



Report No.: SZEM190901834702

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SAR Evaluation Report

Application No.: SZEM1909018347CR

Applicant: Shenzhen Videotimes Technology Co., Ltd

Address of Applicant: Room 601, Building B, Union Financial Building Fubao Street, Futian Free

Trade Zone, Shenzhen, 518000 China

Manufacturer: Shenzhen Videotimes Technology Co., Ltd

Address of Manufacturer: Room 601, Building B, Union Financial Building Fubao Street, Futian Free

Trade Zone, Shenzhen, 518000 China

Factory: Shenzhen Videotimes Technology Co., Ltd

Address of Factory: Room 601, Building B, Union Financial Building Fubao Street, Futian Free

Trade Zone, Shenzhen, 518000 China

Equipment Under Test (EUT):

EUT Name: 2.4GHz Digital Wireless Video Baby Monitor

Model No.: HB50, HB43 ♣

Please refer to section 4.1 of this report which indicates which item/model

was actually tested and which were electrically identical.

FCC ID: 2AF2R-HB50TX

Trade Mark: HelloBaby

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310

Date of Receipt: 2019-09-09

Date of Test: 2019-09-12 to 2019-09-26

Date of Issue: 2019-09-27

Test Result : PASS*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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2 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2019-09-27		Original		

Authorized for issue by:		
	Biu chen	
	Bill Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	_



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4 General Information

4.1 General Description of EUT

Power Supply:	Camera: Adapter 1: Model:K05S050100U Input:AC 100-240V 50/60Hz 0.2A Output:DC 5.0V 1.0A Adapter 2: Model:CS6E050100FU Input:AC 100-240V 50/60Hz 200mA Output:DC 5.0V 1.0A
Cable:	Adapter 1: DC cable:200cm unshielded Adapter 2: DC cable:200cm unshielded
Operation Frequency:	2412MHz-2469MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK
Sample Type:	Fixed production
Number of Channels:	20
Channel Spacing:	3MHz
Antenna Type:	Monopole
Antenna Gain:	2dBi

Declaration of EUT Family Grouping:

Model No.: HB50, HB43

Only the model HB50 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on LCD Panel size, product colour, model name and brand.



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4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab 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.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)		
(A) Limits for Occupational/Controlled Exposures						
0.3–3.0	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6 6		
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure			
0.3–1.34	614 824/ī 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30 30		

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*Pi*R^2)$

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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EUT RF Exposure Evaluation

For 2412MHz-2469MHz

Antenna: 2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.58 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Antenna	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Low	1	2412MHz	19	79.43	0.025	1.0	Pass

Note: Refer to report No. SZEM190901834701 for EUT test Max Conducted Peak Output Power value. The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

-End of Report-



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