

C MRA

ACCREDITED

CERT #3816.01

Report No.: SZCR210602164001

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TEST REPORT

Application No.: SZCR2106021640AT(SHEM2106005833CR)

Applicant: Hangzhou Ezviz Software Co., Ltd.

Address of Applicant: Room 302, Unit B, Building 2,399 Danfeng Road, Binjiang District,

Hangzhou, Zhejiang

Manufacturer: Hangzhou Ezviz Software Co., Ltd.

Address of Manufacturer: Room 302, Unit B, Building 2,399 Danfeng Road, Binjiang District,

Hangzhou, Zhejiang

Equipment Under Test (EUT):

EUT Name: PIR Sensor

Model No.: CS-T1C

Trade mark: EZVIZ

Standard(s): EN 55032:2015+A11:2020

EN 50130-4:2011 +A1:2014

Date of Receipt: 2021-06-11

Date of Test: 2021-06-13 to 2021-06-17

Date of Issue: 2021-06-18

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| Revision Record | | | | | | | |
|---------------------------------|----------|------------|---|--|--|--|--|
| Version Description Date Remark | | | | | | | |
| 00 | Original | 2021-06-18 | / | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-----------------------------|--|
| | Brir Chen | |
| | Bill Chen /Project Engineer | |
| | Eric Fu | |
| | Eric Fu /Reviewer | |



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Test Summary 2

| Emission Part | | | | | | |
|---------------------------------|---------------------------|---------------|-------------|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Radiated Emissions (30MHz-1GHz) | EN 55032:2015+A11:2020 | EN 55032:2015 | Class B | Pass | | |
| Radiated Emissions (above 1GHz) | EN 55032:2015+A11:2020 | EN 55032:2015 | Class B | Pass | | |

| mmunity Part | | | | | | | |
|--|-----------------------------|---------------------------------------|--|--------|--|--|--|
| Item | Standard | Method | Requirement | Result | | | |
| Electrostatic Discharge | EN 50130-4:2011 +A1:2014 | EN 61000-4-2:2009 | 6kV Contact Discharge 2,4,8kV Air Discharge | Pass | | | |
| Radiated Immunity(80MHz- 2.7GHz) | EN 50130-4:2011 +A1:2014 | EN 61000-4-3:2006 +A1:2008+A2:2010 | 10V/m, 80%, 1kHz sinusoidal Amp. Mod. | Pass | | | |

| InternalSource | UpperFrequency |
|------------------|---|
| Below 108MHz | 1GHz |
| 108MHz to 500MHz | 2GHz |
| 500MHz to 1GHz | 5GHz |
| Above 1GHz | 5 times the highest frequency or 6 GHz, whichever is less |



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| | 0.0 | LOT CONCINCOTIONAL DETAILS (LOTT HOTOS) | ∠ ۱ |



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General Information

4.1 Details of E.U.T.

Power supply: DC 3V by Lithium Battery

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|--------------------------------------|-----------|----------------------|
| Home Gateway Hangzhou Ezviz Software Co., Ltd. | | CS-A3 | / |
| Mobile Phone | nubia | Z20 | / |
| Note Book | Acer | ZQT | NXM0QCN01031403EE876 |
| Open/Close Sensor | Hangzhou Ezviz Software Co., Ltd. | CS-T2C | / |
| Smart button | Hangzhou Ezviz Software Co., Ltd. | CS-T3C | / |



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4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|-------------------------------------|---------------------------|
| 4 | Conduction Emission | ± 3.45dB (9kHz to 150kHz) |
| 1 | Conduction Emission | ± 3.0dB (150kHz to 30MHz) |
| | | ± 3.1dB (9kHz-30MHz) |
| 2 | Radiated Emission | ± 4.5dB (30MHz-1GHz) |
| | | ± 4.8dB (1GHz-6GHz) |
| 3 | Radiated Emission (2m Loop antenna) | ± 3.26dB (9kHz-30MHz) |
| 4 | Radiated Power | ± 3.64dB |
| 5 | Harmonics & Flicker | ± 0.068dB |
| 6 | Radiated Immunity | ± 1.64dB |
| 7 | Conducted Immunity | ± 0.96dB |
| 8 | ESD | ± 6 % |
| 9 | EFT (Electrical Fast Transients) | ± 5 % |
| 10 | Surge Immunity | ± 5 % |
| 11 | Voltage Dips and Interruptions | ± 4 % |
| 12 | 20 system | ± 1.5dB |
| 13 | Temperature test | ± 1°C |
| 14 | Humidity test | ± 3% |
| 15 | DC power test | ± 0.5 % |

Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006. IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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Equipment List 5

| | RE in Chamber <1GHz | | | | | | |
|------|-----------------------------------|----------------------|---------------------|---------------|------------|---------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date | |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2020-07-19 | 2023-07-18 | |
| 2 | MXE EMI receiver (3Hz-3.6GHz) | KEYSIGHT | N9038A | SEM004-15 | 2020-11-02 | 2021-11-01 | |
| 3 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-02 | 2019-05-24 | 2022-05-23 | |
| 4 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2021-03-24 | 2022-03-23 | |
| 5 | Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| 6 | Coaxial Cable | SGS | N/A | SEM025- 01 | 2020-07-10 | 2021-07-09 | |

| | RE in Chamber >1GHz | | | | | | |
|------|--------------------------------|--|---------------------|---------------|------------|---------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date | |
| 1 | 3m Semi-Anechoic | AUDIX | N/A | SEM001-02 | 2021-03-12 | 2024-03-11 | |
| | Chamber | | | | | | |
| 2 | EXA Signal Analyzer | Agilent Technologies Inc | N9010A | SEM004-12 | 2021-04-07 | 2024-04-06 | |
| | (10Hz-44GHz) | | | | | | |
| 3 | Horn Antenna (800MHz-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2021-04-12 | 2024-04-11 | |
| 4 | Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEM004-11 | 2020-09-23 | 2021-09-22 | |
| 5 | Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| 6 | Coaxial Cable | SGS | N/A | SEM026-01 | 2020-07-10 | 2021-07-09 | |

| | ESD | | | | | |
|------|----------------|--------------|-----------|---------------|------------|---------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date |
| 1 | ESD Generator | TESEQ AG | NSG 437 | SEM019-02 | 2021-04-16 | 2022-04-15 |



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| | Radiated Immunity | | | | | |
|------|--|--------------------------|-------------------|---------------|------------------------|----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 1 | Fully-Anechoic Chamber 2 | Chang Zhou Zhong Shuo | 854 | SEM001-05 | 2020-07-10 | 2021-07-09 |
| 2 | Power Sensor | Rohde & Schwarz | NRP-Z91 | SEM009-09 | 2021-03-24 | 2022-03-23 |
| 3 | Stacked LogPer Broadband Antenna (70MHz-10GHz) | Schwarzbeck | STLP 9129 | SEM003-25 | N/A | N/A |
| 4 | Signal Generator (9kHz-6GHz) | Rohde & Schwarz | SMB100A | SEM006-11 | 2021-03-24 | 2022-03-23 |
| 5 | Broadband Amplifier (80MHz-1GHz) | Rohde & Schwarz | BBA150-BC250 | SEM005-12 | 2020-09-23 | 2021-09-22 |
| 6 | Broadband Amplifier (800MHz-3GHz) | Rohde & Schwarz | BBA150-D110 | SEM005-13 | 2021-03-24 | 2022-03-23 |
| 7 | Broadband Amplifier (2.5GHz-6GHz) | Rohde & Schwarz | BBA150-E60 | SEM005-16 | 2021-04-08 | 2022-04-07 |
| 8 | Measurement Software | Rohde & Schwarz | EMC32 V9.25.00 | N/A | N/A | N/A |

| | General used equipment | | | | | | | | |
|------|---------------------------------------|---|-----------|---------------|------------|---------------|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date | Cal. Due date | | | |
| 1 | Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2020-09-25 | 2021-09-24 | | | |
| 2 | Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2020-09-25 | 2021-09-24 | | | |
| 3 | Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2020-09-25 | 2021-09-24 | | | |
| 4 | Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2021-04-06 | 2022-04-05 | | | |



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6 **Emission Test Results**

6.1 Radiated Emissions (30MHz-1GHz)

EN 55032:2015+A11:2020 Test Requirement:

