시 험 성 적 서
(TEST REPORT)

성적서 번호(Report No): OT-238-RRK-016

1. 의뢰자 (Client)
   - ○ 기 관 명 (Name) : Xperix Inc.
   - ○ 주 소 (Address) : #1207, 37, Sagimakgol-ro 62beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
   - ○ 접수번호 (Reception No.) : 2307002420

2. 시험대상품목 (Product)
   - ○ 기기명 (Description) : Fingerprint scanner
   - ○ 모델명 (Model Name) : RealScan-FC, RS-FC
   - ○ 제조번호 (Serial No.) : N/A

3. 의뢰일자 (Date of Receipt) : 2020. 09. 18

4. 시험기간 (Date of Test) : 2020. 10. 23 ~ 10. 28

5. 시험장소 (Location of Test) : ■ 고정시험실(Permanent Testing Lab) □ 현장시험 (On Site Testing)
   [주소(Address) : 1882-5, Gyeongchung-daero, Gwangju-si, Gyeonggi-do, Republic of Korea]

6. 시험방법 (Test Method Used) : IEC 60529:1989 + A1:1999 + A2:2013

7. 시험결과 (Test Results) : Refer to attached test report

이 성적서는 의뢰자가 제시한 시료 및 시료명에만 한정됩니다.
The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
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This laboratory is not accredited for the test results marked. *
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The subcontract laboratory test results mark ◇.

확 인 (Affirmation)	시험자 (Tested by)	승인자(Approved by) / 기술책임자(Technical Manager)
	성 명 (Name) : Sang hoon Kim	성 명 (Name) : Jin Won Seo
	서 명 (Signature) :	서 명 (Signature) :

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

2023. 08. 24

한국인정기구 인정 (주)원택 대표이사
Accredited by KOLAS, Republic of KOREA (The president of ONETECH Corp.)

경기도 광주시 초월읍 진새골길 43-14 (TEL:031-799-9500 FAX:031-799-9599)
ONETECH Corp. 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do 12735 Korea
(TEL:+82-31-799-9500 FAX:+82-31-799-9599)

< Revisions History >

Rev. No.	Issue Report No.	Issue Date	Revisions	Section Affected
0	OT-20N-RRK-007	2020. 11. 10	Initial Release	All
1	OT-238-RRK-016	2023. 08. 24	CLIENT AND MANUFACTURER INFORMATION - Before: Suprema ID Inc. - After: Xperix Inc.	1 Page, 4 Page

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1. TESTING LABORATORY INFORMATION

-. Testing Location : ONETECH 3rd Laboratory

-. Address : 1882-5, Gyeongchung-daero, Gwangju-si, Gyeonggi-do, Republic of Korea

2. CLIENT AND MANUFACTURER INFORMATION

-. Client : Xperix Inc.

-. Address : #1207, 37, Sagimakgol-ro 62beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

-. Manufacturer : Xperix Inc.

-. Address : #1207, 37, Sagimakgol-ro 62beon-gil, Jungwon-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

3. TEST SUMMARY

Standards	Test Items	Results	Test Date
IEC 60529:1989 + A1:1999 + A2:2013	Test for protection against access to hazardous parts (IP6X)	Refer to 5.4	2020. 10. 23
	Test for protection against solid foreign objects (IP6X)	Refer to 6.4	2020. 10. 23 ~ 10. 24
	Test for protection against water (IPX4)	Refer to 7.4	2020. 10. 28

Please contact us [(TEL : +82-31-799-9500 (Ext.0)] for verification of this test report.

4. EUT (Equipment Under Test)

4.1 Identification of EUT

-. Equipment : Fingerprint scanner

-. Type/model : RealScan-FC, RS-FC

-. Sample quantity : 2 EA

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5. Test for protection against access to hazardous parts (IP6X)

Date: 2020. 10. 23

5.1 Environmental condition

Ambient temperature	(22 ± 2) °C
Relative humidity	(41 ± 3) % R.H.
Atmospheric Pressure	1 010 hPa

5.2 Test equipment used

Model Number	Manufacturer	Description	Serial Number	The due date of next Calibration
BPT-02	DAEKYUNG	1.0 mm Test Probe	N/A	2020. 11. 11
DS2-1000N	OPTECH	FORCE MEASUREMENT	303410	2021. 03. 31

