

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

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Zhejiang, China

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Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

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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

Brand: --

Product: Smart Camera

Test Model:	SC211-WE2					
Applicant:	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					
	TEEE 090. 1-1992					
The above equipment	t has been tested by BUREAU VERITAS ADT (Shanghai) Corporation, and found					
compliance with the re	quirement of the above standards. The test record, data evaluation & Equipment Under					
Test (EUT) configuration	ons represented herein are true and accurate accounts of the measurements of the					
sample's EMC charact	teristics under the conditions specified in this report.					
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	2 m					
Prepared by:	, Date : Jan.11, 2020					
	Will YAN					
	Project Engineer					
Approved by :	Daniel SUN Jan.11, 2020					
	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		
Woodington Type	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/cm²)	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

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
2412-2462	14.38	3	20	0.010888	1

Conclusion:

The calculation result of MPE is less than the limit.

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