Test Method: EN 55032:2015 Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30MHz-230MHz 40 dB(μV/m) quasi-peak 230MHz-1GHz 47 dB(µV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

6.1.1 E.U.T. Operation

Operating Environment:

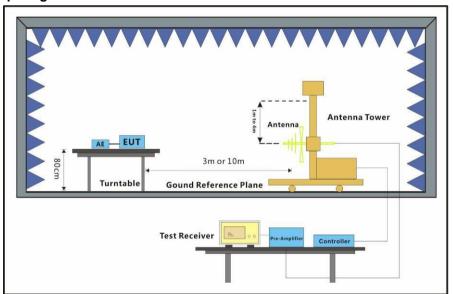
°C Temperature: 24 Atmospheric Pressure: 1010 mbar Humidity: 48 % RH

a:Normal Working_The PIR Sensor, Open/Close Sensor, Smart button connected Test mode

with Home Gateway through ZigBee signal, and the Home Gate way connected with the wireless router through WiFi, use the mobile phone connected with the

router to observe the status information.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

- 1.Result (dBuV/m) = Reading(dBuV) + Correction Factor (dB/m)
- 2.Correction Factor (dB/m)=Antenna Factor (dB/m)+Cable Loss (dB)- Amplifier (dB)



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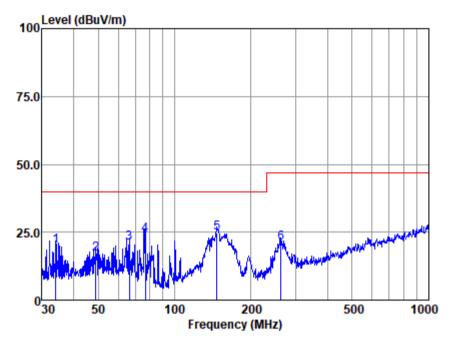
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Mode:a; Polarization:Horizontal



Antenna Polarity : HORIZONTAL EUT/Project :5834CR

Test mode :a

| | | Read | Antenna | Cable | Preamp | Emission | ı Limit | Over | |
|---|---------|-------|---------|-------|--------|----------|---------|--------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 34.037 | 38.56 | 12.36 | 0.82 | 31.79 | 19.95 | 40.00 | -20.05 | QP |
| 2 | 49.014 | 34.47 | 13.66 | 0.99 | 32.06 | 17.06 | 40.00 | -22.94 | QP |
| 3 | 66.266 | 39.09 | 12.21 | 1.18 | 31.43 | 21.05 | 40.00 | -18.95 | QP |
| 4 | 76.512 | 44.03 | 10.06 | 1.28 | 31.44 | 23.93 | 40.00 | -16.07 | QΡ |
| 5 | 146.888 | 41.69 | 12.78 | 1.85 | 31.48 | 24.84 | 40.00 | -15.16 | QΡ |
| 6 | 261.975 | 37.23 | 12.18 | 2.65 | 31.09 | 20.97 | 47.00 | -26.03 | QΡ |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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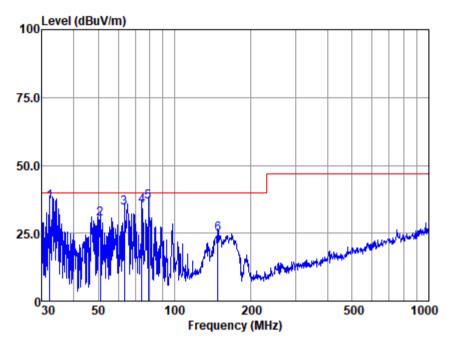
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Mode:a; Polarization:Vertical



