

MPE Test Report

Report No.: BUMK-ESH-P20111016B-3

FCC ID: 2AWXZTY-R8827

Product: Smart Camera

Model: SC103-WP2

Received Date: Nov.13, 2020

Test Date: Nov.18 to 27, 2020

Issued Date: Dec.15, 2020

Applicant: Zhejiang Tuya Smart Electronics Co., Ltd

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Province, China

Manufacturer: Zhejiang Tuya Smart Electronics Co., Ltd

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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Release Control Record

Issue No.	Description	Date Issued
BUMK-ESH-P20111016B-3	Original release	Dec.15, 2020



Certificate of Conformity Product: Smart Camera Brand: --Test Model: SC103-WP2 Applicant: Zhejiang Tuya Smart Electronics Co., Ltd Test Date: Nov.18 to Nov.24, 2020 Standards: FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992 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: Dec.15, 2020 Project Engineer Approved by: Date: Dec.15, 2020 Daniel SUN

EMC Lab Manager



2 General Description of EUT

Product	Smart Camera
Brand	
Test Model	SC103-WP2
Model Difference	
Nominal Voltage	5VDC/1A with adaptor 100-240V~,50/60Hz
Modulation Type	DSSS, OFDM
Modulation Technology	802.11b/g/n20
Operating Frequency	802.11b, 802.11g and 802.11n (HT20):2412MHz~2462MHz
Number of Channel	802.11b, 802.11g and 802.11n (HT20):11
Antenna Type	Ceramic Antenna
Antenna Connector	
Antenna Gain	3dBi

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	00-1,500		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	16.96	3	20	0.019722	1			

Conclusion:

The calculation result of MPE is less than the limit.

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