

MPE Test Report					
Report No.:	CIDG-ESH-P23020103B-3				
FCC ID:	2A789SC053				
Product:	Smart Camera				
Test Model:	SC053-WQ2				
Series Model:	SC053-WQ2A, SC053-WQ2B, SC053-WQ2C, SC053-WQ1, SC053-WQ1A, SC053-WQ1B, SC053-WQ1C, SC053-WQ3, SC053-WQ3A, SC053-WQ3B, SC053-WQ3C				
Received Date:	Feb.22, 2023				
Test Date:	Feb.22 to Mar.02, 2023				
Issued Date:	Mar.08, 2023				
Applicant:	Ningbo Lingzhu Technology CO., Ltd.				
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Manufacturer:	Ningbo Lingzhu Technology CO., Ltd.				
Address:	No.578,Building 7,No.535 Kangqiao South Road, Jiangbei District, Ningbo City, Zhejiang Province, China				
Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation				
Lab Address:	No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)				
FCC Registration / Designation Number:	176467/ CN1213				
	ACCREDITED Test Lab Cert 2343.01				
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Release Control Record					
Issue No.	Description	Date Issued			
CIDG-ESH-P23020103B-3	Original release	Mar.08, 2023			



	BUREAU VERITAS
1 Certificate of	of Conformity
Product:	Smart Camera
Brand:	
Test Model:	SC053-WQ2, SC053-WQ2A, SC053-WQ2B, SC053-WQ2C, SC053-WQ1, SC053-WQ1A, SC053-WQ1B, SC053-WQ1C, SC053-WQ3, SC053-WQ3A, SC053-WQ3B, SC053-WQ3C
Applicant:	Ningbo Lingzhu Technology CO., Ltd.
Test Date:	Feb.22 to Mar.02, 2023
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992
compliance with the re Test (EUT) configurat	thas been tested by <b>BUREAU VERITAS ADT (Shanghai) Corporation</b> , and found equirement of the above standards. The test record, data evaluation & Equipment Under tions represented herein are true and accurate accounts of the measurements of the test record, data evaluation & Equipment Under the conditions specified in this report.
Approved by :	Project Engineer CORPORTION CORPORTION A Date: Mar.08, 2023

Report No.: CIDG-ESH-P23020103B-3

Report Format Verision: 6.1.1



## 2 General Information

### 2.1 General Description of EUT

Product	Smart Camera
Brand	
Model	SC053-WQ2, SC053-WQ2A, SC053-WQ2B, SC053-WQ2C, SC053-WQ1, SC053-WQ1A, SC053-WQ1B, SC053-WQ1C, SC053-WQ3, SC053-WQ3A, SC053-WQ3B, SC053-WQ3C
Difference	sensor, color and tiny enclosure difference, such as different chamfering These differences are not related to the radio frequency function. 1, 2, 3 in model name for different sensor and A, B, C in model name for different color and tiny enclosure difference.
Power Rating	DC 5V 1A
Modulation Type	CCK, DQPSK, DBPSK for DSSS 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
Output Power	15.21dBm
Antenna Type	FPC Antenna
Antenna Connector	
Antenna Gain	3.83dBi

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  $S = power density in mW/cm^2$ 

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

The tuned conducted Power (declared by client)

Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
2412-2462	15	±1	14	16

The measured conducted Power

Mode	Frequency (MHz)	Max. Conducted Output power(dBm)
11b	2412	15.21

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	16	3.83	20	0.019140	1	
Conclusion: The calculation result of MPE is less than the limit.						
END						