

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-2023-02622-1 Page (1) / (19) 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 : 2023-11-10

2. Manufacturer

- Name : Hanwha Vision Co., Ltd

3. Use of Report

: Quality control

4. Test sample / Model

: Barcode Reader / TNS-9050IBC

5. Date(s) of test

: 2023-11-14

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 ± 10) °C,
Humidity: (50.0 ± 25) % R.H.
Air Pressure: (96.0 ± 10.0) kPa

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
	HyungUk Jeon (Signature)	HoHyun Lee (Signature)

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

2024-08-07

CTK Co., Ltd



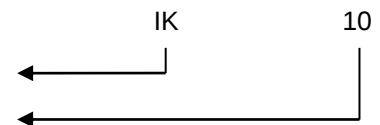
1. Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

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
Vertical Hammer Tester	Vertical Hammer	Kingpo	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. Did not hit the glass protecting the camera lens		

Model description

Basic Model	TNS-9050IBC
Series Model	TNS-9040IBC, TNS-9060IBC
Model differences	Using the same appearance and material (case,finish,pcb cable etc), differences in electronic components inside the product

Manufacturer's name

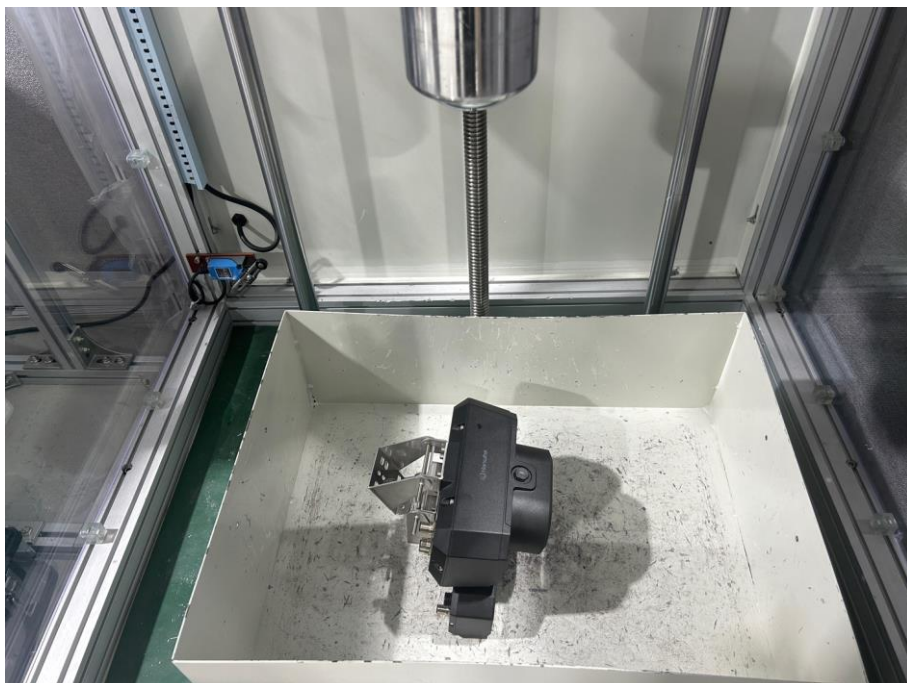
Name and address of factory (ies)	1) HANWHA VISION VIETNAM COMPANY LIMITED Lot O-2, Que Vo Industrial Zone extended area, Nam Son ward, Bac Ninh city, Bac Ninh province, Vietnam 2) D-TECH CO., LTD. Suwon INDUSTRIAL COMPLEX NO 2, 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of Korea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