5.3 Test method

Items	Descriptions
1st Characteristic Numbers	6
Test Condition	- Access probes : Test wire 1.0 mm diameter, 100 mm long - Test force : 1 N ± 10 %

5.4 Test result

EUT No.	IP Code	Result
1	IP6X	No pass of probe were found at any point within the enclosure

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6. Test for protection against solid foreign objects (IP6X)

Date: 2020. 10. 23 ~ 10. 24

6.1 Environmental condition

Ambient temperature	(22 ± 2) °C
Relative humidity	(41 ± 3) % R.H.
Atmospheric Pressure	1 010 hPa

6.2 Test equipment used

Model Number	Manufacturer	Description	Serial Number	The due date of next Calibration
SOC-300DSEM	SCM	DUST CHAMBER	SOC-11-43-10DSEM	N/A
RMA-13-SSV(T02AD)	Dwyer	Flow Meter(1000mL/min) - IPX	20180308	2021. 09. 18
KX9N-SENA	HANYOUNG NUX	TEMPERATURE CONTROLLER	826282	2021. 09. 15
KP-21N	SENSORTEC	PRESSURE TRANSMITTER	1107047	2021. 09. 17

6.3 Test method

Items		Descriptions
1st Characteristic Numbers		6
Enclosures Category		■ Category 1 □ Category 2 □ Category 1 and Category 2
Test Condition		-Wire diameter: 50 ㎛ -Width between wires: 75 ㎛ -Amount of talcum powder of the test chamber: 2 kg/m^3
Method	Category 1	□If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h. ■If, with a maximum depression of 2 kPa(20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn, or a period of 8 h has elapsed.
	Category 2	□The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump. Any drain-hole normally open shall be left open for the duration of the test. The test shall be continued for a period of 8 h.

6.4 Test result

EUT No.	IP Code	Result
1	IP6X	No traces of dust deposits were found at any point within the enclosure

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7. Test for protection against water (IPX4)

Date: 2020. 10. 28

7.1 Environmental condition

Ambient temperature	(22 ± 2) °C
Relative humidity	(33 ± 3) % R.H.
Atmospheric Pressure	1 010 hPa

7.2 Test equipment used

Model Number	Manufacturer	Description	Serial Number	The due date of next Calibration
N/A	DAEKYUNG	Hard Held Type Spray Nozzle	N/A	N/A
1 bar	TESCOM	PRESSURE GAGE	150325	2021. 03. 30
GA-101	KOMETER	Flow Meter(15 l/min) - IPX	G-2808141-1	2021. 09. 17
HS-3	CASIO	STOP WATCH	B15-2	2021. 10. 23

7.3 Test method

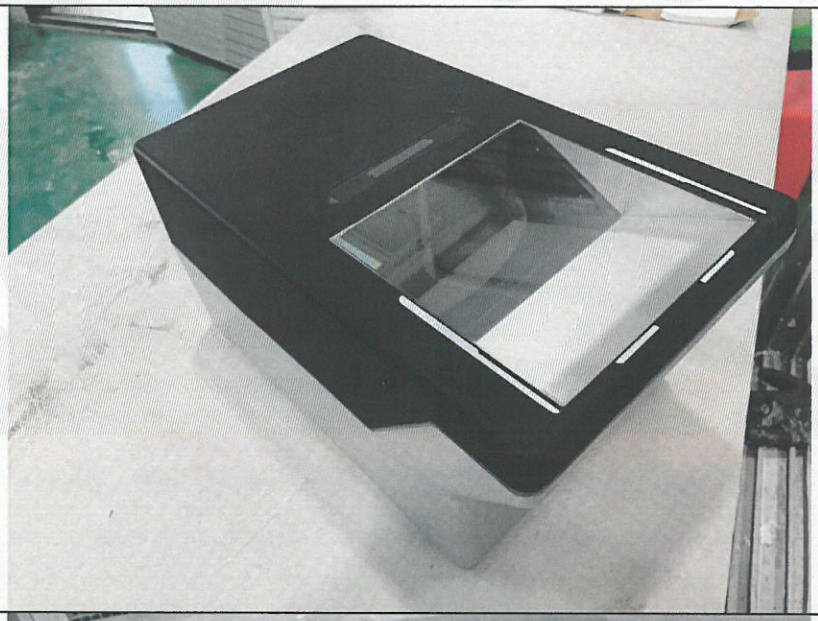
Items	Descriptions
2nd Characteristic Numbers	4
Test Condition	Water pressure: 50 ~ 150 kPa Delivery rate: 10 L/min ± 5 % Spray: from vertical ± 180° Minimum test duration: 1 min/m^2 of the calculated surface area of the enclosure, Least 5 min Distance from nozzle to enclosure surface: Distance 300 ~ 500 mm

