

ONETECH

Accredited Testing Laboratory under the terms of ISO/IEC 17025

ENVIRONMENTAL TEST REPORT

for

PRODUCT: ACCESS CONTROL SYSTEM

“MODEL NAME(S): BioEntry Plus”

AUTHORIZED

Suprema Inc.

16F Parkview Office Tower, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-863 Korea

DECEMBER 27, 2007

Test Results

“Refer to the test results attached”

- 1. As a test result of sample which was submitted from the client, this test report does not guarantee the whole product quality.**
- 2. This test report should not be used for public relations, advertisement, conduct propaganda and raised for a suit without a written agreement of testing institute, and should not be used for various purpose beside subscribed use.**
- 3. This test report including test result conducted by using the test method which was suggested form a client.**


(signature)

G. W. LEE / Managing Director

This is only valid in connection with Test Report: R07DR-021

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Reliability-001(Rev.1)

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TEST REPORT**Report No**: R07DR-021

Date of issue: 2007-12-27

Testing Laboratory: ONETECH Corp.

AGR. No.: A07DA-068

Address: 307-51 Daessangnyeong-ri, Chowol-eup, Gwangju-si, Gyeonggi-do
464-862, Korea

Testing location: Same as above

Applicant: Suprema Inc.

Address.....: 16F Parkview Office Tower, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-863 Korea

Standard: Test specification supplied by the manufacturer

Purpose of use.....: Quality Control

Test Report Form No.....: Reliability-003(Rev.1)

Number of pages (Report).....: 9Pages

Number of pages (Attachments): N/A

Prepared by.....:

Reviewed by.....:



(+ signature)

J. W. SEO / Engineer

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S. J. SONG / Engineer

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1. CLIENT AND MANUFACTURER INFORMATION

- . Applicant : Suprema Inc.
- . Address : 16F Parkview Office Tower, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-863
Korea
- . Manufacturer : Suprema Inc.
- . Address : 16F Parkview Office Tower, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-863
Korea
- . Name of contact : Myung-Chul, Lee / Senior Research Engineer
- . Telephone No. : +82-31-783-4514
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2. TEST SUMMARY**2.1 Test items and results**

STANDARS	Test Items	Results
The specification supplied by the manufacturer	Temperature change	PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Basis test condition

Items		Descriptions
Initial Measurements		- No crack, transformation and swell should be visually not found. - After the EUT is connected to measurements equipments stated in the section 3.3, the EUT's output was measured.(according to 3.3)
Preconditioning	Regulations	The regulations of preconditioning is not required : The regulations of preconditioning is required :
	Contents	N/A
Intermediate Measurements	Regulations	The regulation of intermediate measurements is not required : The regulation of intermediate measurements is required :
	Contents	- After the EUT is connected to measurements equipments stated in the section 3.2, the EUT's output was measured.(according to 3.3)
Recovery	Regulations	The regulation of recovery is not required : The regulation of recovery is required :
	Contents	N/A
Final Measurements		- No crack, transformation and swell should be visually not found. - After the EUT is connected to measurements equipments stated in the section 3.3, the EUT's output was measured.(according to 3.3)

* N/A = Not Applicable.

3. EUT (Equipment Under Test)

3.1 Identification of EUT

- Equipment : Access Control System
- Type/model : BioEntry Plus
- Brand Name : N/A
- Serial number : N/A
- Manufacturer : Suprema Inc.
- Electrical Rating : DC12V

3.2 Configuration

Model	Manufacturer	Description	Connected to
BioEntry Plus	Suprema Inc.	Access Control System	-
-	-	Adapter	EUT
-	-	RF CARD	EUT

3.3 Mode of operation during the test

-After the EUT is connected to peripheral equipments stated in the section 3.2, the EUT maintains normal operations that the EUT scans the RF CARD.