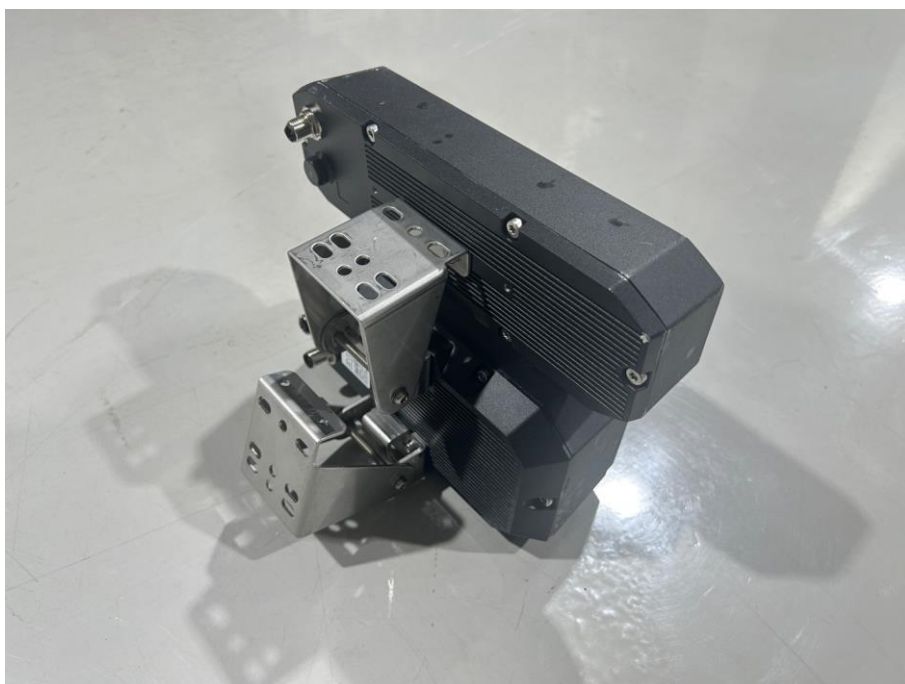
2.1. Product Photographs



2.2. Test photos



2.3. Photos after test







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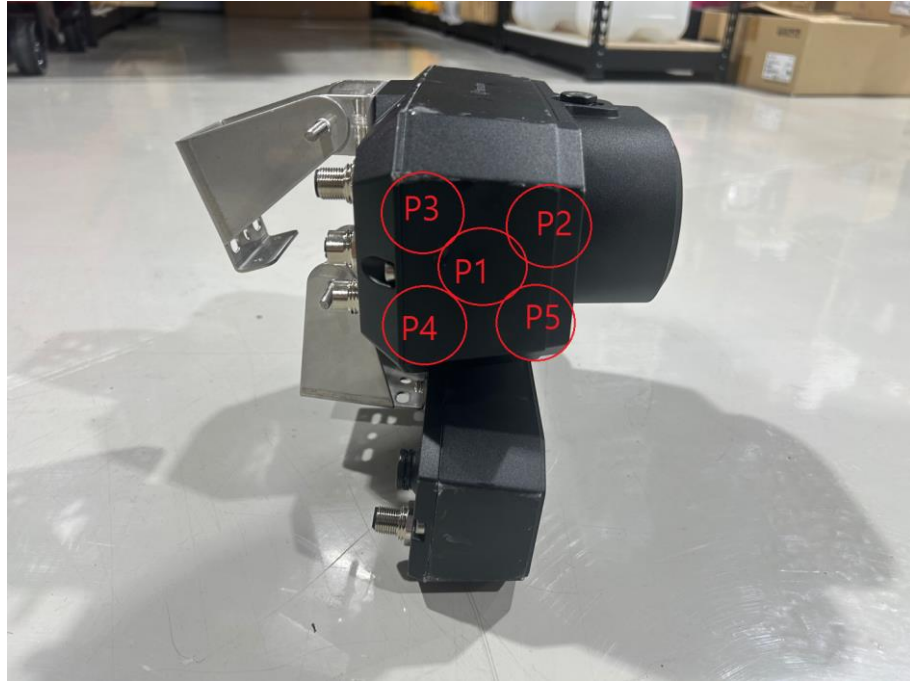




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2.4. Enclosure Dimensions or Impact point (Unit: mm)

