

Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR211100021702

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1 **Cover Page**

RF Exposure Evaluation Report

Application No.: KSCR2111000217AT

FCC ID: 2ADTD-D1012003

Applicant: Hangzhou Hikvision Digital Technology Co., Ltd. Address of Applicant: No. 555, Qianmo Road, Binjiang District, Hangzhou Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Manufacturer: No. 555, Qianmo Road, Binjiang District, Hangzhou

> 1. Hangzhou Hikvision Electronics Co., Ltd. 2. Hangzhou Hikvision Technology Co., Ltd.

Factory: 3.CHONGQING HIKVISION TECHNOLOGY CO.,LTD.

1.No.299,Qiushi Road,Tonglu Economic Development Zone,Tonglu

County, Hangzhou, Zhejiang

Address of Factory: 2.No.700 Dongliu Road, Binjiang District, Hangzhou 310052, China

3.No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou

District, Chongging, 401325, China

Equipment Under Test (EUT):

EUT Name: Wireless Glass Break Detector

DS-PDBG8-EG2-WA,DS-PDBG8-EG2-WAUHK,

Model No.: DS-PDBG8-EG2-WACKV, DS-PDBG8-EG2-WAUVS,

DS-PDBG8-EG2-WAKVO, DS-PDBG8-EG2-WAHUN

Trade mark: **HIKVISION**

Standard(s): FCC Rules 47 CFR §2.1091

Date of Receipt: 2021-11-08

Date of Test: 2021-11-19 to 2021-11-29

Date of Issue: 2021-11-29

Test Result: Pass*

Eric Lin 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	2021-11-29	/	

Authorized for issue by:	
	Damon zhou
	Damon Zhou / Project Engineer
	Eni fri
	Eric Lin / Reviewer



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 3V by Battery
i ower supply.	Battery information: CR123A x 2,3V DC, Max.1600mAh

3.2 Technical Specifications

915MHz

10m12		
Operation Frequency:	912.5MHz ~ 917.4MHz	
Number of Channels:	50	
Channel Spacing:	100kHz	
Modulation Type:	FSK	
Antenna Gain:	1.92dBi (Provided by manufacturer)	
Antenna Type:	Spiral Antenna	



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3.3 Test Location

All tests were performed at:

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

No tests were sub-contracted.

3.4 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

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

FCC (Designation Number: CN1172)

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

• ISED (CAB identifier: CN0072)

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

Company Number: 2324EVCCI (Member No.: 1938)

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 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm²)	Averaging time(minutes)	
300MHz~1.5GHz	f/1500	30	
1.5GHz~100GHz	1.0	30	



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR211100021701

Test Mode	Channel	Antenna Power[dBm]	Antenna Power[mW]	
FSK	912.5	11.78	15.07	
FOR	917.4	11.63	14.55	

5.2 MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in meter) = 20cm
- 3) For 912.5MHz ~ 917.4MHz, MPE limit: 912.5MHz / 1500 = 0.608mW/cm²

The max. antenna gain is		1.92	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
15.07	1.556	20	0.00466	0.608	Pass

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

-- End of the Report--



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