7.4 Test result

EUT No.	IP Code	Result
2	IPX4	No Water deposits were found at any point within the enclosure

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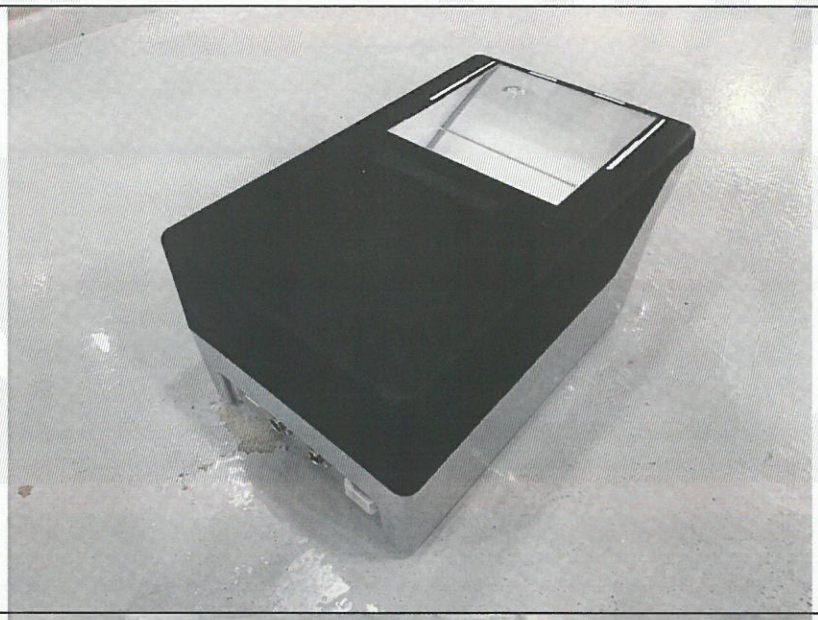
APPENDIX I- PHOTO OF EUT





IP6X

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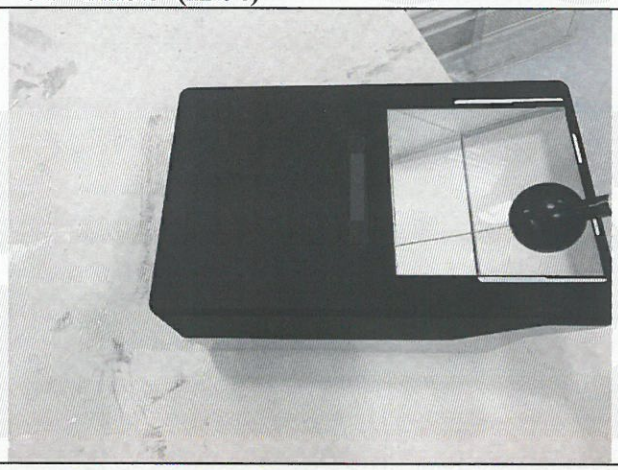




