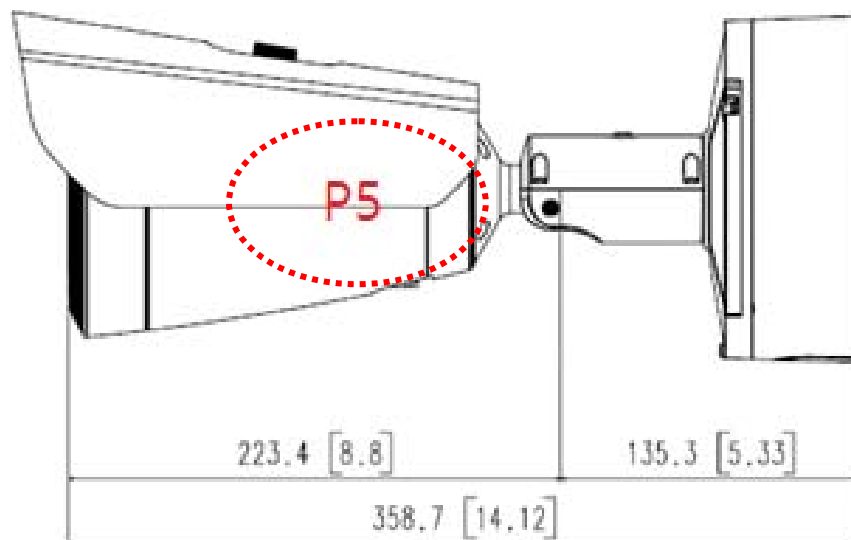


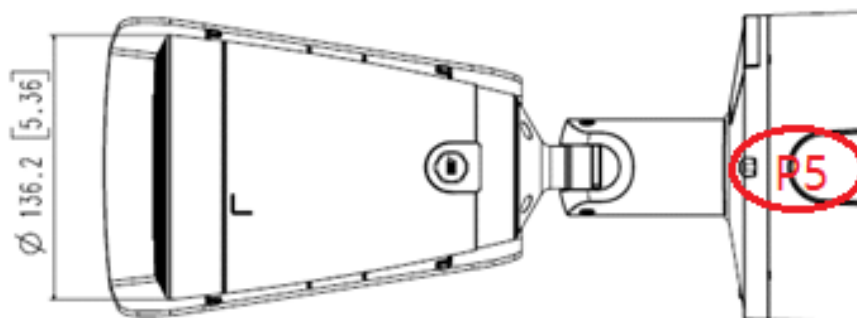
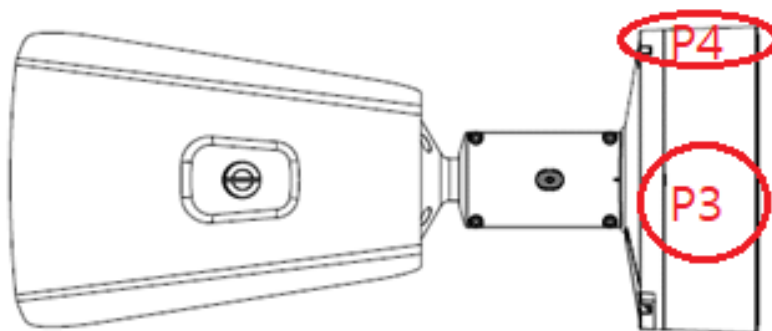


2.5. Enclosure Dimensions or Impact point (Unit: mm)









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