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Report No.: T191018D01-MF

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IEEE C95.1 2005
KDB 447498 D03
47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

Outdoor Camera

Model: SCE2R0-29xxxxx (the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)

Trade Name: ADT

Issued to

Sercomm Corporation
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Issued by

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Wugu Laboratory
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Issue Date: November 26, 2019

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	November 26, 2019	Initial Issue	ALL	Allison Chen



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1. TEST RESULT CERTIFICATION

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
IEEE C95.1 2005 KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

Approved by:

Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

Reporter:

Allison Chen
Report coordinator
Compliance Certification Services Inc.



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2. LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

3. EUT SPECIFICATION

EUT	Outdoor Camera									
Model	SCE2R0-29xxxxx (the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)									
Model Discrepancy	All the above models are identical except for the designation of model numbers. The suffix of (the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose) on model number is just for marketing purpose only.									
Frequency band (Operating)	☐ Bluetooth: 2402MHz-2480MHz ☒ 802.11b/g/n HT20: 2412MHz ~ 2462 MHz ☐ 802.11n HT40: 2422MHz ~ 2452MHz 802.11a/n HT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5700MHz / 5745MHz ~ 5825MHz 802.11n HT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5670MHz / 5755MHz ~ 5795MHz 802.11ac VHT80: 5210MHz / 5290MHz / 5530MHz / 5775MHz ☐ Others									
Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others									
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm ²) ☒ General Population/Uncontrolled exposure (S=1mW/cm ²)									
Antenna Specification	2.4GHz: Antenna Gain : 3.33 dBi (Numeric gain 2.15)									
Maximum average output power	<table border="1"> <tr> <td>IEEE 802.11b Mode:</td><td>24.16 dBm</td><td>(260.615 mW)</td></tr> <tr> <td>IEEE 802.11g Mode:</td><td>23.50 dBm</td><td>(223.872 mW)</td></tr> <tr> <td>IEEE 802.11n HT 20 Mode:</td><td>23.61 dBm</td><td>(229.615 mW)</td></tr> </table>	IEEE 802.11b Mode:	24.16 dBm	(260.615 mW)	IEEE 802.11g Mode:	23.50 dBm	(223.872 mW)	IEEE 802.11n HT 20 Mode:	23.61 dBm	(229.615 mW)
IEEE 802.11b Mode:	24.16 dBm	(260.615 mW)								
IEEE 802.11g Mode:	23.50 dBm	(223.872 mW)								
IEEE 802.11n HT 20 Mode:	23.61 dBm	(229.615 mW)								
Maximum tune up power	<table border="1"> <tr> <td>IEEE 802.11b Mode:</td><td>26.00 dBm</td><td>(398.107 mW)</td></tr> <tr> <td>IEEE 802.11g Mode:</td><td>25.40 dBm</td><td>(346.737 mW)</td></tr> <tr> <td>IEEE 802.11n HT 20 Mode:</td><td>25.40 dBm</td><td>(346.737 mW)</td></tr> </table>	IEEE 802.11b Mode:	26.00 dBm	(398.107 mW)	IEEE 802.11g Mode:	25.40 dBm	(346.737 mW)	IEEE 802.11n HT 20 Mode:	25.40 dBm	(346.737 mW)
IEEE 802.11b Mode:	26.00 dBm	(398.107 mW)								
IEEE 802.11g Mode:	25.40 dBm	(346.737 mW)								
IEEE 802.11n HT 20 Mode:	25.40 dBm	(346.737 mW)								
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A									

4. TEST RESULTS

No non-compliance noted.

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using $d = 20$ cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

IEEE 802.11b mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
1	2412	398.107	2.15	20	0.1703	1

IEEE 802.11g mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
1	2412	346.737	2.15	20	0.1484	1

IEEE 802.11n HT20 mode:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)
6	2437	346.737	2.15	20	0.1484	1

--End of Report--