3.4 EUT modification

-N/A

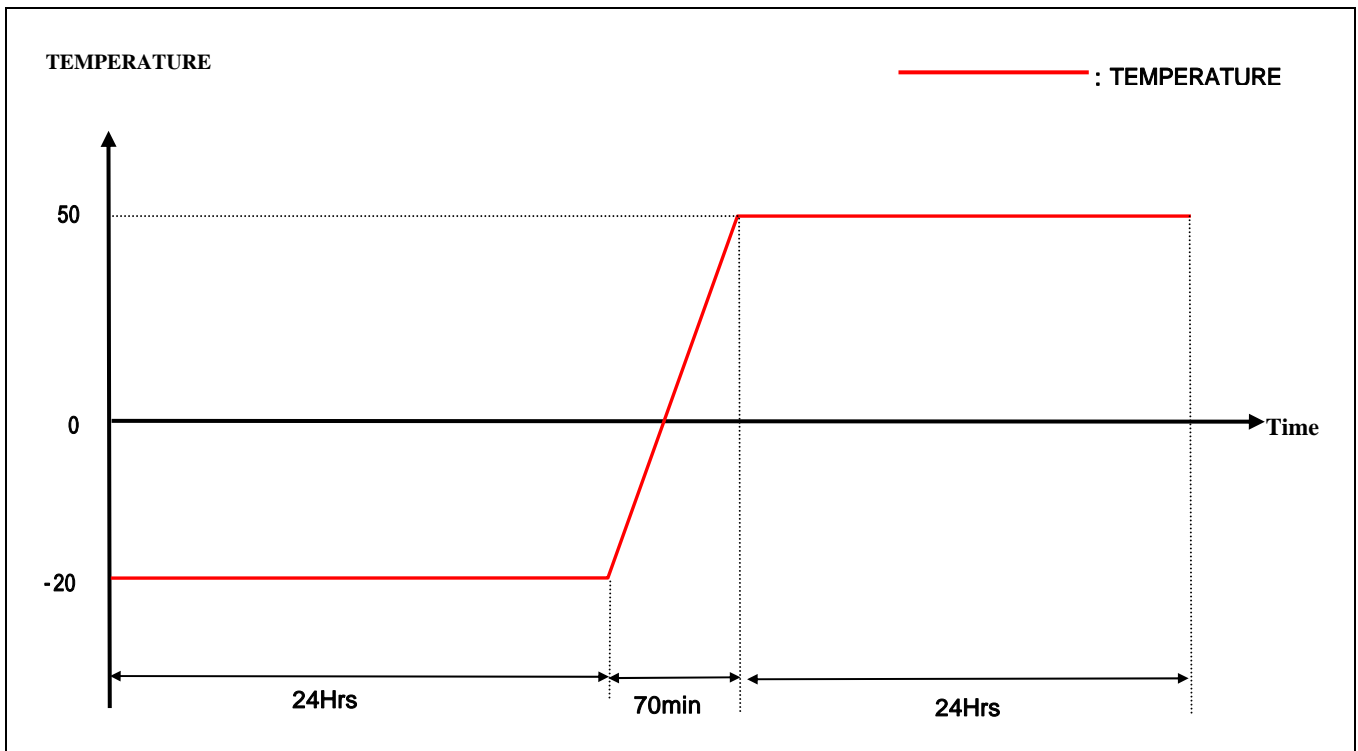
3.5 Difference of basic model and alternate model

-N/A

4.3.2 Test severities

Temperature			Humidity			Cycle Number	Test sequence
Set-up		Rate of change	Set-up		Rate of change		
Temp-erature	Time		Hum-idity	Time			
-20 +50	48Hrs	N/A	N/A	N/A	N/A	N/A	-20 50

<Remark : Temperature change Test Graph >



4.4 Test result

According to criterion description stated in the section 2.2, the initial measurements, intermediate measurements and final measurements were measured as follows.

EUT	Initial Measurements	Intermediate Measurements	Final Measurements
Sample1	PASS	PASS	PASS

