

# 1 Cover Page

## RF MPE REPORT

**Application No.:** KSCR2203000267AT  
**FCC ID:** 2ADTD-KH6320WTE1B  
**IC :** 20199-KH6320WTE1B  
**Applicant:** Hangzhou Hikvision Digital Technology Co., Ltd  
**Address of Applicant:** No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd  
**Address of Manufacturer:** No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China  
**Factory:**

1. Hangzhou Hikvision Technology Co., Ltd.
2. Hangzhou Hikvision Electronics Co., Ltd.
3. Hangzhou Hikvision Digital Technology Co., Ltd.
4. Chongqing Hikvision technology Co., Ltd.

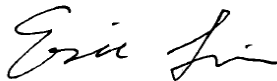
**Address of Factory:**

1. No.700,Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China;
2. No.299,Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou,Zhejiang,310052,China
3. No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
- 4.No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing, 401325,China

**Equipment Under Test (EUT):**  
**EUT Name:** IP Video Intercom Indoor Station  
**Model No.:** DS-KH6320-WTE1(B)  
**Add Model No.:** DS-KH6320-WTE1(B)UHK, DS-KH6320-WTE1(B)CKV, DS-KH6320-WTE1(B)UVS, DS-KH6320-WTE1(B)KVO, DS-KH6320-WTE1(B)HUN  
**IC Model No.:** DS-KH6320-WTE1(B)  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB447498 D01 General RF Exposure Guidance v06  
RSS-102 Issue 5 Amendment 1 (February 2, 2021)  
**Date of Receipt:** 2022-03-01  
**Date of Test:** 2022-03-12 to 2022-03-29  
**Date of Issue:** 2022-03-30

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



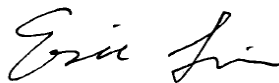
Eric Lin  
Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-03-30		Original

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



Eric Lin  
Laboratory Manager



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### 3 General Information

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

Power supply:	12V=1A, POE(37-57V) =0.35A
Firmware Version:	V2.1.38
Serial Number:	Q10165145

#### 3.2 Technical Specifications

##### 2.4GHz

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:	PIFA Antenna
Antenna Gain:	2.95dBi (Provided by the manufacturer)



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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

### 4.2 IC Radiofrequency radiation exposure limits:

According to RSS-102 section 2.5.2, RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $4.49/f^{0.5}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

For 2.4G device, the limit of worse case is 2.68 W



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## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR220300026701.

2.4GHz

Test Mode	Test Channel	Ant	Power [dBm]	Power [mW]
11BSISO	2412	Ant1	14.25	26.61
11BSISO	2437	Ant1	15.17	32.89
11BSISO	2462	Ant1	15.90	<b>38.90</b>
11GSISO	2412	Ant1	13.62	23.01
11GSISO	2437	Ant1	14.64	29.11
11GSISO	2462	Ant1	14.44	27.80
11N20SISO	2412	Ant1	13.63	23.07
11N20SISO	2437	Ant1	14.56	28.58
11N20SISO	2462	Ant1	15.35	34.28
11N40SISO	2422	Ant1	13.63	23.07
11N40SISO	2437	Ant1	14.14	25.94
11N40SISO	2452	Ant1	14.63	29.04



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## 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) MPE limit = 1mW/cm<sup>2</sup>

For FCC:

The max. antenna gain is		2.95	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
38.9	1.972	20	0.01526	1	Pass

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

For IC:

$$E.I.R.P.= P*G= 0.03890 \times 1.972 = 0.0767W < 2.68W$$

So the device is exclusion from SAR test.

--End of the Report--



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