

TEST REPORT



Report No. : 18-056149-01-2

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1. Client

Name : INDUSVISION INC.

Address : #104-709,397,Seokcheon-ro,Ojeong-gu,Buchon-si,Gyeonggi-do,14449,Republic of Korea

Date of Receipt : 2018. 09. 03

2. Use of Report : To verify IP grade to IEC 60529

3. Test Sample

Description : CCTV Camera

Manufacturer : INDUSVISION INC.

Model Name : iSTA-B100

Serial Number : -

Remark : -

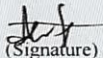

4. Date of Test : 2018. 09. 18. ~ 2018. 09. 19.

5. Test Standard/Method : IEC 60529:1989 +AMD1:1999+AMD2:2013 CSV/COR2:2015

6. Testing Environment : Temperature : (24.2 ± 2.0) °C , Humidity : (50 ± 2) % R.H.

7. Test Results : Pass (IP68)

- Note :
1. This test results contained apply only to the test sample(s) supplied by the client, and it is prohibited to use for legal and other grounds of dispute
 2. This test results is valid only for the original document, and arbitrary reprocessed copy and electronic prints are not valid (*original document' means all the reports containing the security method provided by the KTL,
 3. You can check the contents of the report by scanning the 2D Barcode below. The identity of original reports can be checked in the "Confirm original report" window of the customer's homepage (www.ktl.re.kr).
 4. Items marked with an asterisk (*) are out of range of the KOLAS accreditation of KTL.

Affirmation	Tested by	Technical Manager
	Name : Chae Hui-dong  (Signature)	Name : Min Yeong-seung  (Signature)

The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2018. 10. 01

Korea Testing Laboratory

Accredited by KOLAS, Republic of KOREA



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FP202-03-04

※ 위 마크는 추후 전자확인증 대조 프로그램에서 원본대조시 사용되는 2D코드입니다.

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1. Summary of Test

1.1 Test Standard

This test was conducted in accordance with "IEC 60529:1989 +AMD1:1999+AMD2:2013 CSV/COR2:2015".

1.2 Test Sample

- Description : CCTV Camera
- Model Name : iSTA-B100
- Dimensions : Diameter of 87 mm × 151 mm



[Fig. 1: Front]



[Fig. 2: Side]

1.3 Test Environment

- Temperature : (24.2 ± 2.0) °C
- Humidity : (50 ± 2) % R.H.
- Atmospheric Pressure : (101.3 ± 2.0) kPa

1.4 Remark

N/A

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2. Results

Code Letters	IP	Conditions	Results
1st Characteristic numerals Against ingress of solid foreign objects	6	2.1 Dust Test Conditions <ul style="list-style-type: none"> Talcum powder(mesh) wire diameter: 50 μm Talcum powder(mesh) wire width: 75 μm Amount of talcum powder of the test chamber: 2 kg/m^3 2.2 Dust Test Contents <ul style="list-style-type: none"> Volume of the enclosures: About 371 cm^3 Reduction air pressure: -2.00 kPa (-200 mmH₂O) Flow rate: 0.01 L/min Extraction rate per hour: 1.62 volumes/h Test duration: 8 h 	Pass
2nd Characteristic numerals Against ingress of water with harmful effects	8	2.3 Water Test Conditions <ul style="list-style-type: none"> The lowest point of enclosure : 500 mm The highest point of enclosure : 413 mm Differential temperature of water and enclosure (less than 5K) : About 2.0 K Hydraulic test : 0.4 MPa (Depth of water : About 40 m) 2.4 Water Test Contents <ul style="list-style-type: none"> Test duration: 2 h 	Pass

3. List of Testing Equipments

Equipment	Manufacture	Model	ICP No.	Date of Calibration	Calibration Laboratory
Thermo-hygrometer	TESTO	Testo 622	ICP20140892	2018. 05. 14	KTL
Vernia Caliper	MITUTOYO	CD-20APX	ICP20160207	2018. 05. 17	KTL
Flow Meter (Compact Chamber)	DWYER	RMA-13-SSV	ICP20150476	2018. 05. 22	KTL
Pressure Gauge (Pressurized Tank)	DWYER	DPG-106	ICP20170386	2018. 05. 18	KTL

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4. Test Figures



[Fig. 3: IP 6X]



[Fig. 4: IP X8]



[Fig. 5: IP X8]

- End -

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