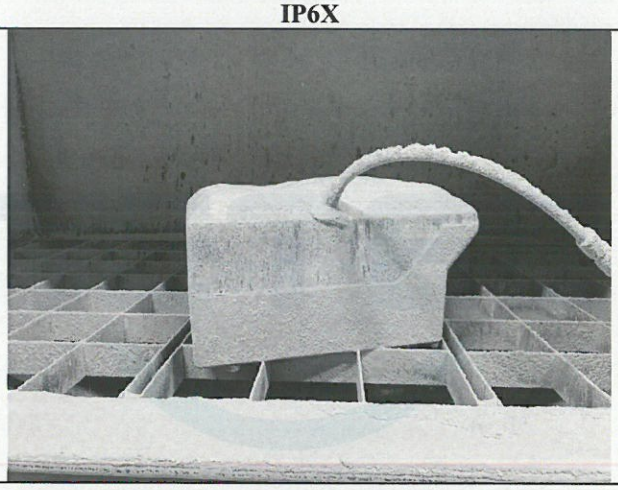
IPX4

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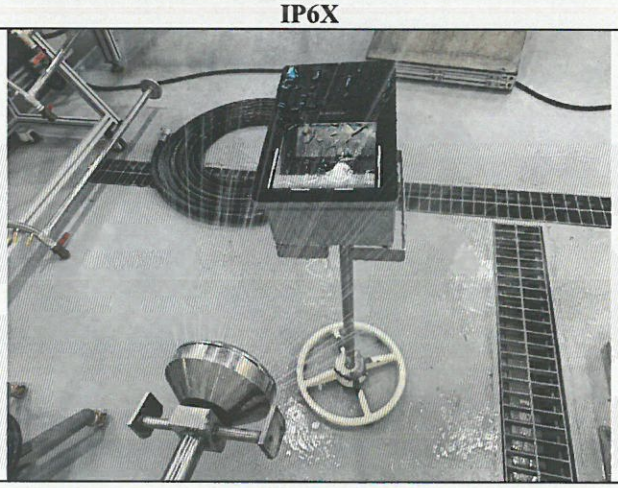
APPENDIX II- PHOTO OF TEST (IP64)



