



Accredited Testing Laboratory under the terms of ISO/IEC 17025

ENVIRONMENTAL TEST REPORT

for

Product: Network Camera

“MODEL NAME(S): SNO-L6083R”

AUTHORIZED

SAMSUNG TECHWIN CO., Ltd

Samsung techwin R & D Center, 6 Pangyo-ro 319 beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do, Koera

March 03, 2015

Test Results

“Refer to the test results attached”

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3. This report has included the test result according to the testing methods or standards which are suggested from client.

(signature)

Jin Won Seo / Technical Manager

This is only valid in connection with Test Report: R153R-D013

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Reliability-001(Rev.3)

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TEST REPORT

Report No : R153R-D013

Date of issue : March 03, 2015

Testing Laboratory : ONETECH

AGR. No.: A152A-180

Address : 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do
464-862 Korea

Applicant..... : SAMSUNG TECHWIN CO., Ltd

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

Standard..... : KS C IEC 60529:2006 / IP66

Purpose of use : Quality Control

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Prepared by :

Reviewed by..... :




(+ signature) Dong Kyun Park / Engineer

(+ signature) Jin Won Seo / Technical Manager

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1. CLIENT AND MANUFACTURER INFORMATION

- Applicant : SAMSUNG TECHWIN CO., Ltd
- Address : Samsung techwin R & D Center, 6 Pangyo-ro 319 beon-gil Bundang-gu, Seongnam-si,
Gyeonggi-do, Koera
- Manufacturer : SAMSUNG TECHWIN CO., Ltd
- Address : 42, Sungju-dong, Changwon-si, Kyongsangnam-do, Korea
- Name of contact : jea soon Kang / Principal Engineer / js2002.kang@samsung.com

2. TEST SUMMARY

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

3. EUT (Equipment Under Test)

3.1 Identification of EUT

- Equipment : Network Camera
- Type/model : SNO-L6083R

3.2 Configuration

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

Model	Manufacturer	Description	Connected to
SNO-L6083R	SAMSUNG TECHWIN 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: March 02 ~ March 03, 2015

4.1 Environmental condition

Ambient temperature 23 °C
Relative humidity 45 % 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		IP6X
Enclosures Category		☒ Category 1 ☐ Category 2 ☐ 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	☐ 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.
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
2nd Characteristic Numbers	IPX6
Test Condition	-Internal diameter of the nozzle: 12.5 mm -Delivery rate: 100 l/min $\pm$ 5 % -Distance nozzle to enclosure surface: Between 2.5 m & 3 m -The duration of the test: 3 min
Acceptance Conditions	-In general, if any water has entered, it shall not; -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
SNO-L6083R	IP66	Pass



Tested by: Dong Kyun Park / Test Engineer

APPENDIX I - PHOTO OF EUT



APPENDIX II - PHOTO OF IP66 TEST



IP6X



IPX6

APPENDIX III - PHOTO OF INSIDE AFTER IP66 TEST



APPENDIX IV - DRAWING