Antenna Polarity : VERTICAL EUT/Project :5834CR

Test mode :a

| | | Read | Antenna | Cable | Preamp | Emission | ı Limit | Over | |
|---|---------|-------|---------|-------|--------|----------|---------|--------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 32.179 | 55.34 | 12.29 | 0.81 | 31.80 | 36.64 | 40.00 | -3.36 | QP |
| 2 | 50.942 | 47.69 | 13.64 | 1.02 | 32.01 | 30.34 | 40.00 | -9.66 | QP |
| 3 | 63.313 | 51.99 | 12.62 | 1.15 | 31.49 | 34.27 | 40.00 | -5.73 | QP |
| 4 | 74.396 | 54.30 | 10.58 | 1.26 | 31.11 | 35.03 | 40.00 | -4.97 | QP |
| 5 | 78.689 | 57.00 | 9.53 | 1.30 | 31.45 | 36.38 | 40.00 | -3.62 | QP |
| 6 | 147.921 | 41.37 | 12.82 | 1.85 | 31.44 | 24.60 | 40.00 | -15.40 | QP |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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6.2 Radiated Emissions (above 1GHz)

Test Requirement: EN 55032:2015+A11:2020

Test Method: EN 55032:2015 Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

1GHz-3GHz 70 dB(μV/m) peak, 50 dB(μV/m) average 3GHz-6GHz 74 dB(μV/m) peak, 54dB(μV/m) average

Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 6000MHz Detector:

6.2.1 E.U.T. Operation

Operating Environment:

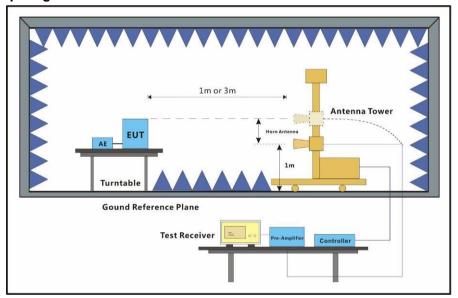
Temperature: Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Normal Working_The PIR Sensor, Open/Close Sensor, Smart button connected

with Home Gateway through ZigBee signal, and the Home Gate way connected with the wireless router through WiFi, use the mobile phone connected with the

router to observe the status information.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

1.Result (dBuV/m) = Reading(dBuV) + Correction Factor (dB/m)

2.Correction Factor (dB/m)=Antenna Factor (dB/m)+Cable Loss (dB)- Amplifier (dB)



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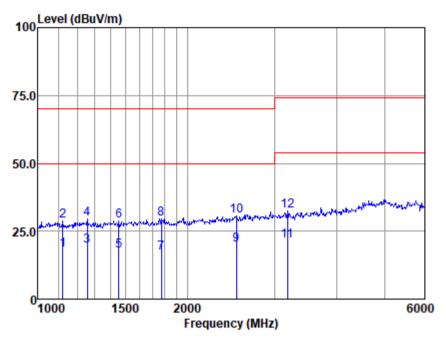
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Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :5834CR

