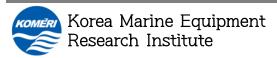
Test Report



24–20, Noksansandan 335–ro, Gangseo–gu, Busan 46754, Republic of Korea Tel +82-51-400-5200 Fax +82-51-400-5210

Report No.:

KOMERI-0314-23T1309(E)

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1. Applicant

Company Name : INDUSVISION

203-704 388, Songnae-daero, Bucheon-si, Gyeonggi-do, Repub Address :

2. Equipment under Test

Name of Product : UNDER WATER NETWORK CAMERA

iAQUA-2000, iAQUA-200Z, iAQUA-200F, iAQUA-2100, iAQUA-210Z, iAQUAo Model :

210F, iAQUA-2200, iAQUA-220Z, iAQUA-220F

Serial No. : -

3 Test Standards: IEC 60529:1989+AMD1:1999+AMD2:2013 Degrees of protection provided

by enclosures (IP CODE)

4 Test Period: $2023.05.24 \sim 2023.05.26$

5 Test Site: Permanent Testing Lab ☐ On Site Testing

(Address: 24–20, Noksansandan 335–ro, Gangseo-gu, Busan 46754, Republic of Korea)

6 Test Result Conformity(IPX8)

The information of the sample(s) in this test report is provided by the applicant. And you can check website (www.g4bgo.kr) to verify the authenticity of the certificate.

The result shown in this test report are only limited in to the samples provided by the applicant and do not guarantee the quality of all products of the applicant

This test report shall be used only within the purpose of its defined use and shall not be used for public relation, advertisement and lawsuit,

Tested by Technical Manager Affirmation Name: Sang-Jin LEE Myeong-Gwan HAN

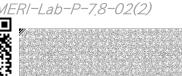
This test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA and related to KS Q ISO/IEC 17025 and KOLAS accreditation

Date of issue: 2023, 08, 09,

Accredited by KOLAS, Republic of KOREA

The President of Korea Marine Equipment Research Institute Algorithms



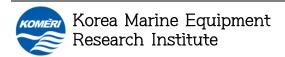










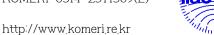


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■ GENERAL

* Test condition	Status	Note
opened without the use of a key or tool	✓ Yes 🗌 No	
be used additional material for degrees of protection	✓ Yes 🗌 No	
not exceeded a rated voltage of 72.5 kV	✓ Yes 🗌 No	
be charged or operated during the test	☐ Yes ☑ No	

■ ADDITIONAL TEST INFORMATION

- Epoxy molding is applied to the internal cable connector part for sealing in this test. (Refer to ATTACHMENT)
- · This EUT uses the same enclosure, but the model is classified according to the applied lens and internal module

Model	Applied lens	Internal module
iAQUA-2000	normal lens	2 mega pixel
iAQUA-200Z	zoom lens	2 mega pixel
iAQUA-200F	fixed lens	2 mega pixel
iAQUA-2100	normal lens	5 mega pixel
iAQUA-210Z	zoom lens	5 mega pixel
iAQUA-210F	fixed lens	5 mega pixel
iAQUA-2200	normal lens	8 mega pixel
iAQUA-220Z	zoom lens	8 mega pixel
iAQUA-220F	fixed lens	8 mega pixel

NOTE 1) The recommended atmospheric conditions during the tests

Temperature : (15 \sim 35) °C, Humidity : (25 \sim 75) % R.H., Atmospheric pressure : (86 \sim 106) kPa

NOTE 2) EUT installation

Unless otherwise specified in a relevant product standard, the test samples for each test shall be a clean and new condition, with all parts in place and mounted in the manner stated by the manufacturer.

NOTE 3) Empty enclosures

If the enclosure is tested without equipment inside, detailed requirements shall be indicated by the enclosure manufacturer in his instructions for the arrangement and spacing of hazardous parts or parts which might be affected by the penetration of foreign objects or water.

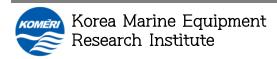
The manufacturer of the final assembly shall ensure that after the electrical equipment is enclosed the enclosure meets the declared degree of protection of the final product.



