

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.					
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					
	copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted is report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this					
report are not indicative or representative specifically and expressly noted. Our rep us. You have 60 days from date of issuan notice shall be in writing and shall specifi unqualified acceptance of the complete uncertainty of measurement has been ex-	of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless ort includes all of the tests requested by you and the results thereof based upon the information that you provided to ce of this report to notify us of any material error or omission caused by our negligence, provided, however, that such cally address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your ness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the plicitity taken into account to declare the compliance or non-compliance to the specification. The report must not be zation, approval, or endorsement by TAF or any government agencies.					



### **Table of Contents**

Relea	se Control Record	3
1	Certificate of Conformity	4
2	General Information	5
2.1	General Description of EUT	5
3	RF Exposure	6
3.1	Limits For Maximum Permissible Exposure (MPE)	6
3.2	MPE Calculation Formula	6
3.3	MPE Calculation Formula	6
3.4	Calculation Result of Maximum Permissible Exposure	6



## **Release Control Record**

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



	1	Certificate o	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.

Prepared by :	V	, Date:	Sep.05, 2022
	Yan ZHOU		
	Project Engineer		
	BU ADT (Sright		
Approved by :	·····································	, Date:	Sep.05, 2022
_	Daniel SUN EMC Lab Manager		
	草		

Report No.: ARFR-ESH-P22080200B-2

Report Format Version: 6.1.1



# 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 Tim (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/cm <sup>2</sup> )	
WLAN 2.4GHz						
2412-2462	15.41	1.88	20	0.011	1	

#### **Conclusion:**

The calculation result of MPE is less than the limit.

--- END ----