

1 Cover Page

RF Exposure Evaluation Report

Application No.: SHEM1904012478CR
FCC ID: 2ADTD-KH6320WTE2
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.
Address of Factory:
1. No.700, Dongliu Road, Binjiang District, Hangzhou City, 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

Equipment Under Test (EUT):

EUT Name:	Indoor Station
Model No.:	DS-KH6320-WTE2
Add Model No.:	DS-KH6320-WTE2UHK, DS-KH6320-WTE2CKV, DS-KH6320-WTE2UVS, DS-KH6320-WTE2KVO, DS-KH6320-WTE2HUN
Standard(s) :	FCC Rules 47 CFR §2.1091 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2019-04-19
Date of Test:	2019-04-24 to 2019-04-27
Date of Issue:	2019-05-08

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

paran zhan

Parlam Zhan
E&F Section 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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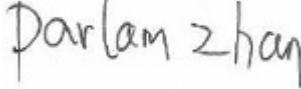
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center EMC Lab 2009

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Revision Record			
Version	Description	Date	Remark
00	Original	2019-05-08	/

Authorized for issue by:			
			
		Vincent Zhu /Project Engineer	
			
		Parlam Zhan /Reviewer	

2 Contents

	Page
1 COVER PAGE	1
2 CONTENTS	3
3 GENERAL INFORMATION	4
3.1 GENERAL DESCRIPTION OF E.U.T.	4
3.2 TEST LOCATION	5
3.3 TEST FACILITY	5
4 TEST STANDARDS AND LIMITS	6
4.1 FCC RADIOFREQUENCY RADIATION EXPOSURE LIMITS	6
5 MEASUREMENT AND CALCULATION	6
5.1 MAXIMUM TRANSMIT POWER	6
5.2 MPE CALCULATION	7

3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 24V via adapter
Test voltage:	AC 120V/60Hz for adapter
Antenna Gain	2.61 dBi
Antenna Type	PCB Antenna
Channel Spacing	5MHz
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
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz

3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

3.3 Test Facility

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

- CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 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.

- NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

- FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC Registration No.: 8617A-1. CAB identifier: CN0020.

- VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

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 ²)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM190401247801

Test Mode	Test Channel	Ant	Level [dBm]	Power [dBm]	Power [mW]
11B	2412	Ant1	15.46	15.46	35.16
11B	2437	Ant1	15.94	15.94	39.26
11B	2462	Ant1	16.33	16.33	42.95
11G	2412	Ant1	14.47	14.47	27.99
11G	2437	Ant1	15.05	15.05	31.99
11G	2462	Ant1	15.5	15.50	35.48
11N20SISO	2412	Ant1	14.42	14.42	27.67
11N20SISO	2437	Ant1	15.02	15.02	31.77
11N20SISO	2462	Ant1	15.48	15.48	35.32
11N40SISO	2422	Ant1	13.27	13.27	21.23
11N40SISO	2437	Ant1	13.58	13.58	22.80
11N40SISO	2452	Ant1	13.85	13.85	24.27

5.2 MPE Calculation

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

Note:

- 1) P_d = Power density in mW/cm^2
- 2) P_{out} = Output power to antenna in mW
- 3) G = gain of antenna in linear scale
- 4) R = min. separation distance between the antenna and the user.

The max. antenna gain is 2.61 dBi

Max. Conducted Power $P(\text{mW})$	Gain in Linear Scale G	Operation Distance $R(\text{cm})$	Power Density (mW/cm^2)	Limit (mW/cm^2)	Result
42.95	1.824	20	0.01558	1	Pass

So the device is exclusion from SAR test.

--End of the Report--