Jin-Won Seo

 Tested by: Jin-Won Seo/ Test Engineer

4.5 Temperature change Test data

14:51	-20.0°C	---	03:51	-20.0°C	---	16:41	50.0°C	---	05:41	50.0°C	---
15:01	-20.0°C	---	04:01	-20.0°C	---	16:51	50.0°C	---	05:51	50.0°C	---
15:11	-20.0°C	---	04:11	-20.0°C	---	17:01	50.0°C	---	06:01	50.0°C	---
15:21	-20.0°C	---	04:21	-20.0°C	---	17:11	50.0°C	---	06:11	50.0°C	---
15:31	-20.0°C	---	04:31	-20.0°C	---	17:21	50.0°C	---	06:21	50.0°C	---
15:41	-20.0°C	---	04:41	-20.0°C	---	17:31	50.0°C	---	06:31	50.0°C	---
15:51	-20.0°C	---	04:51	-20.0°C	---	17:41	50.0°C	---	06:41	50.0°C	---
16:01	-20.0°C	---	05:01	-19.9°C	---	17:51	50.0°C	---	06:51	50.0°C	---
16:11	-20.0°C	---	05:11	-20.0°C	---	18:01	50.0°C	---	07:01	50.9°C	---
16:21	-19.9°C	---	05:21	-20.0°C	---	18:11	50.0°C	---	07:11	50.9°C	---
16:31	-20.0°C	---	05:31	-20.0°C	---	18:21	50.0°C	---	07:21	50.0°C	---
16:41	-20.0°C	---	05:41	-20.0°C	---	18:31	50.0°C	---	07:31	50.0°C	---
16:51	-19.9°C	---	05:51	-19.9°C	---	18:41	50.9°C	---	07:41	50.0°C	---
17:01	-20.0°C	---	06:01	-19.9°C	---	18:51	50.0°C	---	07:51	50.0°C	---
17:11	-20.0°C	---	06:11	-20.0°C	---	19:01	50.0°C	---	08:01	50.0°C	---
17:21	-20.0°C	---	06:21	-20.0°C	---	19:11	50.9°C	---	08:11	50.9°C	---
17:31	-20.0°C	---	06:31	-19.9°C	---	19:21	50.9°C	---	08:21	50.0°C	---
17:41	-20.0°C	---	06:41	-20.0°C	---	19:31	50.0°C	---	08:31	50.9°C	---
17:51	-20.0°C	---	06:51	-20.0°C	---	19:41	50.0°C	---	08:41	50.0°C	---
18:01	-20.0°C	---	07:01	-20.0°C	---	19:51	50.9°C	---	08:51	50.0°C	---
18:11	-19.9°C	---	07:11	-20.0°C	---	20:01	50.9°C	---	09:01	50.0°C	---
18:21	-20.0°C	---	07:21	-20.0°C	---	20:11	50.0°C	---	09:11	50.9°C	---
18:31	-20.0°C	---	07:31	-20.0°C	---	20:21	50.0°C	---	09:21	50.0°C	---
18:41	-19.9°C	---	07:41	-20.0°C	---	20:31	50.0°C	---	09:31	50.0°C	---
18:51	-20.0°C	---	07:51	-20.0°C	---	20:41	50.0°C	---	09:41	50.0°C	---
19:01	-20.0°C	---	08:01	-20.0°C	---	20:51	50.0°C	---	09:51	50.9°C	---
19:11	-20.0°C	---	08:11	-20.0°C	---	21:01	50.0°C	---	10:01	50.0°C	---
19:21	-19.9°C	---	08:21	-19.9°C	---	21:11	50.9°C	---	10:11	50.0°C	---
19:31	-19.9°C	---	08:31	-19.9°C	---	21:21	50.0°C	---	10:21	50.0°C	---
19:41	-20.0°C	---	08:41	-20.0°C	---	21:31	50.9°C	---	10:31	50.0°C	---
19:51	-19.9°C	---	08:51	-20.0°C	---	21:41	50.0°C	---	10:41	50.9°C	---
20:01	-20.0°C	---	09:01	-20.0°C	---	21:51	50.0°C	---	10:51	50.9°C	---
20:11	-19.9°C	---	09:11	-20.0°C	---	22:01	50.0°C	---	11:01	50.0°C	---
20:21	-20.0°C	---	09:21	-19.9°C	---	22:11	50.0°C	---	11:11	50.0°C	---
20:31	-20.0°C	---	09:31	-19.9°C	---	22:21	50.9°C	---	11:21	50.9°C	---
20:41	-20.0°C	---	09:41	-20.0°C	---	22:31	50.0°C	---	11:31	50.0°C	---
20:51	-19.9°C	---	09:51	-20.0°C	---	22:41	50.0°C	---	11:41	50.0°C	---