(OMERI-Lab-P-7,8-02(2)

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1. IP TEST

1.1 TEST STANDARD

· IEC 60529:1989+AMD1:1999+AMD2:2013 Degrees of protection provided by enclosures (IP CODE)

1.2 TEST RESULTS

Table 1-1 Protection against water

Test item	Criterion	Result
IPX8	 Test pressure: 1 000 kPa * Test conditions are provided by applicant. * 100 kPa = 1 bar = 0.98 atm = depth of water 10 m Test duration: 48 hours. After test, the enclosure shall be inspected for ingress of water. * In general, if any water has entered, it shall not be sufficient to interfere with the correct operation of the equipment or impair safety deposit on insulation parts where it could lead to tracking along the creepage distances accumulate near the cable end or enter the cable if any If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment. For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts. 	Water did not penetrate into the enclosure,

^{*} the water temperature should not differ by more than 5 K from the temperature of the EUT

-The end-



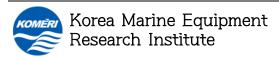












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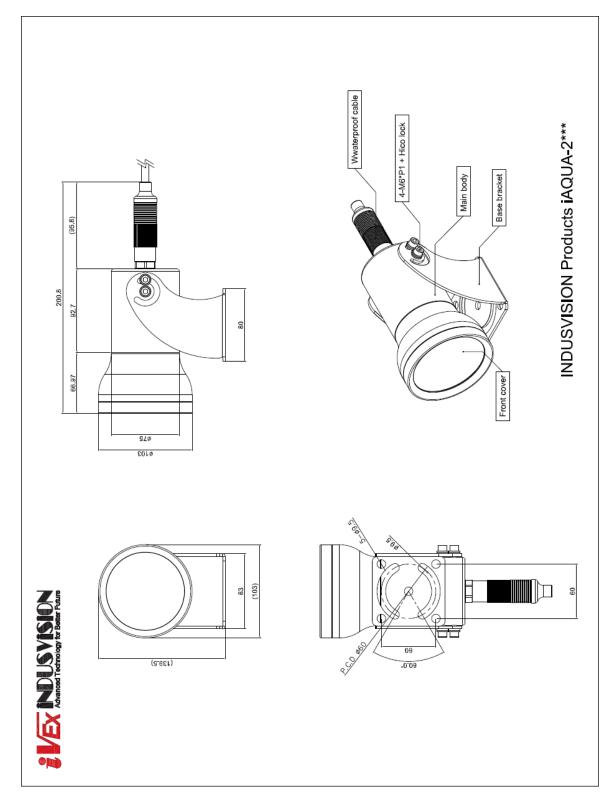
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■ ATTACHMENT I. DRAWING

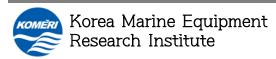












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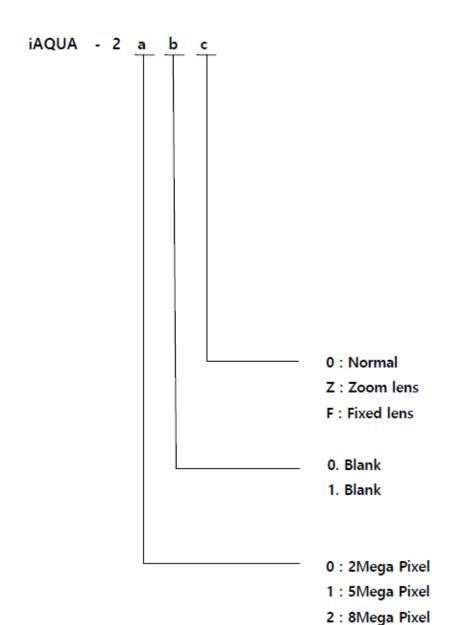
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Model Type Division

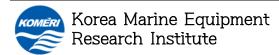






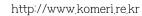






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■ ATTACHMENT II. TEST RESULT













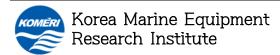












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■ ATTACHMENT III. RAW DATA

