

Report No.: KSCR210900009902

Page: 1 of 8

Cover Page 1

RF MPE REPORT

KSCR2109000099AT **Application No.:** FCC ID: 2ADTD-D1601003

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

Factory: 1. Hangzhou Hikvision Electronics Co., Ltd. 2. Hangzhou Hikvision Technology Co., Ltd.

3.CHONGQING HIKVISION TECHNOLOGY CO., LTD.

1.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu Address of Factory:

County, Hangzhou, Zhejiang.

2.No.700 Dongliu Road, Binjiang District, Hangzhou 310052, China 3. Building 18, Louyu Area, C area, Jiangiao industrial park, Chongging

Equipment Under Test (EUT):

Wireless Portable Emergency Button **EUT Name:**

DS-PDEBP1-EG2-WA Model No.:

DS-PDEBP1-EG2-WAUHK, DS-PDEBP1-EG2-WACKV, DS-PDEBP1-EG2-Add Model No.:

WAUVS, DS-PDEBP1-EG2-WAKVO, DS-PDEBP1-EG2-WAHUN, DS-PDEBP2-EG2-WA,DS-PDEBP2-EG2-WAUHK,DS-PDEBP2-EG2-WACKV, DS-PDEBP2-EG2-WAUVS, DS-PDEBP2-EG2-WAKVO, DS-

PDEBP2-EG2-WAHUN

Trade mark: **HIKVISION**

FCC Rules 47 CFR §2.1093

Standard(s): KDB447498 D01 General RF Exposure Guidance v06

2021-09-27 **Date of Receipt:**

2021-10-01 to 2021-10-03 **Date of Test:**

2021-10-03 Date of Issue:

Pass* **Test Result:**

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



Report No.: KSCR210900009902

Page: 2 of 8

Revision Record				
Version	Description	Date	Remark	
00	Original	2021-10-03	/	

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



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Report No.: KSCR210900009902

Page: 3 of 8

2 Contents

		Pag	е
1	COV	/ER PAGE	. 1
2	CON	ITENTS	. 3
3	GEN	IERAL INFORMATION	. 4
3	3.1	GENERAL DESCRIPTION OF E.U.T.	. 4
3	3.2	TECHNICAL SPECIFICATIONS	. 4
3	3.3	TEST LOCATION	. 5
3	3.4	TEST FACILITY	. 5
4	TES	T STANDARDS AND LIMITS	. 6
2	4.1	FCC RADIOFREQUENCY RADIATION EXPOSURE LIMITS	. 6
5	MEA	SUREMENT AND CALCULATION	. 7
5	5.1	MAXIMUM TRANSMIT POWER	. 7
Ę	5.2	MPE CALCULATION	. 8



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Report No.: KSCR210900009902

Page: 4 of 8

3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 3V

3.2 Technical Specifications

BT

Operation Frequency:	912.5MHz ~ 917.4MHz
Number of Channels:	50
Channel Spacing:	100kHz
Modulation Type:	FSK
Antenna Gain:	1.86dBi (Provided by manufacturer)
Antenna Type:	FPC Antenna



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Report No.: KSCR210900009902

Page: 5 of 8

3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weive 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.

CAB Identifier: CN0072.

• VCCI (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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Report No.: KSCR210900009902

Page: 6 of 8

4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits

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

[(max power of channel)/(min test separation distance)]*[$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

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 according to 4.1 f) is applied to determine SAR test exclusion. For 2.4G band device, the limit of worse case is

 $P_{\text{max}} \le 7.5 \text{ }^{+}D_{\text{min}}) / \sqrt{f} = 7.5 \text{ }^{+}5 / \sqrt{0.9174} = 39.15 \text{ mW}$



Test Report Form Version: Rev01

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Report No.: KSCR210900009902

Page: 7 of 8

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR210900009901

The Fewer Bata to Bacca of the Title To Tool Report Ne ONZ Tool Cool Cool			
Test Mode	Channel	Antenna Power[dBm]	Antenna Power[mW]
FSK	912.5	11.13	12.97
ron	917.4	10.83	12.11



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Report No.: KSCR210900009902

8 of 8 Page:

5.2 MPE Calculation

The Max Conducted Peak Output Power is 12.97mW. The best case gain of the antenna is 1.86dBi.

1.86dBi logarithmic terms convert to numeric result is nearly 1.535

According to the formula. calculate the EIRP test result:

EIRP= P x G = 12.97mW x 1.535= 19.91mW < 39.15mW

So the SAR report is not required.

-- End of the Report--



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