

ONETECH

Accredited Testing Laboratory under the terms of ISO/IEC 17025

ENVIRONMENTAL TEST REPORT

for

PRODUCT: ACCESS CONTROL SYSTEM

“MODEL NAME(S): BioStation”

AUTHORIZED

Suprema Inc.

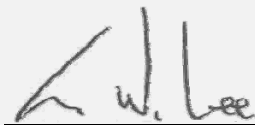
16F Parkview Office Tower, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-863 Korea

DECEMBER 26, 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-017

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Reliability-001(Rev.1)

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TEST REPORT**Report No**: R07DR-017

Date of issue: 2007-12-26

Testing Laboratory: ONETECH Corp.

AGR. No.: A07DA-067

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).....: 8 Pages

Number of pages (Attachments): N/A

Prepared by.....:



(+ signature)

K. D. KIM / Engineer

Reviewed by.....:



(+ signature)

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
- . Fax No. : +82-31-783-4506

2. TEST SUMMARY**2.1 Test items and results**

STANDARS	Test Items	Results
The specification supplied by the manufacturer	Vibration Test	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 : <input checked="" type="checkbox"/> The regulations of preconditioning is required : <input type="checkbox"/>
	Contents	N/A
Intermediate Measurements	Regulations	The regulation of intermediate measurements is not required : <input checked="" type="checkbox"/> The regulation of intermediate measurements is required : <input type="checkbox"/>
	Contents	N/A
Recovery	Regulations	The regulation of recovery is not required : <input checked="" type="checkbox"/> The regulation of recovery is required : <input type="checkbox"/>
	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 : BioStation
- Brand Name : N/A
- Serial number : N/A
- Manufacturer : Suprema Inc.

3.2 Configuration

Model	Manufacturer	Description	Connected to
BioStation	Suprema Inc.	Access Control System(EUT)	-

3.3 Mode of operation during the test

-N/A

3.4 EUT Modifications

-N/A

3.5 Difference of basic model and alternate model

-N/A

4. VIBRATION TEST

The **Vibration test** was carried out in an environmental test room of EMC site.

Date: December 19, 2007

4.1 Environmental condition

Ambient temperature 22 [°C]

Relative humidity 42 [%]

4.2 Test equipment used

Model Number	Manufacturer	Description	Serial Number
■ DS-642-919-24M-HV	THERMOTRON	VIBRATION TESTER	0025388
■ 6251-10	Endevco	VIBRATION SENSOR	10128

4.3 Test condition

4.3.1 Detailed test condition

Items	Descriptions
Standard	The specification supplied by the manufacturer
Operational mode of EUT	Non-operational test : <input checked="" type="checkbox"/> Operational test : <input type="checkbox"/>
Packaged state of EUT	Non-packed test : <input type="checkbox"/> Packed test : <input checked="" type="checkbox"/>
Initial Measurements	There is same as the initial measurements stated in the section 2.3.
Preconditioning	Regulations The regulations of preconditioning is not required : <input checked="" type="checkbox"/> The regulations of preconditioning is required : <input type="checkbox"/>
	Contents N/A
Intermediate Measurements	Regulations The regulation of intermediate measurements is not required : <input checked="" type="checkbox"/> The regulation of intermediate measurements is required : <input type="checkbox"/>
	Contents N/A
Recovery	Regulations The regulation of recovery is not required : <input checked="" type="checkbox"/> The regulation of recovery is required : <input type="checkbox"/>
	Contents N/A
Final Measurements	There is same as the initial measurements stated in the section 2.3.

4.3.2 Test severities

Test Items		Duration [min]			Frequency [Hz]	Sweep Time [oct/min]	Direction			Vibration Type	Amplitude	
		X	Y	Z			X	Y	Z		[mm]	[G]
Non-Operational test	Non-Packed Test	N/A	N/A	N/A	N/A	N/A	○	○	○	N/A	N/A	N/A
	Packed Test	60	60	60	10~100	1	●	●	●	ACC	N/A	2
Operational test	Non-Packed test	N/A	N/A	N/A	N/A	N/A	○	○	○	N/A	N/A	N/A
	Packed test	N/A	N/A	N/A	N/A	N/A	○	○	○	N/A	N/A	N/A

4.4 Test result

According to criterion description stated in the section 2.3, the initial measurements, intermediate measurements and final measurements were measured as follows.

EUT	Initial Measurements	Intermediate Measurements	Final Measurements
Sample 1	PASS	N/A	PASS



Tested by: Kap-Dong Kim/ Test Engineer

APPENDIX | - PHOTO OF TEST SETUP (VIBRATION TEST)