IP6X



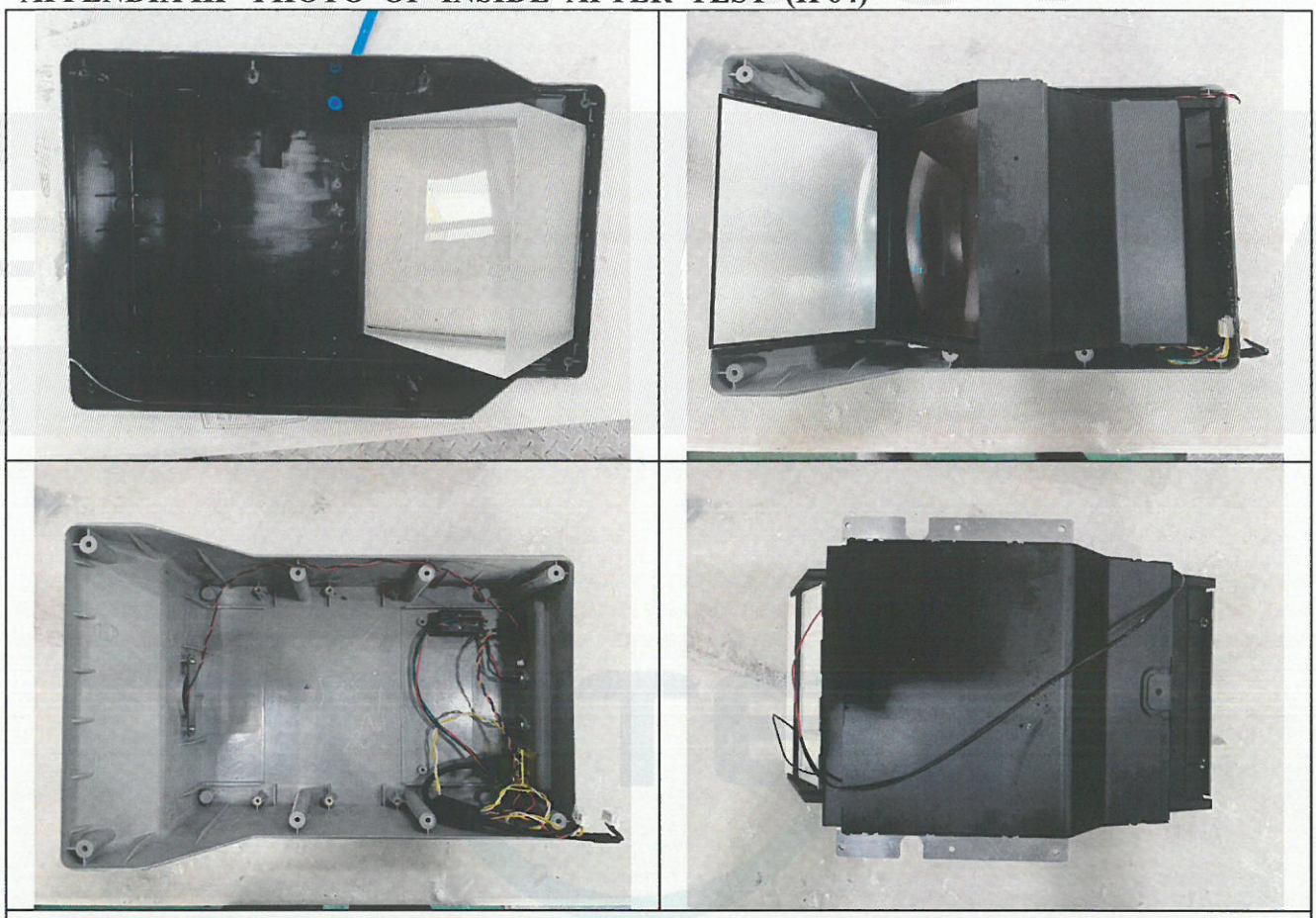
IP6X



IPX4

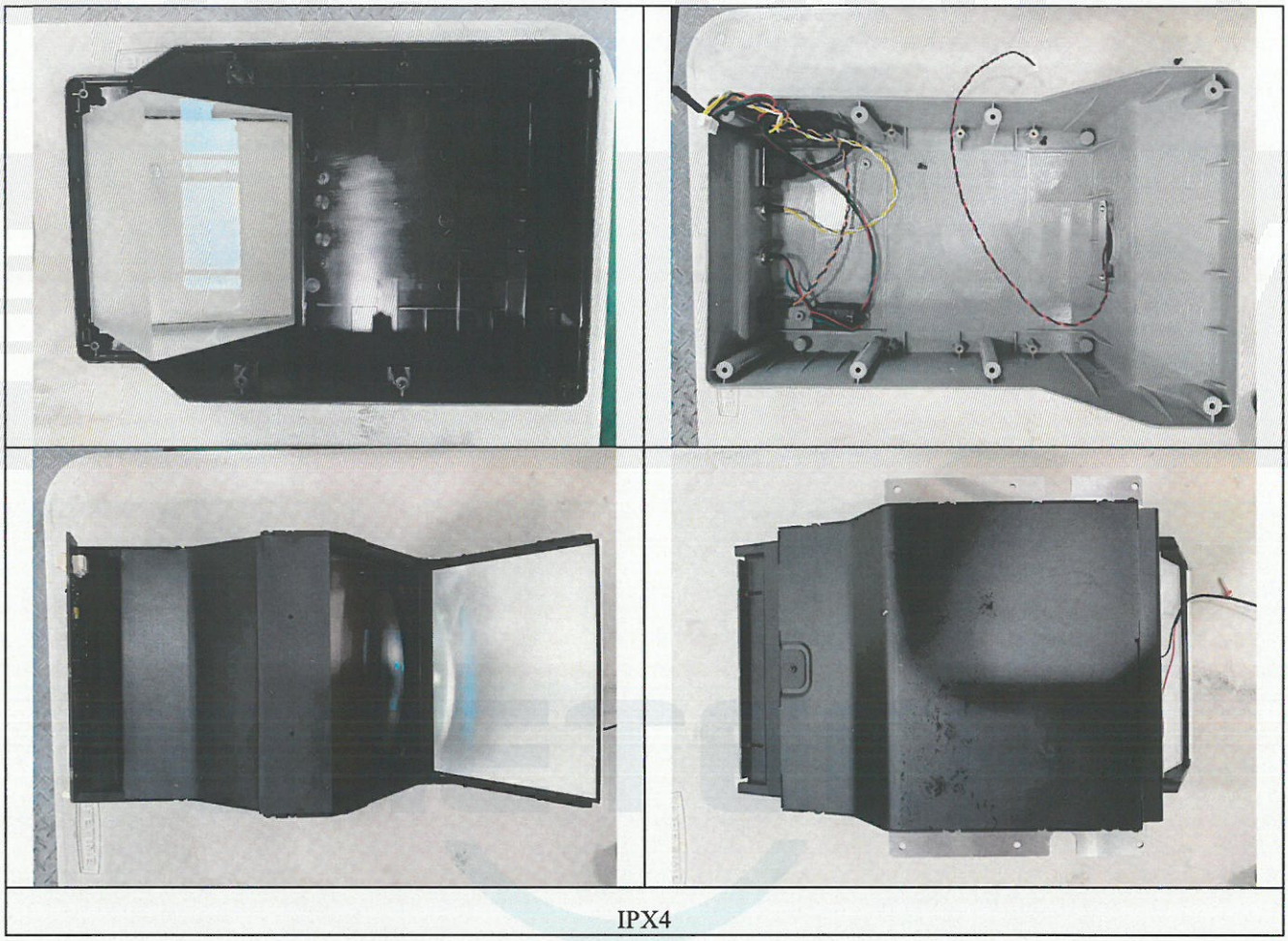
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APPENDIX III- PHOTO OF INSIDE AFTER TEST (IP64)



