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Report No.: GZEM190601381903  
Page: 1 of 12

## TEST REPORT

**Application No.:** GZEM1906013819CR  
**Applicant:** Shenzhenshi DajieKejiYouxianGongsi  
**Address of Applicant:** Longhuaxinqu Minzhijiedao HUANGJIA shangyeguangchang B711  
SHENZHEN, GUANGDONG 518000 CN  
**Manufacturer:** The same as applicant  
**Address of Manufacturer:** The same as applicant  
**Factory:** The same as applicant  
**Address of Factory:** The same as applicant  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless Security Camera  
**Model No.:** SC210, SC220, SC410, PC420, PC530, PC540, PC660, PC650, EC730,  
EC750. ☐  
☐ Please refer to section 2 of this report which indicates which model was  
actually tested and which were electrically identical.  
**Trade Mark:** Victure  
**Standard(s) :** 47 CFR Part 1.1307, Part 1.1310  
**Date of Receipt:** 2019-06-25  
**Date of Test:** 2019-07-02 to 2019-08-07  
**Date of Issue:** 2019-08-09

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

*Kobe Jian*

Kobe Jian

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2019-08-09 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                                 |                                      |  |                          |
|---------------------------------|--------------------------------------|--|--------------------------|
| <b>Authorized for issue by:</b> |                                      |  |                          |
| <b>Tested By</b>                |                                      |  | 2019-07-02 to 2019-08-07 |
|                                 | <b>Kevin_Zhang /Project Engineer</b> |  | <b>Date</b>              |
| <b>Checked By</b>               |                                      |  | 2019-08-09               |
|                                 | <b>Ricky_Liu /Reviewer</b>           |  | <b>Date</b>              |



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## 2 Test Summary

| Radio Spectrum Technical Requirement |                                    |                    |                    |        |
|--------------------------------------|------------------------------------|--------------------|--------------------|--------|
| Item                                 | Standard                           | Method             | Requirement        | Result |
| RF Exposure                          | 47 CFR Part 1.1307,<br>Part 1.1310 | CFR 47 Part 1.1310 | CFR 47 Part 1.1310 | Pass   |

### ▣ Declaration of EUT Family Grouping:

**Model No.:** SC210, SC220, SC410, PC420, PC530, PC540, PC660, PC650, EC730, EC750

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only differences on the outer decoration and colour.

Therefore only one model **SC210** was tested in this report.



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## 4 General Information

### 4.1 Details of E.U.T.

|                      |  |
|----------------------|--|
| Power Supply:        | AC 100-240V 50/60Hz by Adapter             |
|                      | Details of Adapter:                        |
|                      | Model:TPA-46B050100UU                      |
|                      | Input:100-240v 50/60Hz 0.2A                |
|                      | Output:5.0V 1000mA                         |
| Test Voltage:        | AC 120V 60Hz                               |
| Cable:               | USB cable (unshielded, 2m)                 |
|                      | RJ45                                       |
|                      | Power interface                            |
|                      | Micro SD slot                              |
| Antenna Gain:        | 3dBi                                       |
| Antenna Type:        | Integrated Antenna                         |
| Channel Spacing:     | 5MHz                                       |
| Modulation Type:     | 802.11b: DSSS (CCK, DQPSK, DBPSK)          |
|                      | 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Number of Channels:  | 802.11b/g/n(HT20):11                       |
|                      | 802.11n(HT40):7                            |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz      |
|                      | 802.11n(HT40): 2422MHz to 2452MHz          |

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.



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### 4.3 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty         |
|-----|---------------------------------|---------------------------------|
| 1   | Radio Frequency                 | $\pm 5.5 \times 10^{-8}$        |
| 2   | Duty cycle                      | $\pm 0.57\%$                    |
| 3   | Occupied Bandwidth              | $\pm 3\%$                       |
| 4   | RF Conducted power              | $\pm 0.68\text{dB}$             |
| 5   | RF Power Density                | $\pm 1.50\text{dB}$             |
| 6   | Conducted Spurious Emissions    | $\pm 1.04\text{dB}$             |
| 7   | RF Radiated Power               | $\pm 4.5\text{dB}$ (below 1GHz) |
|     |                                 | $\pm 4.8\text{dB}$ (above 1GHz) |
| 8   | Radiated Spurious Emission Test | $\pm 4.5\text{dB}$ (30MHz-1GHz) |
|     |                                 | $\pm 4.8\text{dB}$ (1GHz-18GHz) |
| 9   | Temperature                     | $\pm 0.4^\circ\text{C}$         |
| 10  | Humidity                        | $\pm 1.3\%$                     |
| 11  | Supply Voltages                 | $\pm 1.5\%$                     |
| 12  | Time                            | $\pm 3\%$                       |

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| General used equipment |              |          |              |            |              |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment              | Manufacturer | Model No | Inventory No | Cal Date   | Cal Due Date |
| DMM                    | Fluke        | 73       | EMC0006      | 2019-07-16 | 2020-07-15   |
| DMM                    | Fluke        | 73       | EMC0007      | 2019-07-16 | 2020-07-15   |



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## 6 Radio Spectrum Technical Requirement

### 6.1 RF Exposure

#### 6.1.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

**TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

| Frequency range (MHz)  | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposure</b>         |                               |                               |                                     |                          |
| 0.3-3.0  | 614                           | 1.63                          | *100                                | 6                        |
| 3.0-30   | 1842/f                        | 4.89/f                        | *900/f <sup>2</sup>                 | 6                        |
| 30-300   | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1,500  |                               |                               | f/300                               | 6                        |
| 1,500-100,000  |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34   | 614                           | 1.63                          | *100                                | 30                       |
| 1.34-30  | 824/f                         | 2.19/f                        | *180/f <sup>2</sup>                 | 30                       |
| 30-300   | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300-1,500  |                               |                               | f/1500                              | 30                       |
| 1,500-100,000  |                               |                               | 1.0                                 | 30                       |
| f = frequency in MHz   |                               |                               |                                     |                          |
| * = Plane-wave equivalent power density                        |                               |                               |                                     |                          |

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

*S* = power density (mW/cm<sup>2</sup>)  
*P* = the net power delivered to the antenna (mW)  
*G* = gain of the antenna in linear scale  
*d* = distance between observation point and center of the radiator (cm)



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**6.1.2 Conclusion**

Refer to Report GZEM190601381902, the max. peak output power is 10.57dBm @11B, 2412MHz

| Mode | Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|------|-----------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 11B  | 2412            | 1.995                  | 10.57                   | 11.402                 | 0.00453                                 | 1  | PASS        |

So the device is exclusion from SAR test.



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## 7 Photographs

### 7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1906013819CR.

--End of Report--



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