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# TEST REPORT

**Report No. :** CQASZ20260601272E-02

**Applicant:** Dongguan Yu'aoran Electronic Technology Co., Ltd

**Address of Applicant:** Room 901, Building 2, No. 23, Dalingshan Section, Guanchang Road, Dalingshan Town, Dongguan City, Guangdong Province

**Equipment Under Test (EUT):**

**EUT Name:** Intelligent visual doorbell

**Model No.:** X8, K9S

**Test Model No.:** X8

**Brand Name:** N/A

**FCC ID:** 2BWUM-X8

**Standards:** 47 CFR Part 1.1307  
47 CFR Part 1.1310  
KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2026-06-18

**Date of Test:** 2026-06-18 to 2026-06-29

**Date of Issue:** 2026-7-1

**Test Result :** **PASS**

**Tested By:**

*Lewis Zhou*

( Lewis Zhou )

**Reviewed By:**

*Timo Lei*

( Timo Lei )

**Approved By:**

*Jack Ai*

( Jack Ai )



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## 1. Version

### Revision History Of Report

| Report No.           | Version | Description    | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20260601272E-02 | Rev.01  | Initial report | 2026-7-1   |

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### 3. General Information

### 4. Client Information

|                          |                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Dongguan Yu'aoran Electronic Technology Co., Ltd                                                                     |
| Address of Applicant:    | Room 901, Building 2, No. 23, Dalingshan Section, Guanchang Road, Dalingshan Town, Dongguan City, Guangdong Province |
| Manufacturer:            | Dongguan Yu'aoran Electronic Technology Co., Ltd                                                                     |
| Address of Manufacturer: | Room 901, Building 2, No. 23, Dalingshan Section, Guanchang Road, Dalingshan Town, Dongguan City, Guangdong Province |
| Factory:                 | Dongguan Yu'aoran Electronic Technology Co., Ltd                                                                     |
| Address of Factory:      | Room 901, Building 2, No. 23, Dalingshan Section, Guanchang Road, Dalingshan Town, Dongguan City, Guangdong Province |

### 5. General Description of EUT

|                           |                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:             | Intelligent visual doorbell                                                                                                                                  |
| Model No.:                | X8, K9S                                                                                                                                                      |
| Test Model No.:           | X8                                                                                                                                                           |
| Trade Mark:               | N/A                                                                                                                                                          |
| Software Version:         | V1.0                                                                                                                                                         |
| Hardware Version:         | V1.0                                                                                                                                                         |
| Power Supply:             | Li-ion Battery: 1000mAh(3.7Wh/3.7V) By Adapter Charging DC 5V                                                                                                |
| Simultaneous Transmission | <input type="checkbox"/> Simultaneous TX is supported and evaluated in this report.<br><input checked="" type="checkbox"/> Simultaneous TX is not supported. |

### 6. General Description of 2.4G SRD

|                      |                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------|
| Operation Frequency: | 2412MHz~2469MHz                                                                                                    |
| Modulation Type:     | GFSK                                                                                                               |
| Number of Channel:   | 58                                                                                                                 |
| Product Type:        | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location |
| Antenna Type:        | Copper tube antenna                                                                                                |
| Antenna Gain:        | 2.07dBi                                                                                                            |

## RF Exposure Evaluation

### RF Exposure Compliance Requirement

#### Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

## EUT RF Exposure

### 1) For 2.4G SRD

$$\text{EIRP} = E_{\text{Meas}} + 20 \log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm  
 $E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in dBμV/m  
 $d_{\text{Meas}}$  is the measurement distance, in m

### Measurement Data

| Worst case: GFSK |               |                            |                       |       |
|------------------|---------------|----------------------------|-----------------------|-------|
| Test Channel     | EIRP<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |       |
|                  |               |                            | (dBm)                 | (mW)  |
| Lowest(2412MHz)  | -4.96         | -4.5±1                     | -3.5                  | 0.447 |
| Middle(2440MHz)  | -4.63         | -4.5±1                     | -3.5                  | 0.447 |
| Highest(2469MHz) | -4.20         | -4.5±1                     | -3.5                  | 0.447 |

| Worst case: GFSK                                        |                           |                  |                     |
|---------------------------------------------------------|---------------------------|------------------|---------------------|
| Channel                                                 | Maximum tuneup Power (mW) | Calculated value | Exclusion threshold |
| Lowest (2402MHz)                                        | 0.447                     | 0.099            | 3.0                 |
| Middle (2440MHz)                                        | 0.447                     | 0.108            |                     |
| Highest (2480MHz)                                       | 0.447                     | 0.119            |                     |
| Conclusion: the calculated value ≤3.0, SAR is exempted. |                           |                  |                     |

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20260601272E-01