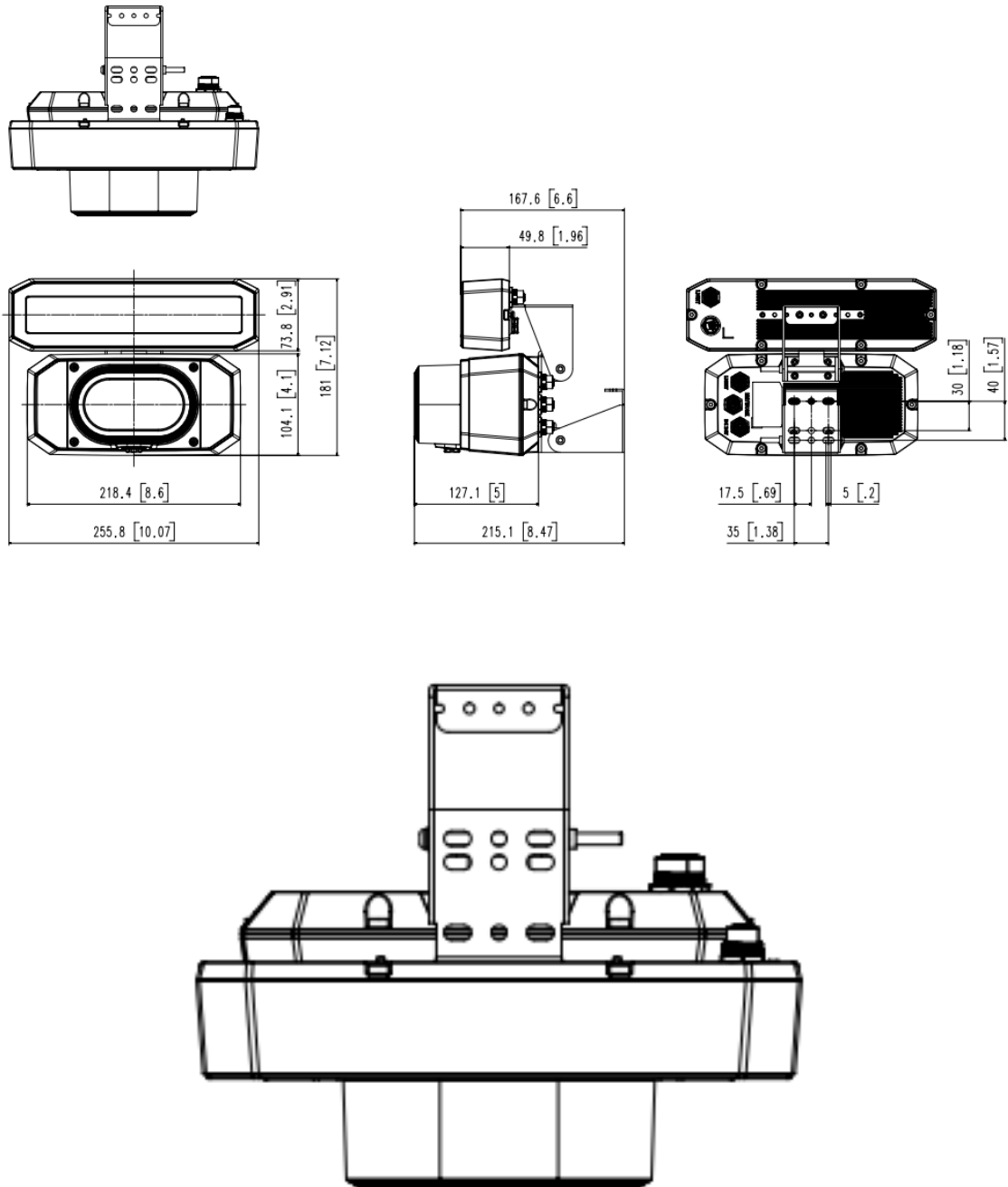


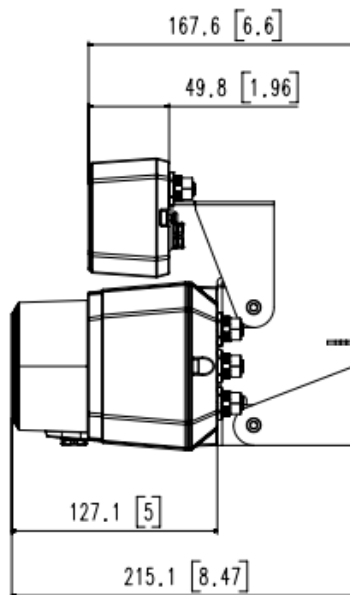
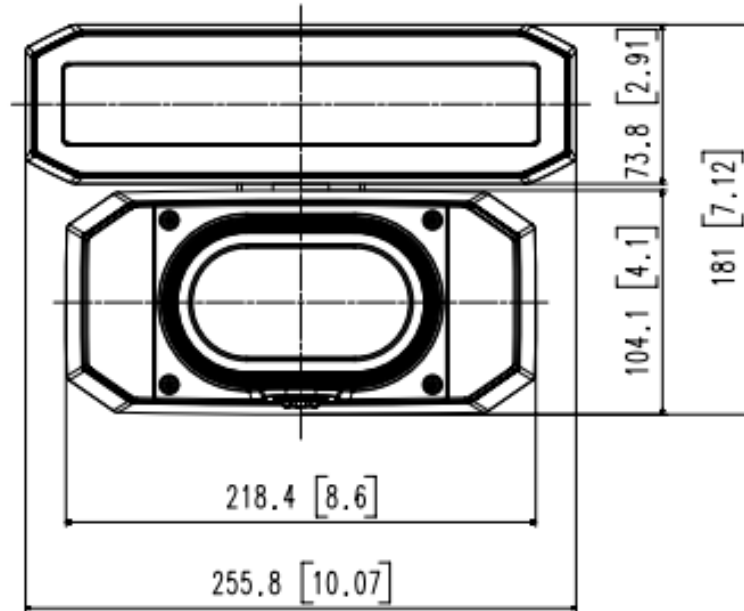