Test mode :a

| | Read | Antenna | Cable | Preamp | Emission | Limit | 0ver | |
|----------|--|--|--|---|---|--|--|---|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1122.563 | 31.27 | 24.41 | 4.88 | 42.48 | 18.08 | 50.00 | -31.92 | Average |
| 1122.563 | 42.00 | 24.41 | 4.88 | 42.48 | 28.81 | 70.00 | -41.19 | Peak |
| 1256.512 | 31.81 | 24.72 | 5.38 | 42.46 | 19.45 | 50.00 | -30.55 | Average |
| 1256.512 | 41.81 | 24.72 | 5.38 | 42.46 | 29.45 | 70.00 | -40.55 | Peak |
| 1456.081 | 29.14 | 25.12 | 5.73 | 42.43 | 17.56 | 50.00 | -32.44 | Average |
| 1456.081 | 40.51 | 25.12 | 5.73 | 42.43 | 28.93 | 70.00 | -41.07 | Peak |
| 1772.327 | 27.46 | 25.66 | 6.42 | 42.40 | 17.14 | 50.00 | -32.86 | Average |
| 1772.327 | 39.98 | 25.66 | 6.42 | 42.40 | 29.66 | 70.00 | -40.34 | Peak |
| 2507.129 | 26.96 | 27.42 | 7.78 | 42.33 | 19.83 | 50.00 | -30.17 | Average |
| 2507.129 | 37.78 | 27.42 | 7.78 | 42.33 | 30.65 | 70.00 | -39.35 | Peak |
| 3177.672 | 26.08 | 28.61 | 8.92 | 42.32 | 21.29 | 54.00 | -32.71 | Average |
| 3177.672 | 37.08 | 28.61 | 8.92 | 42.32 | 32.29 | 74.00 | -41.71 | Peak |
| | MHz 1122.563 1122.563 1256.512 1256.512 1456.081 1456.081 1772.327 1772.327 2507.129 2507.129 3177.672 | MHz dBuV 1122.563 31.27 1122.563 42.00 1256.512 31.81 1256.512 41.81 1456.081 29.14 1456.081 40.51 1772.327 27.46 1772.327 39.98 2507.129 26.96 2507.129 37.78 3177.672 26.08 | Freq Level Factor MHz dBuV dB/m 1122.563 31.27 24.41 1122.563 42.00 24.41 1256.512 31.81 24.72 1256.512 41.81 24.72 1456.081 29.14 25.12 1456.081 40.51 25.12 1772.327 27.46 25.66 1772.327 39.98 25.66 2507.129 26.96 27.42 2507.129 37.78 27.42 3177.672 26.08 28.61 | Freq Level Factor Loss MHz dBuV dB/m dB 1122.563 31.27 24.41 4.88 1122.563 42.00 24.41 4.88 1256.512 31.81 24.72 5.38 1256.512 41.81 24.72 5.38 1456.081 29.14 25.12 5.73 1456.081 40.51 25.12 5.73 1772.327 27.46 25.66 6.42 1772.327 39.98 25.66 6.42 2507.129 26.96 27.42 7.78 2507.129 37.78 27.42 7.78 3177.672 26.08 28.61 8.92 | Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 1122.563 31.27 24.41 4.88 42.48 1122.563 42.00 24.41 4.88 42.48 1256.512 31.81 24.72 5.38 42.46 1256.512 41.81 24.72 5.38 42.46 1456.081 29.14 25.12 5.73 42.43 1456.081 40.51 25.12 5.73 42.43 1772.327 27.46 25.66 6.42 42.40 1772.327 39.98 25.66 6.42 42.40 2507.129 26.96 27.42 7.78 42.33 2507.129 37.78 27.42 7.78 42.33 3177.672 26.08 28.61 8.92 42.32 | Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 1122.563 31.27 24.41 4.88 42.48 18.08 1122.563 42.00 24.41 4.88 42.48 28.81 1256.512 31.81 24.72 5.38 42.46 19.45 1256.512 41.81 24.72 5.38 42.46 29.45 1456.081 29.14 25.12 5.73 42.43 17.56 1456.081 40.51 25.12 5.73 42.43 28.93 1772.327 27.46 25.66 6.42 42.40 17.14 1772.327 39.98 25.66 6.42 42.40 29.66 2507.129 26.96 27.42 7.78 42.33 19.83 2507.129 37.78 27.42 7.78 42.33 30.65 3177.672 26.08 28.61 8.92 42.32 21.29 | Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 1122.563 31.27 24.41 4.88 42.48 18.08 50.00 1122.563 42.00 24.41 4.88 42.48 28.81 70.00 1256.512 31.81 24.72 5.38 42.46 19.45 50.00 1256.512 41.81 24.72 5.38 42.46 29.45 70.00 1456.081 29.14 25.12 5.73 42.43 17.56 50.00 1456.081 40.51 25.12 5.73 42.43 28.93 70.00 1772.327 27.46 25.66 6.42 42.40 17.14 50.00 1772.327 39.98 25.66 6.42 42.40 29.66 70.00 2507.129 26.96 27.42 7.78 42.33 19.83 50.00 2507.129 37.78 <td>Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 1122.563 31.27 24.41 4.88 42.48 18.08 50.00 -31.92 1122.563 42.00 24.41 4.88 42.48 28.81 70.00 -41.19 1256.512 31.81 24.72 5.38 42.46 19.45 50.00 -30.55 1256.512 41.81 24.72 5.38 42.46 19.45 50.00 -30.55 1256.512 41.81 24.72 5.38 42.46 29.45 70.00 -40.55 1456.081 29.14 25.12 5.73 42.43 17.56 50.00 -32.44 1456.081 40.51 25.12 5.73 42.43 28.93 70.00 -41.07 1772.327 39.98 25.66 6.42 42.40 17.14 50.00 -32.86</td> | Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 1122.563 31.27 24.41 4.88 42.48 18.08 50.00 -31.92 1122.563 42.00 24.41 4.88 42.48 28.81 70.00 -41.19 1256.512 31.81 24.72 5.38 42.46 19.45 50.00 -30.55 1256.512 41.81 24.72 5.38 42.46 19.45 50.00 -30.55 1256.512 41.81 24.72 5.38 42.46 29.45 70.00 -40.55 1456.081 29.14 25.12 5.73 42.43 17.56 50.00 -32.44 1456.081 40.51 25.12 5.73 42.43 28.93 70.00 -41.07 1772.327 39.98 25.66 6.42 42.40 17.14 50.00 -32.86 |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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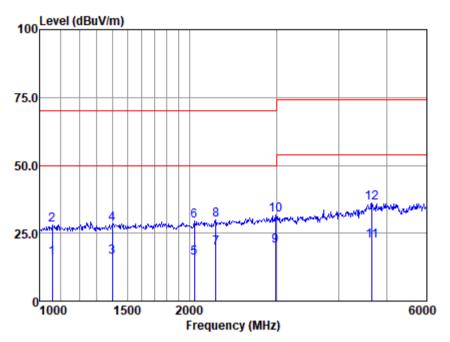
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Mode:a; Polarization:Vertical



