

	MPE Test Report					
	Report No.:	ARFR-ESH-P20031102B-2				
FCC ID: 2ANDLTY-R8817						
	Product:	Smart Camera				
	Model:	SC031-WNG2-V2				
	Received Date:	Mar.11, 2020				
Test Date: Mar.12 to May.28, 2020						
	Issued Date:	Aug.05, 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)				
		ACCREDITED Test Lab Cart 2343.01				
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	Release Control Record	
Issue No.	Description	Date Issued
ARFR-ESH-P20031102B-2	Original release	Aug.05, 2020



VERITAS					
1 Certificate	of Conformity				
Product: Smart Camera					
Brand:	-				
Test Model:	SC031-WNG2-V2				
Applicant:	Hangzhou Tuya Information Technology Co., Ltd				
Test Date:	Mar.12 to May.28, 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 <b>BUREAU VERITAS ADT (Shanghai) Corporation</b> , 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 :	, Date: Aug.05, 2020				
	Scott XU				
Approved by :	Project Engineer Date: Aug.05, 2020 Daniel SUN EMC Lab Manager E&E				

Report No.: ARFR-ESH-P20031102B-2

Report Format Verision: 6.1.1



2 General Description of EUT				
Product	Smart Camera			
Brand				
Test Model	SC031-WNG2-V2			
Model Difference	See Note 2			
Power Rating	5VDC/1A 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  $mW/cm^2$ 

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/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )		
	WLAN 2.4GHz						
2412-2462	14.37	3	20	0.0108630	1		
Conclusion: The calculation result of MPE is less than the limit. END							