

MPE Test Report					
Report No.:	ARFR-ESH-P20072483B-3				
	2AWXZTY-R8819				
	Smart Camera				
Model:	SC012-WL2				
Received Date:	Jul.27, 2020				
	Jul.30 to Aug.25, 2020				
	Sep.17, 2020				
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Applicant:	Zhejiang Tuya Smart Electronics Co., Ltd				
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Manufacturer:	Zhejiang Tuya Smart Electronics Co., Ltd				
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ssue No.	Release Control Record Description	Date Issued
RFR-ESH-P20072483B-3	Original release	Sep.17, 2020



1 Certificate of Con	formity
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Product: Smart Camera

Brand: --

Test Model: SC012-WL2

Applicant: Zhejiang Tuya Smart Electronics Co., Ltd

Test Date: Jul.30 to Aug.25, 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.

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	Project Engineer			
Approved by :	SHANGHAY CORR SHANGHAY CORR Danel SUN ENCLOSES Manager	, Date:	Sep.17,2020	

Report No.: ARFR-ESH-P20072483B-3



Adapter Information1) KA06E-0501000US I/P:100-240Vac, 50/60Hz, 0.25A O/P:5Vdc, 1AAdapter Information2) TPA-46B050100UU I/P:100-240Vac, 50/60Hz, 0.2A O/P:5Vdc, 1AModulation TypeDSSS, OFDMModulation Technology802.11b/g/n20/n40Operating Frequency802.11b, 802.11g and 802.11n (HT20):2412MHz~2462MHz, 802.11b, 802.11g and 802.11n (HT20):11, 802.11n (HT40):7Number of Channel802.11b, 802.11g and 802.11n (HT20):11, 802.11n (HT40):7Antenna TypeCeramic AntennaAntenna Gain1.82dBi		Smart Camera
Nominal Voltage120Vac, 60HzAdapter Information1) KA06E-0501000US I/P:100-240Vac, 50/60Hz, 0.25A O/P:5Vdc, 1A 2) TPA-46B050100UU I/P:100-240Vac, 50/60Hz, 0.2A O/P:5Vdc, 1AModulation TypeDSSS, OFDMModulation Technology802.11b/g/n20/n40S02.11b, 802.11g and 802.11n (HT20):2412MHz~2462MHz, 802.11n (HT40):2422MHz~2452MHzNumber of Channel802.11b, 802.11g and 802.11n (HT20):11, 802.11n (HT40):7Antenna TypeCeramic AntennaAntenna Gain1.82dBi	Brand	
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Antenna Gain 1.82dBi	Antenna Type	
1.02001	Antenna Connector	
lote: 1.For more details, please refer to the User's manual of the EUT.	Antenna Gain	1.82dBi
	ote: 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	-	-	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/cm ²)	
WLAN 2.4GHz						
2412-2462	16.67	1.82	20	0.0140517	1	
Conclusion: The calculation result of MPE is less than the limit. END						