

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-2024-00251
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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 : DEC 26, 2023

2. Manufacturer

- Name : INDUS VISION Co., Ltd.

3. Use of Report :

For customer submission

4. Test sample / Model :

Explosion Proof Camera / TNO-C8083E

5. Date(s) of test :

JAN 05, 2024

6. Test Standard (Method) used :

KS C IEC 62262: 2005

7. Testing Environment :

Temperature: (25 ±10) °C, Humidity: (50 ±25) %R.H.
Pressure: (96 ±10) kPa

8. Test Results :

Clause 4. Refer to the test results

■ Permanent Testing Lab □ On Site Testing

9. Location of Test :

(5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si,
Gyeonggi-do, Republic of Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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Approval	Tested by	Technical Manager
	Name: HyungUk Jeon (Signature)	Name: HoHyun Lee (Signature)

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

01-25, 2024

CTK Co., Ltd.



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1. Testing laboratory

1.1 Testing laboratory information

Lab. Name	CTK Co., Ltd.
Address	5 Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
Tel.	+82-31-339-9970
Fax.	+82-31-624-9501
E-Mail	ctk@e-ctk.com
Website	e-ctk.com

1.2 Testing laboratory accreditation status

Country	Classification	Accreditation Number	Logo
International	KOLAS	TESTING NO. KT119	

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2. Product description and equipment information

2.1 Product description

Product Name	Model Name	Quantity	Comment
Explosion Proof Camera	TNO-C8083E	1 EA	-

2.2 Testing equipment information

Testing equipment	Model Name	Manufacturer	Manufacturing Number	Calibration Date
Vertical Hammer Tester	Vertical Hammer	Kingpo	0190605A01002	-
Vertical Hammer	20J	Kingpo	TX028-3	-
줄 자	5.5 m	KOMELON	225851	2023-03-14

2.3 Pre-test product images



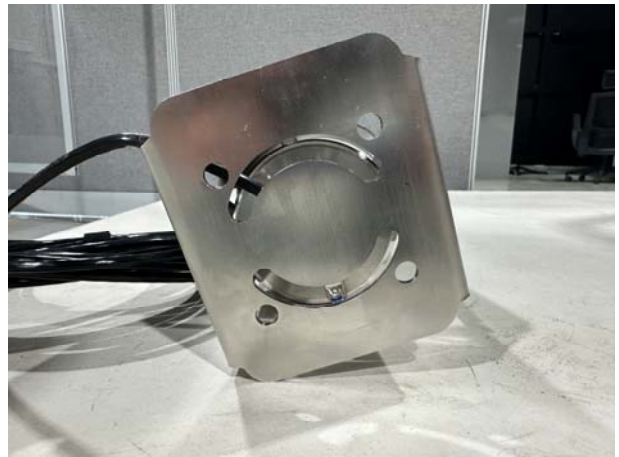
Top



Bottom



Front



Back



Left side



Right side

2.4 Testing equipment images



Vertical Hammer



Vertical Hammer Tester



Steel measuring meter

3. Test conditions and methods

3.1 Test duration, Environmental conditions, and Location

3.1.1 Test date : Nov 10, 2023 ~ Nov 14, 2023

3.1.2 Measured environmental conditions

Item	Temperature (°C)	Humidity (% R.H.)	Pressure (kPa)
Measurement	25.3	40.2	92.3

3.2 Test conditions

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)				

3.3 Testing images

3.3.1 Test environment setup image



Test environment setup image_1

4. Test result

4.1 Test result table

Evaluation Criteria		Test Results	Comment
Visual Inspection	Pre-test	No problem with the product	-
	Post-test	Some scratches were generated on the outside of the product.	-

Excluding hitting: camera lens

※ Refer to the sample images after the test is completed. (Clause 4)

