

# 1 Cover Page

## RF Exposure Evaluation Report

**Application No.:** KSCR2111000218AT  
**FCC ID:** 2ADTD-M020301114  
**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.  
**Address of Factory:** 1. No. 299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang  
 2. No. 700 Dongliu Road, Binjiang District, Hangzhou 310052, China  
 3. No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing, 401325, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Wall Switch  
**Model No.:** DS-PM1-O1H-WA, DS-PM1-O1H-WAUHK, DS-PM1-O1H-WACKV, DS-PM1-O1H-WAUVS, DS-PM1-O1H-WAKVO, DS-PM1-O1H-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

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin  
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-11-29	/

Authorized for issue by:			
		<i>Damon Zhou</i>	
		_____	
		Damon Zhou / Project Engineer	
		<i>Eric Lin</i>	
		_____	
		Eric Lin / Reviewer	



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### 3 General Information

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

Power supply:	AC 100-240V,50/60Hz,13A Max
---------------	-----------------------------

#### 3.2 Technical Specifications

##### 915MHz

Operation Frequency:	912.5MHz ~ 917.4MHz
Number of Channels:	50
Channel Spacing:	100kHz
Modulation Type:	FSK
Antenna Gain:	0.6dBi (Provided by manufacturer)
Antenna Type:	Monopole 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: 2324E

• **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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## 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/cm <sup>2</sup> )	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 KSCR211100021801

Test Mode	Channel	Antenna Power[dBm]	Antenna Power[mW]
FSK	912.5	12.57	18.07
	917.4	12.37	17.26

### 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, the limit: 912.5MHz / 1500 = 0.608mW/cm<sup>2</sup>.

The max. antenna gain is		0.6	dBi		
Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
18.07	1.148	20	0.00413	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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