

Report No.: KSCR221000192602

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#### **Cover Page** 1

**RF Exposure Evaluation Report** 

Test Result:	Pass*
Date of Issue:	2022-10-24
Date of Test:	2022-10-19 to 2022-10-24
Date of Receipt:	2022-10-14
Standard(s) :	FCC Rules 47 CFR §2.1091 KDB 447498 D04 interim General RF Exposure Guidance v01
Model No.:	DH-DS21, DS21, DS21-USA, DHI-DS21
EUT Name:	Wireless Chime
Equipment Under Test (EU	Т):
Address of Manufacturer:	No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Manufacturer:	ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
Address of Applicant:	No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Applicant:	ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
FCC ID:	SVNDH-DS21
Application No.:	KSCR2210001926AT

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

Enin fri

Eric Lin Laboratory Manager



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Revision Record								
Version Description Date Remark								
00	Original	2022-10-24	/					

Authorized for issue by:		
	Ceril Lin	
	Eric_Liu /Project Engineer	
	Eni fri	
	Eric Lin /Reviewer	



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### 3 General Information

#### 3.1 General Description of E.U.T.

	DH-DS21 100-240V~ 0.5A 50/60Hz
Test Voltage:	AC 120V/60Hz

#### 3.2 Details of E.U.T.

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
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
Channel Spacing:	5MHz
Antenna Type:	Antenna1: FPC Antenna Antenna2: FPC Antenna
Antenna Gain:	Antenna1:2.81dBi(Provided by the manufacturer) Antenna2:2.81dBi(Provided by the manufacturer) Directional gain:5.82dBi
S/N:	8M0024EPAG43006
Firmware Version:	V2.820.0000000.0



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### 3.3 Test Location

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China. Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable)

#### 3.4 Test Facility

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

#### CNAS

Compliance Certification Services (Kunshan) Inc. is accredited by the China National Accreditation Service for Conformity Assessment (CNAS). Registration No. CNAS L4354

#### • A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

#### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

#### • VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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### 4 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

#### 4.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

#### 4.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

RF Source Frequency			Minim	Threshold ERP			
<i>f</i> ⊾ MHz		<i>f</i> ⊦ MHz	λ <sub>L</sub> / 2π		λ <sub>Η</sub> / 2π	W	
0.3	-	1.34	159 m	-	35.6 m	1,920 R <sup>2</sup>	
1.34	-	30	35.6 m	– 1.6		3,450 R²/f ²	
30	-	300	1.6 m	-	159 mm	3.83 R <sup>2</sup>	
300	-	1,500	159 mm	-	31.8 mm	0.0128 R <sup>2</sup> f	
1,500	1,500 – 100,000 31.8 mm – 0.5 mm 19.2R <sup>2</sup>						
Subscripts L and H are low and high; λ is wavelength.							
From §1.1307(	(b)(3)(i)(	C), modified by a	dding Minimum D	listance	e columns.		

Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are





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based on the general population MPE limits with a single perfect reflection, outside of the reactive nearfield, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of \$1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in \$1.1310 is necessary if the ERP of the device is greater than *ERP*<sub>20cm</sub> in Formula (B.1) [repeated from \$2.1091(c)(1); also in \$1.1307(b)(1)(i)(B)].

$$P_{\rm th} (\rm mW) = ERP_{20 \,\rm cm} (\rm mW) = \begin{cases} 2040f & 0.3 \,\rm GHz \le f < 1.5 \,\rm GHz \\ 3060 & 1.5 \,\rm GHz \le f \le 6 \,\rm GHz \end{cases}$$
(B.1)

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

Limit calculation								
Frequency range Frequency(MHz) $R(\lambda/2\pi)(m)$ Threshold ERP(W)								
300~1500MHz <b>915</b> 0.0522 0.032								
1500~100000MHz <b>2462</b> 0.0194 0.007								

#### 4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of  $\lambda/4$ .

As for devices with antennas of length greater than  $\lambda/4$  where the gain is not well defined, but always less than that of a half-wave dipole (length  $\lambda/2$ ), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.





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The SAR-based exemption formula of \$1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW). This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

$$P_{\rm th} (\rm mW) = \begin{cases} ERP_{20 \rm \ cm} (d/20 \rm \ cm)^x & d \le 20 \rm \ cm \\ \\ ERP_{20 \rm \ cm} & 20 \rm \ cm < d \le 40 \rm \ cm \end{cases}$$
(B.2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\,\mathrm{cm}\sqrt{f}}\right)$$

and *f* is in GHz, d is the separation distance (cm), and *ERP*<sub>20cm</sub> is per Formula (B.1).



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Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)										
Frequency					Distan	ce(mm)				
(MHz)	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Limit calculation									
Frequency range(GHz)	Frequency range(GHz) Frequency(GHz) X Distance(cm) Pth (mW)								
1.5~6 <b>2.462</b> 1.903 <b>20 3060.000</b>									



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### 5 Measurement and Calculation

#### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR221000192601

2.4G	WiFi

2.40 1111	Test	Antenna 1	Antenna 2	MIMO	Antenna 1	Antenna 2	MIMO
Test Mode	Frequency	Power	Power	Power	Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)	(mW)	(mW)	(mW)
	2412	15.43	13.91	/	34.91	24.60	/
11B	2437	15.30	13.89	/	33.88	24.49	/
	2462	14.56	13.49	/	28.58	22.34	/
	2412	11.02	9.55	/	12.65	9.02	/
11G	2437	10.87	9.39	/	12.22	8.69	/
	2462	10.31	9.11	/	10.74	8.15	/
	2412	8.03	6.09	10.18	6.35	4.06	10.42
11N20MIMO	2437	7.78	6.17	10.06	6.00	4.14	10.14
	2462	7.37	6.09	9.79	5.46	4.06	9.53
	2422	9.38	7.40	11.51	8.67	5.50	14.16
11N40MIMO	2437	8.90	7.16	11.13	7.76	5.20	12.97
	2452	8.51	7.01	10.83	7.10	5.02	12.11

### 5.2 RF Exposure Calculation

The Max Conducted Peak Output Power is 34.91 mW for antenna1, 24.60mW for antenna2, 14.16 mW for Mimo.

The best case gain of the antenna is 2.81dBi for antenna1 and 2.81dBi for antenna2. Directional gain:5.82dBi.

2.81dBi logarithmic terms convert to numeric result is nearly 1.91.

2.81dBi logarithmic terms convert to numeric result is nearly 1.91.

5.82dBi logarithmic terms convert to numeric result is nearly 3.82.

According to the formula. calculate the EIRP test result:

Antenna1: EIRP= P x G = 34.91 mW x 1.91= 66.68mW

Antenna2: EIRP= P x G = 24.60 mW x 1.91= 46.99mW

In MIMO mode: EIRP= P x G = 14.16 mW x 3.82= 54.09mW

**Remark**: we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.



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Evaluation method	Exempt Limit(mW)	Verdict
Blanket 1 mW Blanket Exemption	1mW	N/A
MPE-based Exemption(ERP)	7mW(ERP) (2.4GHz Band)	N/A
SAR-based Exemption( <i>P</i> th)	3060mW(ERP) (1.5GHz~6GHz)	Yes

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

### --End of the Report--



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