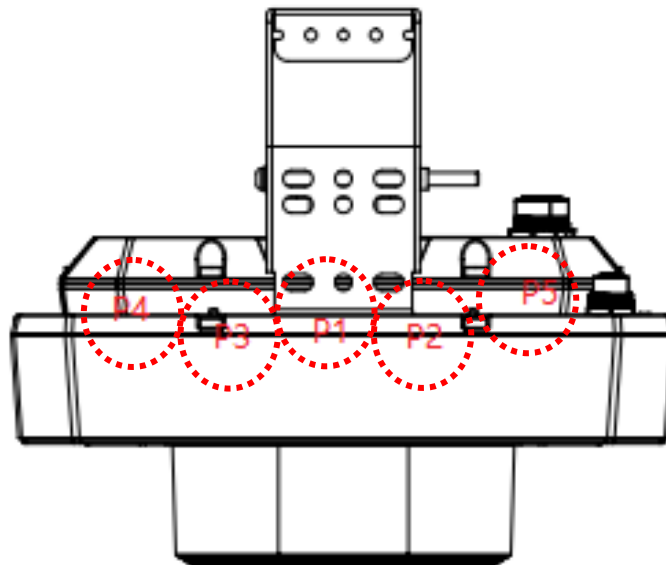
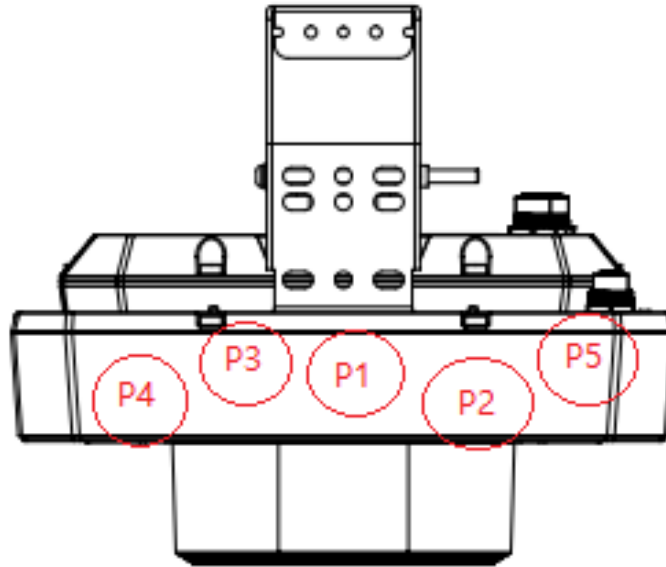