Antenna Polarity : VERTICAL EUT/Project :5834CR

Test mode

| | | Read | Antenna | Cable | Preamp | Emission | Limit | Over | |
|----|----------|-------|---------|-------|--------|----------|--------|--------|---------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1059.511 | 29.36 | 24.26 | 4.69 | 42.49 | 15.82 | 50.00 | -34.18 | Average |
| 2 | 1059.511 | 41.64 | 24.26 | 4.69 | 42.49 | 28.10 | 70.00 | -41.90 | Peak |
| 3 | 1398.336 | 28.03 | 25.01 | 5.52 | 42.44 | 16.12 | 50.00 | -33.88 | Average |
| 4 | 1398.336 | 40.20 | 25.01 | 5.52 | 42.44 | 28.29 | 70.00 | -41.71 | Peak |
| 5 | 2047.895 | 25.15 | 26.15 | 7.04 | 42.37 | 15.97 | 50.00 | -34.03 | Average |
| 6 | 2047.895 | 38.61 | 26.15 | 7.04 | 42.37 | 29.43 | 70.00 | -40.57 | Peak |
| 7 | 2259.367 | 27.91 | 26.76 | 7.31 | 42.35 | 19.63 | 50.00 | -30.37 | Average |
| 8 | 2259.367 | 38.20 | 26.76 | 7.31 | 42.35 | 29.92 | 70.00 | -40.08 | Peak |
| 9 | 2981.899 | 25.68 | 28.47 | 8.52 | 42.30 | 20.37 | 50.00 | -29.63 | Average |
| 10 | 2981.899 | 36.96 | 28.47 | 8.52 | 42.30 | 31.65 | 70.00 | -38.35 | Peak |
| 11 | 4667.241 | 20.59 | 30.95 | 13.10 | 42.47 | 22.17 | 54.00 | -31.83 | Average |
| 12 | 4667.241 | 34.49 | 30.95 | 13.10 | 42.47 | 36.07 | 74.00 | -37.93 | Peak |

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7 Immunity Test Results

7.1 Performance Criteria Description in EN 50130-4:2011 +A1:2014

There shall be no damage, malfunction or change of status due to the conditioning. Flickering of an indicator during the application of the discharges is permissible, providing that there is no residual change in the EUT or any change in outputs, which could be interpreted by associated equipment as a change.

For further details, please refer to Clause 7.4, 8.4, 9.4, 10.4, 11.4, 12.4 and 13.4, of EN 50130-4.



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7.2 Electrostatic Discharge

Test Requirement: EN 50130-4:2011 +A1:2014

Test Method: EN 61000-4-2:2009

Number of Discharge: Minimum 10 times at each test point for Air Discharge

Minimum 50 times at each test point for Contact or VCP & HCP

Discharge

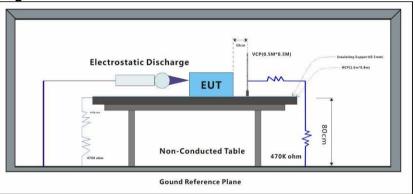
Discharge Mode: Single Discharge Discharge Period: 1 second minimum

Criteria for compliance: There shall be no damage, malfunction or change of status due to the

conditioning. Flickering of an indicator during the application of the discharges is permissible, providing that there is no residual change in the EUT or any change in outputs, which could be interpreted by

associated equipment as a change.

