



FCC ID: P27SCD2R0
Report No.: T191018D02-MF

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Rev.: 00

**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

Doorbell Camera

Model: SCD2R0-29xxxxx(the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for the marketing purpose)

Trade Name: ADT

Issued to

**Sercomm Corporation
8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan**

Issued by

**Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)
Issue Date: December 13, 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 | December 13, 2019 | Initial Issue | ALL | Doris Chu |



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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.

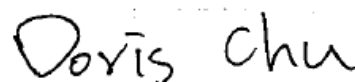
| APPLICABLE STANDARDS | |
|---|-------------------------|
| STANDARD | TEST RESULT |
| IEEE C95.1 2005 KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091 | No non-compliance noted |
| Statements of Conformity | |
| Determination of compliance is based 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:



Doris Chu
Report coordinator
Compliance Certification Services Inc.

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 | Doorbell Camera | | | | | | | | | | | |
| Model | SCD2R0-29xxxxx(the 1st x should be "blank" or "-"; the rest x could be 0 to 9, A to Z, a to z, "blank" or "-", for the 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) | <input type="checkbox"/> Bluetooth: 2402MHz-2480MHz <input checked="" type="checkbox"/> 802.11b/g/n HT20: 2412MHz ~ 2462 MHz <input type="checkbox"/> 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 <input type="checkbox"/> Others | | | | | | | | | | | |
| Device category | <input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others | | | | | | | | | | | |
| Exposure classification | <input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> 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>25.22 dBm</td><td>(332.660 mW)</td></tr> <tr> <td>IEEE 802.11g Mode:</td><td>23.15 dBm</td><td>(206.538 mW)</td></tr> <tr> <td>IEEE 802.11n HT 20 Mode:</td><td>23.22 dBm</td><td>(209.894 mW)</td></tr> </table> | | | IEEE 802.11b Mode: | 25.22 dBm | (332.660 mW) | IEEE 802.11g Mode: | 23.15 dBm | (206.538 mW) | IEEE 802.11n HT 20 Mode: | 23.22 dBm | (209.894 mW) |
| IEEE 802.11b Mode: | 25.22 dBm | (332.660 mW) | | | | | | | | | | |
| IEEE 802.11g Mode: | 23.15 dBm | (206.538 mW) | | | | | | | | | | |
| IEEE 802.11n HT 20 Mode: | 23.22 dBm | (209.894 mW) | | | | | | | | | | |
| Maximum tune up power | <table border="1"> <tr> <td>IEEE 802.11b Mode:</td><td>26.90 dBm</td><td>(489.779 mW)</td></tr> <tr> <td>IEEE 802.11g Mode:</td><td>24.70 dBm</td><td>(295.121 mW)</td></tr> <tr> <td>IEEE 802.11n HT 20 Mode:</td><td>24.70 dBm</td><td>(295.121 mW)</td></tr> </table> | | | IEEE 802.11b Mode: | 26.90 dBm | (489.779 mW) | IEEE 802.11g Mode: | 24.70 dBm | (295.121 mW) | IEEE 802.11n HT 20 Mode: | 24.70 dBm | (295.121 mW) |
| IEEE 802.11b Mode: | 26.90 dBm | (489.779 mW) | | | | | | | | | | |
| IEEE 802.11g Mode: | 24.70 dBm | (295.121 mW) | | | | | | | | | | |
| IEEE 802.11n HT 20 Mode: | 24.70 dBm | (295.121 mW) | | | | | | | | | | |
| Evaluation applied | <input checked="" type="checkbox"/> MPE Evaluation* <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> 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 | 489.779 | 2.15 | 20 | 0.2096 | 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 | 295.121 | 2.15 | 20 | 0.1263 | 1 |

IEEE 802.11n HT20 mode:

| Ch. | Frq.(MHz) | P (mW) | Gain (num.) | D (cm) | Power density in mW / cm ² | Limit (mW/cm2) |
|-----|-----------|---------|-------------|--------|---------------------------------------|----------------|
| 1 | 2412 | 295.121 | 2.15 | 20 | 0.1263 | 1 |

--End of Report--