



FCC ID: P27DBC831V2  
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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

| Product Name                 | Model Name                                                                                                                               | Trade Name      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Wireless FHD Doorbell Camera | DBC831v2xxxxxxxx (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 | Scout; Sercomm  |
| HD Video Doorbell            | SCD1R0-29                                                                                                                                | LifeShield, LLC |

Issued to

**Sercomm Corporation**  
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Issued by

**Compliance Certification Services Inc.**  
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Issued Date: March 15, 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   | March 15, 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<br>KDB 447498 D03<br>47 C.F.R. Part 1, Subpart I, Section 1.1310<br>47 C.F.R. Part 2, Subpart J, Section 2.1091 | No non-compliance noted |

Approved by:

Reporter:

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Kevin Tsai  
Deputy Manager  
Compliance Certification Services Inc.

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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

|                                   |                                                                                                                                                                                               |                              |                   |                                                                                                                                                                    |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT</b>                        | 1) Wireless FHD Doorbell Camera<br>2) HD Video Doorbell                                                                                                                                       |                              |                   |                                                                                                                                                                    |
| <b>Model</b>                      | 1) DBC831v2xxxxxxx (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.<br>2) SCD1R0-29                                   |                              |                   |                                                                                                                                                                    |
| <b>Model Discrepancy</b>          | <b>Model Name</b>                                                                                                                                                                             | <b>Product Name</b>          | <b>Brand Name</b> | <b>Difference</b>                                                                                                                                                  |
|                                   | DBC831v2xxxxxxx (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)                                                       | Wireless FHD Doorbell Camera | Scout; Sercomm    | 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 "-") on model number is just for marketing purpose only. |
|                                   | SCD1R0-29                                                                                                                                                                                     | HD Video Doorbell            | LifeShield, LLC   | Brand name difference                                                                                                                                              |
| <b>Frequency band (Operating)</b> | <input checked="" type="checkbox"/> IEEE 802.11b/g/n HT20 Mode: 2.412GHz ~ 2.462GHz<br>IEEE 802.11n HT40 Mode: 2.422GHz ~ 2.452GHz<br><input type="checkbox"/> Others                         |                              |                   |                                                                                                                                                                    |
| <b>Device category</b>            | <input type="checkbox"/> Portable (<20cm separation)<br><input checked="" type="checkbox"/> Mobile (>20cm separation)<br><input type="checkbox"/> Others                                      |                              |                   |                                                                                                                                                                    |
| <b>Exposure classification</b>    | <input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm <sup>2</sup> )<br><input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm <sup>2</sup> ) |                              |                   |                                                                                                                                                                    |
| <b>Antenna Specification</b>      | Gain : 3.11 dBi (Numeric gain: 2.05)<br>Dipole Antenna                                                                                                                                        |                              |                   |                                                                                                                                                                    |
| <b>Tune-up max. Average Power</b> | IEEE 802.11b Mode: 23.00 dBm (199.526 mW)<br>IEEE 802.11g Mode: 20.00 dBm (100.000 mW)<br>IEEE 802.11n HT 20 Mode: 20.00 dBm (100.000 mW)                                                     |                              |                   |                                                                                                                                                                    |
| <b>Evaluation applied</b>         | <input checked="" type="checkbox"/> MPE Evaluation*<br><input type="checkbox"/> SAR Evaluation<br><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 / cm<sup>2</sup>

## 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 / cm<sup>2</sup>

### IEEE 802.11b Mode:

| Ch. | Frq.(MHz) | P (mW)  | Gain (num.) | D (cm) | Power density in mW / cm <sup>2</sup> | Limit (mW/cm <sup>2</sup> ) |
|-----|-----------|---------|-------------|--------|---------------------------------------|-----------------------------|
| 6   | 2437      | 199.526 | 2.05        | 20     | 0.0814                                | 1.000                       |

### IEEE 802.11g Mode:

| Ch. | Frq.(MHz) | P (mW)  | Gain (num.) | D (cm) | Power density in mW / cm <sup>2</sup> | Limit (mW/cm <sup>2</sup> ) |
|-----|-----------|---------|-------------|--------|---------------------------------------|-----------------------------|
| 6   | 2437      | 100.000 | 2.05        | 20     | 0.0408                                | 1.000                       |

### IEEE 802.11n HT20 Mode:

| Ch. | Frq.(MHz) | P (mW)  | Gain (num.) | D (cm) | Power density in mW / cm <sup>2</sup> | Limit (mW/cm <sup>2</sup> ) |
|-----|-----------|---------|-------------|--------|---------------------------------------|-----------------------------|
| 6   | 2437      | 100.000 | 2.05        | 20     | 0.0408                                | 1.000                       |