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 24 Atmospheric Pressure: 1010 mbar Humidity: 48 % RH

a:Normal Working_The PIR Sensor, Open/Close Sensor, Smart button connected Test mode:

with Home Gateway through ZigBee signal, and the Home Gate way connected with the wireless router through WiFi, use the mobile phone connected with the

router to observe the status information.

7.2.3 Test Results:

Observations: Test Point:

> All insulated enclosure and seams. 1.

2. All accessible metal parts of the enclosure.

3. All side

| Discharge type | Level (kV) | Polarity | Test Point | Result / Observations |
|---------------------|------------|----------|------------|-----------------------|
| Air Discharge | 2,4,8 | + | 1 | Α |
| Air Discharge | 2,4,8 | - | 1 | Α |
| Contact Discharge | 6 | + | 2 | Α |
| Contact Discharge | 6 | - | 2 | A |
| Horizontal Coupling | 6 | + | 3 | Α |
| Horizontal Coupling | 6 | - | 3 | Α |
| Vertical Coupling | 6 | + | 3 | Α |
| Vertical Coupling | 6 | - | 3 | Α |

Results:

A: No degradation in the performance of the EUT was observed.



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7.3 Radiated Immunity(80MHz-2.7GHz)

Test Requirement: EN 50130-4:2011 +A1:2014

Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010 Modulation: 80%, 1 kHz Amplitude Modulation

Criteria for compliance: There shall be no damage, malfunction or change of status due to the

conditioning. Flickering of an indicator during the conditioning is permissible, providing that there is no residual change in the EUT or any change in outputs, which could be interpreted by associated equipment as a change, and no such flickering of indicators occurs at a field strength of 3 V/m.

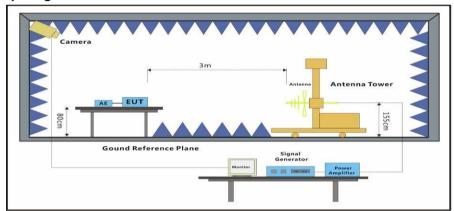
For components of CCTV systems, where the status is monitored by observing the TV picture, then deterioration of the picture is allowed at 10 V/m. providing.

a) there is no permanent damage or change to the EUT (e.g. no corruption of memory or changes to programmable settings etc.);

b) at 3 V/m, any deterioration of the picture is so minor that the system could still be used; and

c) there is no observable deterioration of the picture at 1 V/m.

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 48 % RH Atmospheric Pressure: 1010 mbar Test mode: a:Normal Working The PIR Sensor, Open/Close Sensor, Smart button connected

with Home Gateway through ZigBee signal, and the Home Gate way connected with the wireless router through WiFi, use the mobile phone connected with the

router to observe the status information.

7.3.3 Test Results:

| Frequency | Level (V/m) | EUT Face | Dwell time | Result / Observations |
|--------------|-------------|-----------|------------|-----------------------|
| 80MHz-2.7GHz | 10 | Front | 3s | A |
| 80MHz-2.7GHz | 10 | Back | 3s | A |
| 80MHz-2.7GHz | 10 | Left | 3s | A |
| 80MHz-2.7GHz | 10 | Right | 3s | A |
| 80MHz-2.7GHz | 10 | Тор | 3s | A |
| 80MHz-2.7GHz | 10 | Underside | 3s | A |

Results:

A: No degradation in the performance of the EUT was observed.



