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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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, Kyoungsangnam-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.

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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)	-

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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 ℃

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		■ 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 hou, 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.
Acceptance Conditions		The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

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4.3.2 Water Test

Items	Descriptions
2st Characteristic Numbers	6
Test Condition	-Internal diameter of the nozzle: 12.5 mm -Delivery rate: 100 l/min ± 5 % -Distance grom nozzle to enclosure surface: Between 2.5 m & 3 m -The duration of the test: 3 min
Acceptance Conditions	-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

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APPENDIX Ⅰ - PHOTO OF IP66 TEST

DUST

WATER

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