

## 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, Xinzhuang Road, Shanghai, P.R.China (201612)

**FCC Registration /  
Designation Number:** 176467/ CN1213



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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 :**

**, 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 <sup>2</sup> )	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<sup>2</sup>

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 <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
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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