

MPE Test Report

Report No.: ARFR-ESH-P22080200B-2

FCC ID: 2A789SC015

Product: Smart Camera

Model: main test model: SC015-WZ2

Series model: SC015-WZ2A、SC015-WZ2B、SC015-WZ2C; SC015-WZ1、SC015-WZ1A、SC015-WZ1B、SC015-WZ1C; SC015-WZ3, SC015-WZ3A、

SC015-WZ3B、SC015-WZ3C

Received Date: Aug.03, 2022

Test Date: Aug.03 to Sep.05, 2022

Issued Date: Sep.05, 2022

Applicant: Ningbo Lingzhu Technology CO., Ltd.

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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FCC Registration /

Designation Number: 176467/ CN1213



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Release Control Record

Issue No.	Description	Date Issued
ARFR-ESH-P22080200B-2	Original release	Sep.05, 2022



1 Certificate of Conformity

Product: Smart Camera

Brand: --

Model: main test model: SC015-WZ2

Series model: SC015-WZ2A、SC015-WZ2B、SC015-WZ2C; SC015-WZ1、SC015-WZ1A、SC015-WZ1B、SC015-WZ1C; SC015-WZ3、SC015-WZ3A、

SC015-WZ3B、SC015-WZ3C

Applicant: Ningbo Lingzhu Technology CO., Ltd.

Test Date: Aug.03 to Sep.05, 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.

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2 General Information

2.1 General Description of EUT

Product	Smart Camera			
Brand				
Test Model	main test model: SC015-WZ2 Series model: SC015-WZ2A, SC015-WZ2B, SC015-WZ2C; SC015-WZ1, SC015-WZ1A, SC015-WZ1B, SC015-WZ1C; SC015-WZ3, SC015-WZ3A, SC015-WZ3B, SC015-WZ3C			
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	1.88 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/cm²)	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/cm²)	Limit (mW/cm²)
WLAN 2.4GHz					
2412-2462	15.41	1.88	20	0.011	1

Conclusion:

The calculation result of MPE is less than the limit.

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