21:01	-20.0°C	---	10:01	-19.9°C	---	22:51	50.9°C	---	11:51	50.0°C	---
21:11	-20.0°C	---	10:11	-20.0°C	---	23:01	50.0°C	---	12:01	50.0°C	---
21:21	-20.0°C	---	10:21	-20.0°C	---	23:11	50.0°C	---	12:11	50.0°C	---
21:31	-20.0°C	---	10:31	-19.9°C	---	23:21	50.9°C	---	12:21	50.0°C	---
21:41	-20.0°C	---	10:41	-19.9°C	---	23:31	50.0°C	---	12:31	50.0°C	---
21:51	-20.0°C	---	10:51	-20.0°C	---	23:41	50.0°C	---	12:41	50.0°C	---
22:01	-20.0°C	---	11:01	-19.9°C	---	23:51	50.0°C	---	12:51	50.0°C	---
22:11	-19.9°C	---	11:11	-19.9°C	---	00:01	50.0°C	---	13:01	50.0°C	---
22:21	-20.0°C	---	11:21	-20.0°C	---	00:11	50.0°C	---	13:11	50.0°C	---
22:31	-20.0°C	---	11:31	-20.0°C	---	00:21	50.0°C	---	13:21	50.9°C	---
22:41	-20.0°C	---	11:41	-20.0°C	---	00:31	50.9°C	---	13:31	50.0°C	---
22:51	-19.9°C	---	11:51	-19.9°C	---	00:41	50.9°C	---	13:41	50.0°C	---
23:01	-20.0°C	---	12:01	-19.9°C	---	00:51	50.0°C	---	13:51	50.9°C	---
23:11	-19.9°C	---	12:11	-20.0°C	---	01:01	50.0°C	---	14:01	50.0°C	---
23:21	-20.0°C	---	12:21	-20.0°C	---	01:11	50.0°C	---	14:11	50.0°C	---
23:31	-20.0°C	---	12:31	-20.0°C	---	01:21	50.0°C	---	14:21	50.0°C	---
23:41	-20.0°C	---	12:41	-19.9°C	---	01:31	50.0°C	---	14:31	50.9°C	---
23:51	-20.0°C	---	12:51	-20.0°C	---	01:41	50.9°C	---	14:41	50.0°C	---
00:01	-20.0°C	---	13:01	-20.0°C	---	01:51	50.0°C	---	14:51	50.0°C	---
00:11	-20.0°C	---	13:11	-20.0°C	---	02:01	50.0°C	---	15:01	50.9°C	---
00:21	-20.0°C	---	13:21	-19.9°C	---	02:11	50.9°C	---	15:11	50.9°C	---
00:31	-19.9°C	---	13:31	-20.0°C	---	02:21	50.0°C	---	15:21	50.2°C	---
00:41	-20.0°C	---	13:41	-20.0°C	---	02:31	50.9°C	---	15:31	50.7°C	---
00:51	-19.9°C	---	13:51	-19.9°C	---	02:41	50.0°C	---	15:41	50.4°C	---
01:01	-20.0°C	---	14:01	-20.0°C	---	02:51	50.0°C	---	15:51	50.1°C	---
01:11	-20.0°C	---	14:11	-20.0°C	---	03:01	50.0°C	---	16:01	50.0°C	---
01:21	-20.0°C	---	14:21	-20.0°C	---	03:11	50.0°C	---	16:11	50.0°C	---
01:31	-20.0°C	---	14:31	-19.9°C	---	03:21	50.0°C	---			
01:41	-20.0°C	---	14:41	-20.0°C	---	03:31	50.9°C	---			
01:51	-20.0°C	---	14:51	-19.9°C	---	03:41	50.9°C	---			
02:01	-20.0°C	---	15:01	-9.3°C	---	03:51	50.9°C	---			
02:11	-19.9°C	---	15:11	1.9°C	---	04:01	50.0°C	---			
02:21	-19.9°C	---	15:21	13.2°C	---	04:11	50.0°C	---			
02:31	-20.0°C	---	15:31	20.7°C	---	04:21	50.0°C	---			
02:41	-20.0°C	---	15:41	30.4°C	---	04:31	50.0°C	---			
02:51	-20.0°C	---	15:51	42.1°C	---	04:41	50.0°C	---			
03:01	-20.0°C	---	16:01	50.0°C	---	04:51	50.0°C	---			
03:11	-20.0°C	---	16:11	50.0°C	---	05:01	50.9°C	---			
03:21	-19.9°C	---	16:21	50.9°C	---	05:11	50.0°C	---			
03:31	-20.0°C	---	16:31	50.0°C	---	05:21	50.0°C	---			
03:41	-19.9°C	---				05:31	50.9°C	---			

APPENDIX - PHOTO OF TEST SETUP