



## MPE Test Report

**Report No.:** BUMK-ESH-P20102044B-3

**FCC ID:** 2AWXZTY-R8822

**Product:** Smart Camera

**Model:** SC002-WP2

**Received Date:** Oct.30, 2020

**Test Date:** Nov.02 to Nov.18, 2020

**Issued Date:** Nov.19, 2020

**Applicant:** Zhejiang Tuya Smart Electronics Co., Ltd

**Address:** Room 901, Building 1, Huace Center, Xihu District, Hangzhou, Zhejiang Province, China

**Manufacturer:** Zhejiang Tuya Smart Electronics Co., Ltd

**Address:** Room 901, Building 1, Huace Center, Xihu District, Hangzhou, Zhejiang Province, China

**Issued By:** BUREAU VERITAS ADT (Shanghai) Corporation

**Lab Address:** No. 829, Xinzhan Road, Shanghai, P.R.China (201612)

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### Release Control Record

Issue No.	Description	Date Issued
BUMK-ESH-P20102044B-3	Original release	Nov.19, 2020



## 1 Certificate of Conformity

**Product:** Smart Camera

**Brand:** --

**Test Model:** SC002-WP2

**Applicant:** Zhejiang Tuya Smart Electronics Co., Ltd

**Test Date:** Nov.02 to Nov.18, 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 :**



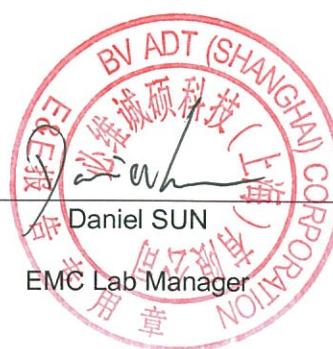
Yuan ZHANG

, Date:

Nov.19, 2020

Project Engineer

**Approved by :**



Daniel SUN

EMC Lab Manager

, Date:

Nov.19, 2020



## 2 General Description of EUT

Product	Smart Camera
Brand	--
Test Model	SC002-WP2
Model Difference	--
Nominal Voltage	5VDC/1A with adaptor 100-240V~,50/60Hz
Adapter Information	1) KA06E-0501000US I/P:100-240Vac, 50/60Hz, 0.25A O/P:5Vdc, 1A 2) TEKA-UCA10US I/P:100-240Vac, 50/60Hz, 0.2A O/P:5Vdc, 1A
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	PCB Antenna
Antenna Connector	--
Antenna Gain	1.55dBi

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	14.05	1.55	20	0.0072269	1

#### Conclusion:

The calculation result of MPE is less than the limit.

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