



Accredited Testing Laboratory under the terms of ISO/IEC 17025

ENVIRONMENTAL TEST REPORT

for

Product: NETWORK CAMERA

“MODEL NAME(S): SNP-6201H”

APPLICANT

SAMSUNG TECHWIN CO., Ltd.

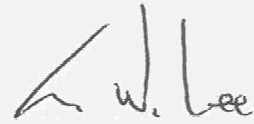
Samsungtechwin R& D Center, 6 Pangyo-ro 319 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

2013. 08. 05

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)

Goan Woo Lee / Managing Director

This is only valid in connection with Test Report: R138R-007

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Reliability-001(Rev.3)

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TEST REPORT

Report No: R138R-007

Date of issue: August 05, 2013

Testing Laboratory: ONETECH Corp.

AGR. No.: A138A-003

Address: 301-14 Daessangnyeong-ri, Chowol-eup, Gwangju-si, Gyeonggi-do 464-862 Korea

Test location: Same as above

Applicant: SAMSUNG TECHWIN Co., Ltd.

Address.....: Samsungtechwin R&D Center, 6 Pangyo-ro 319 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, KOREA

Standard: KS C IEC 60529:2006

Purpose of use: Quality Control

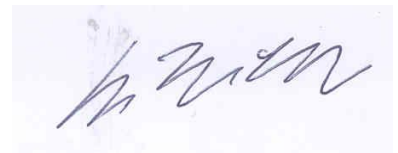
Number of pages (Report).....: 7 Pages

Number of pages (Attachments).....: N/A

Prepared by



Reviewed by:



(+ signature) Dong Kyun Park / Engineer

(+ signature) Jin Won Seo / Project Engineer

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1. CLIENT AND MANUFACTURER INFORMATION

- Applicant : SAMSUNG TECHWIN C., Ltd.
- Address : Samsungtechwin R&D Center, 6 Pangyo-ro 319 beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, KOREA
- Manufacturer : - SAMSUNG TECHWIN Co., Ltd.
- TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC Co., Ltd
- Address : - 42, Sungju-dong, Changwon-si, Kyongsangnam-do, KOREA
- NO.11 Weiliu Road, Micro-Electronic Industrial Park Jingang Road Tianjin CHINA
- Name of contact : Mr. Jea Soon-Kang
- Telephone No. : +82-70-7147-8361
- Fax No. : -

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

Standards	Test Items	Results
KS C IEC 60529:2006	Degrees of protection provided by enclosures (IP66)	PASS

2.2 deviations, exclusions from standards

No deviations or exclusions have been made from standard.

3. EUT (Equipment Under Test)

3.1 Identification of EUT

- Equipment : NETWORK CAMERA
- Type/model : SNP-6201H
- Brand Name : N/A
- Serial number : N/A
- Additional Model : SCP-2373H, SCP-2273H, SCP-5430H, SCP-5370H, SCP-6322H, SNP-6320H, SNP-5430H
- * Model difference : Model SNP-6201H is basic model, which was tested and it was the representative of the other model.
-Model SCP-2373H, SCP-2273H, SCP-5430H, SCP-5370H, SCP-6322H, SNP-6320H, SNP-5430H are identical to basic model SNP-6201H except for PCB Circuit only.

3.2 Configuration

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
SNP-6201H	SAMSUNG TECHWIN Co., Ltd. / TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC Co., Ltd	NETWORK CAMERA (EUT)	-

4. DEGREES OF PROTECTION PROVIDED BY ENCLOSURES TEST (IP66)

The Degrees of protection provided by enclosures Test (IP66) was performed at ONETECH Corp.

Date : August 02 ~05, 2013

4.1 Environmental condition

Ambient temperature 25 °C
Relative humidity 50 % R.H.

4.2 Test equipment used

Model Number	Manufacturer	Description	Serial Number
■ -	DAEKYUNG	JET NOZZLE SET(12.5 mm)	-
■ SOC-300DSEM	SCM	DUST CHAMBER	SOC-11-43-10DSEM

4.3 Test condition

4.3.1 Dust Test

Items		Descriptions
1st Characteristic Numbers		6
Enclosures Category		<input checked="" type="checkbox"/> Category 1 <input type="checkbox"/> Category 2 <input type="checkbox"/> Category 1 and Category 2
Test Condition		-Wire diameter: 50 μm -Width between wires: 75 μm -Amount of talcum powder of the test chamber: 2 kg/m^3
Method	Category 1	<input type="checkbox"/> If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h. <input checked="" type="checkbox"/> 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	<input type="checkbox"/> 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.
Acceptance Conditions		The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

4.3.2 Water Test

Items	Descriptions
2st Characteristic Numbers	6
Test Condition	<ul style="list-style-type: none"> -Internal diameter of the nozzle: 12.5 mm -Delivery rate: 100 l/min \pm 5 % -Distance from nozzle to enclosure surface: Between 2.5 m & 3 m -The duration of the test: 3 min
Acceptance Conditions	<ul style="list-style-type: none"> -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. -Reach live parts or windings not designed to operate when wet. -Accumulate near the cable end or enter the cable if any.

4.4 Test result

Item	IP Code	Result
SNP-6201H	IP66	Pass



Tested by: Dong Kyun Park / Test Engineer

APPENDIX | - PHOTO OF IP66 TEST



DUST



WATER