IP6X

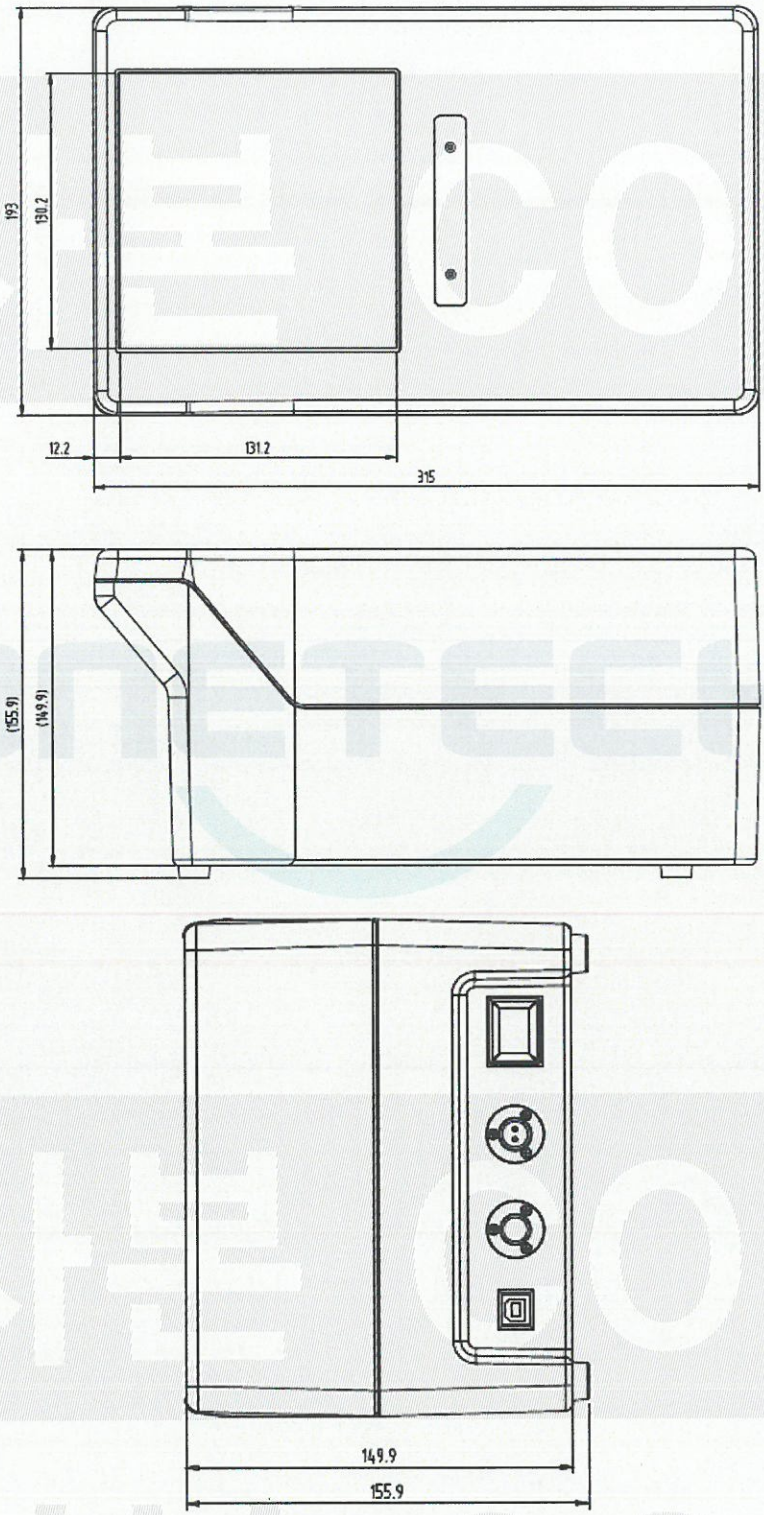
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IPX4

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APPENDIX IV- DRAWING



- End -

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