MPE Test Report

Report No.:	ARFR-ESH-P22080199B-2
FCC ID:	2A789SC009
Product:	Smart Camera
Model:	main test model: SC009-WL2 Series model: SC009-WL2A、SC009-WL2B、SC009-WL2C；SC009-WL1、SC009-WL1A、SC009-WL1B、SC009-WL1C； SC009-WL3、SC009-WL3A、SC009-WL3B、SC009-WL3C
Received Date:	Aug.3, 2022
Test Date:	Aug.3 to Aug.23, 2022
Issued Date:	Aug.23, 2022
Applicant:	Ningbo Lingzhu Technology CO., Ltd.
Address:	No.578,Building 7,No.535 Kangqiao South Road,Jiangbei District,Ningbo,PRC
Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation
Lab Address:	No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)
FCC Registration / Designation Number:	176467/ CN1213

Test Lab
Cert 2343.01

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Release Control Record

Issue No.	Description	Date Issued
ARFR-ESH-P22080199B-2	Original release	Aug.23, 2022

1 Certificate of Conformity

Product:	Smart Camera
Brand:	--
Model:	main test model: SC009-WL2 Series model: SC009-WL2A、SC009-WL2B、SC009-WL2C；SC009-WL1、SC009-WL1A、SC009-WL1B、SC009-WL1C； SC009-WL3、SC009-WL3A、SC009-WL3B、SC009-WL3C
Applicant:	Ningbo Lingzhu Technology CO., Ltd.
Test Date:	Aug.3 to Aug.10, 2022
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-2019

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Yan.Zhou , **Date:** Aug.23, 2022

Yan ZHOU

Project Engineer

Approved by : , **Date:** Aug.23, 2022

Daniel SUN

EMC Lab Manager

2 General Information

2.1 General Description of EUT

Product	Smart Camera
Brand	--
Test Model	main test model: SC009-WL2 Series model: SC009-WL2A、SC009-WL2B、SC009-WL2C；SC009-WL1、SC009-WL1A、SC009-WL1B、SC009-WL1C； SC009-WL3、SC009-WL3A、SC009-WL3B、SC009-WL3C
Model Difference	--
Power Rating	DC 5V 1A
Modulation Type	CCK, DQPSK, DBPSK for DSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Operating Frequency	2412MHz-2462MHz
Number of Channel	802.11b, 802.11g and 802.11n (HT20):11
Antenna Type	PCB Antenna
Antenna Connector	--
Antenna Gain	1.26 dBi

Note:

1. For more details, please refer to the User's manual of the EUT.

3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm^2

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WLAN 2.4GHz					
2412-2462	17.56	1.26	20	0.0152	1

Conclusion:

The calculation result of MPE is less than the limit.

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