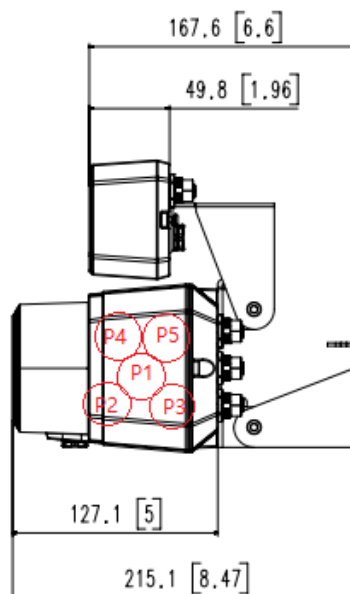
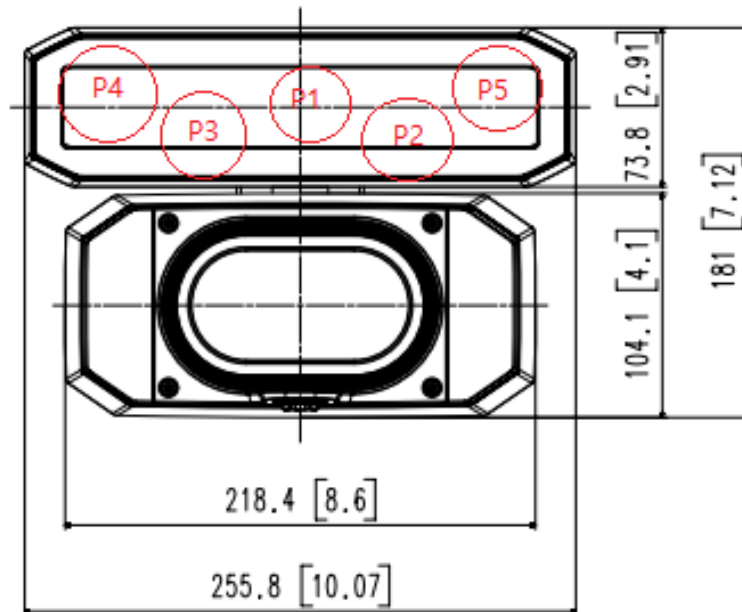


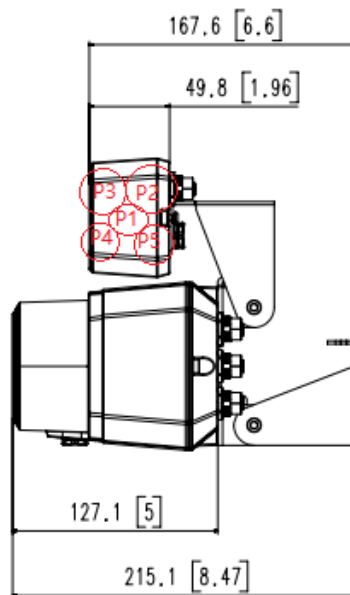
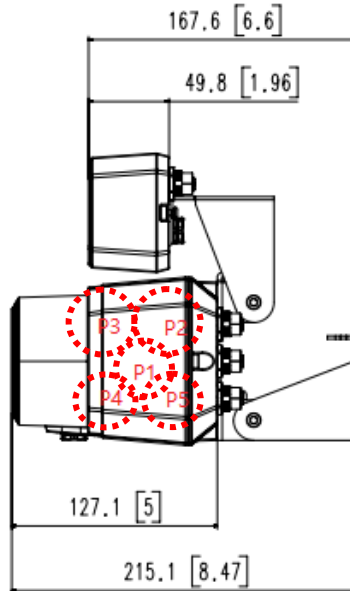
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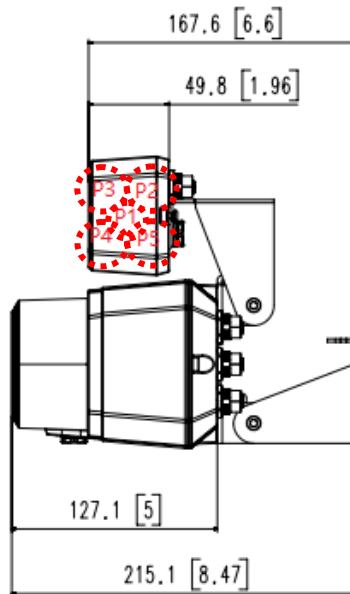












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