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Photographs 8

Radiated Emissions (30MHz-1GHz) Test Setup



8.2 Radiated Emissions (above 1GHz) Test Setup





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8.3 Electrostatic Discharge Test Setup



8.4 Radiated Immunity(80MHz-2.7GHz) Test Setup





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8.5 EUT Constructional Details (EUT Photos)







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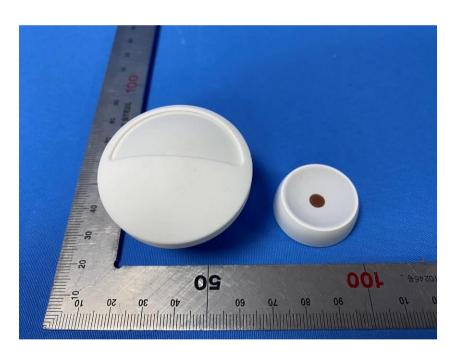
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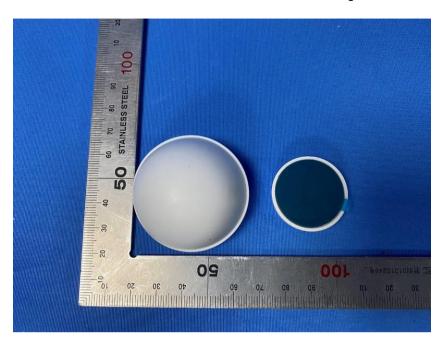
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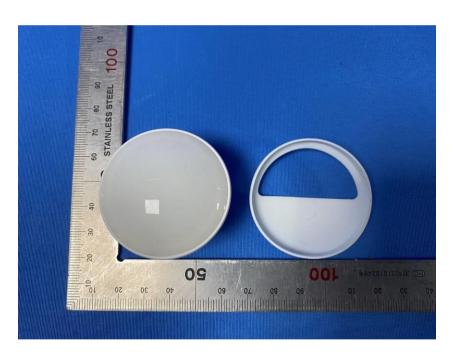
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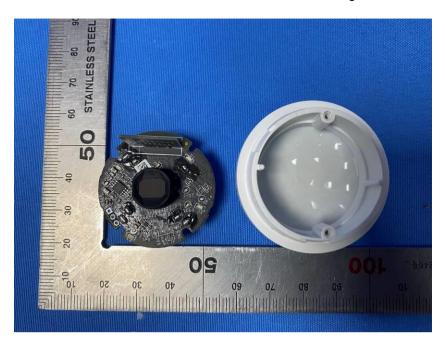
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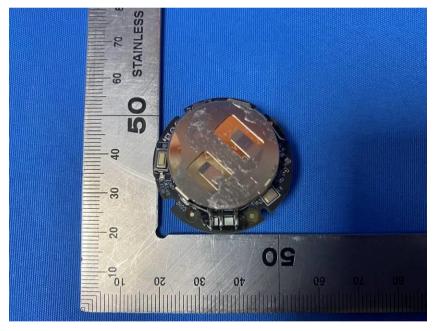
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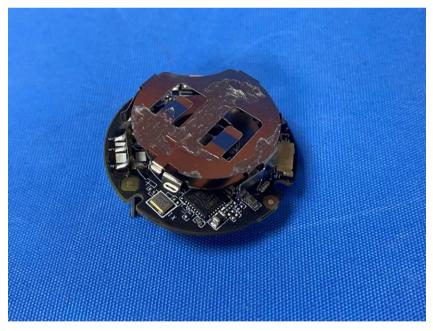
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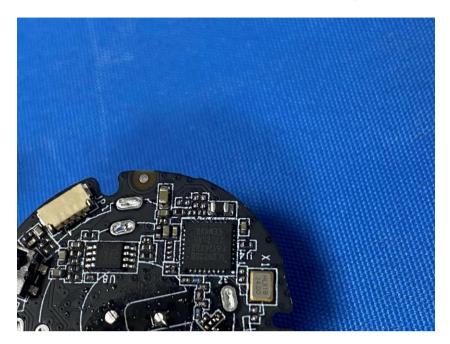
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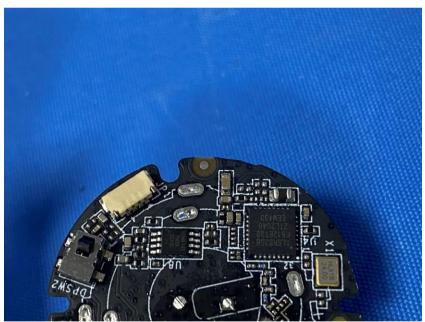
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