4.2 Post-test product images and hit area images

4.2.1 Check the hit area during the test



Check the hit area the test _1



Check the hit area the test _2



Check the hit area the test _3



Check the hit area the test _4

4.2.2 Post-test product images



Top



Bottom



Front



Back



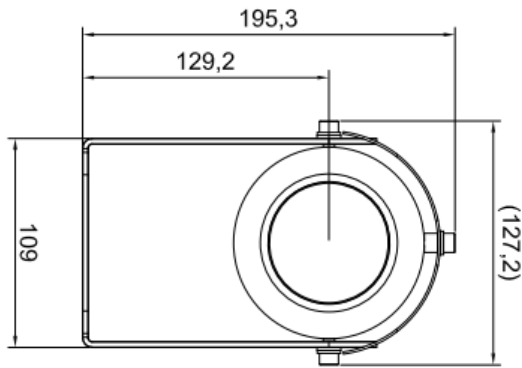
Left side



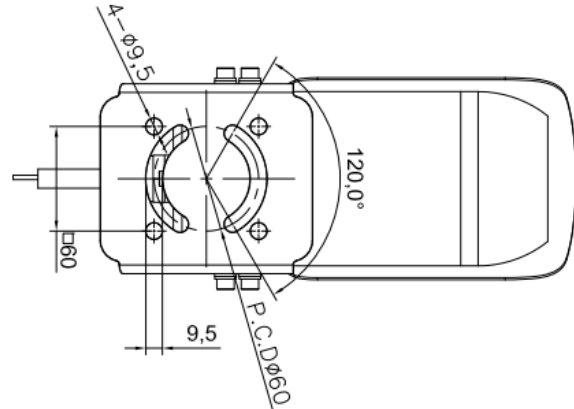
Right side

4.3 Enclosure Dimensions or Impact point (Unit: mm)

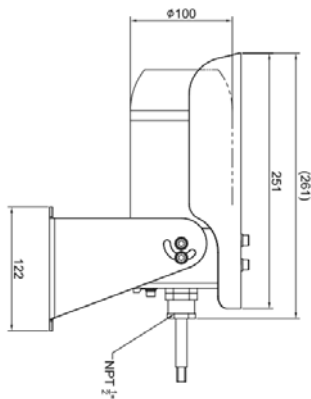
4.3.1 Enclosure Dimensions



front

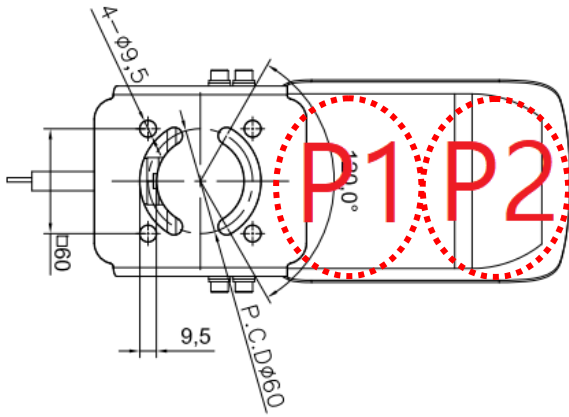


bottom

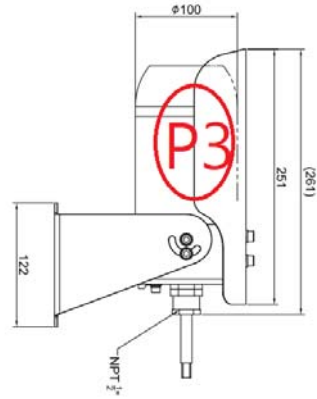


right side

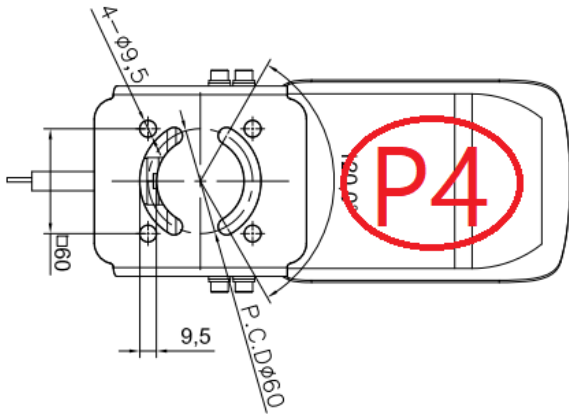
4.3.2 Impact point



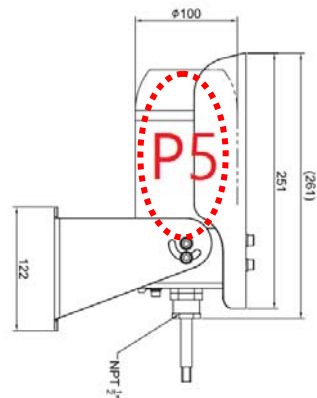
Impact point image 1



Impact point image 2



Impact point image 3



Impact point image 4

- END -