



## MPE Test Report

**Report No.:** ARFR-ESH-P19122002B-2

**FCC ID:** 2ANDLTY-R8808

**Product:** Smart Camera

**Test Model:** SC211-WE2

**Received Date:** Dec.20, 2019

**Test Date:** Dec.20, 2019 to Jan.09,2020

**Issued Date:** Jan.11,2020

**Applicant:** Hangzhou Tuya Information Technology Co., Ltd

**Address:** Room701, Building3, More Center,No.87 GuDun Road, Hangzhou, Zhejiang, China

**Manufacturer:** Hangzhou Tuya Information Technology Co., Ltd

**Address:** Room701, Building3, More Center,No.87 GuDun Road, Hangzhou, Zhejiang, China

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

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

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### Release Control Record

Issue No.	Description	Date Issued
ARFR-ESH-P19122002B-2	Original release	Jan. 11, 2020



# 1 Certificate of Conformity

**Product:** Smart Camera

**Brand:** --

**Test Model:** SC211-WE2

**Applicant:** Hangzhou Tuya Information Technology Co., Ltd

**Test Date:** Dec.20, 2019 to Jan.09,2020

**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 :**

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**, Date:**

Jan.11, 2020

Will YAN

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**Approved by :**

*Daniel Sun*

**, Date:**

Jan.11, 2020

Daniel SUN

RF Supervisor

## 2 General Information

### 2.1 General Description of EUT

Product	Smart Camera
Brand	--
Test Model	SC211-WE2
Serial Model:	SC211-Wy2 (y: 0-9, A-Z) & SC211-Wy2-xz (y: 0-9, A-Z; x: S or V; z: 0-9)
Model Difference	See Note 2
Power Rating	5VDC/2A with adaptor 100-240V~,50/60Hz
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Operating Frequency	See clause 3.2
Number of Channel	See clause 3.2
Antenna Type	FPC Antenna
Antenna Connector	--
Antenna Gain	3.0dBi

**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> )
2412-2462	14.38	3	20	0.010888	1

#### Conclusion:

The calculation result of MPE is less than the limit.

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