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1 Cover Page

RF Exposure Evaluation Report

Application No.: SHEM1907015510CR **FCC ID**: 2ADTD-K1T331W

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

Hangzhou Hikvision Technology Co., Ltd.
 Hangzhou Hikvision Electronics Co., Ltd.

Factory: 2.Hangzhou Hikvision Electronics Co., Ltd. 3.Hangzhou Hikvision Digital Technology Co., Ltd

1. No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang,

310052, China

Address of Factory:

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

County, Hangzhou, Zhejiang, 310052, China

3. No. 555, Qianmo Road, Binjiang District, Hangzhou City, Zhejiang

Province, China

Equipment Under Test (EUT):

EUT Name: Face Recognition Terminal

Model No.: DS-K1T331W

DS-K1T331, DS-K1T331UHK, DS-K1T331CKV, DS-K1T331UVS, DS-K1T331KVO, DS-K1T331HUN, DS-K1T331WUHK, DS-K1T331WCKV, DS-K1T331WUVS, DS-K1T331WHUN, DS-K1A330W, DS-K1A30W, DS-K1A30W, DS-K1A30W, DS-K1A30W, DS-K1A30W, DS-K1A30W, DS-K1A30W, DS-K1A30W, DS-K1

Add Model No.: K1A330, DS-K1A330UHK, DS-K1A330CKV, DS-K1A330UVS, DS-

K1A330KVO, DS-K1A330HUN, DS-K1A330WUHK, DS-K1A330WCKV,

DS-K1A330WUVS, DS-K1A330WKVO, DS-K1A330WHUN, DS-

K1XXXXXXX(X=0~9,A-Z or Blank)

Trade Mark: HIKVISION

FCC Rules 47 CFR §2.1091

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

Date of Receipt: 2019-07-29

Date of Test: 2019-08-12 to 2019-08-21

Date of Issue: 2019-08-29

Test Result: Pass*

Parlam Zhan E&E 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) 83071443, or email: CN.Doccheck@sgs.com

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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	2019-08-29	/			

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



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 12V by adapter	
Test voltage:	AC 120V 60Hz	
Antenna Gain	2.8 dBi	
Antenna Type	Integral 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	



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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.



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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

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM190701551001

The Fower Data is based on the Fil			1 CSt 1 teport	OI ILIVI 1907 OT
Test Mode	Test Channel	Ant	Power [dBm]	Power [mW]
11B	2412	Ant1	14.14	25.94
11B	2437	Ant1	14.97	31.41
11B	2462	Ant1	15.21	33.19
11G	2412	Ant1	14.15	26.00
11G	2437	Ant1	15.10	32.36
11G	2462	Ant1	15.40	34.67
11N20SISO	2412	Ant1	14.08	25.59
11N20SISO	2437	Ant1	15.03	31.84
11N20SISO	2462	Ant1	15.33	34.12
11N40SISO	2422	Ant1	12.91	19.54
11N40SISO	2437	Ant1	13.36	21.68
11N40SISO	2452	Ant1	13.61	22.96



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5.2 MPE Calculation

For FCC:

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/cm²

The max. antenna gain is

2.8 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm²)	Limit (mW/cm ²)	Result
34.67	1.905	20	0.01314	1	Pass

So the device is exclusion from SAR test.

-- End of the Report--