

	TEST REPOR	Т		
FCC ID:	2BFEP-DBCAM2			
Test Report No::	TCT240408E031			
Date of issue::	Apr. 11, 2024			
Testing laboratory:	SHENZHEN TONGCE TESTING	LAB		
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China			
Applicant's name::	CONVERGE BEAUTY LIMITED			
Address::	FLAT/RM C 22/F FORD GLORY PLAZA 37 WING HONG STREET LAI CHI KOK KOWLOON HONG KONG China			
Manufacturer's name:	Shenzhen Puge Electronics Co., Ltd.			
Address::	Building E, Urban Construction Industrial Zone, No. 1 Fenghuang Lingxia Road, Fuyong Street, Baoan District, Shenzhen, China			
Standard(s)::	FCC CFR Title 47 Part 1.1307			
Product Name::	Smart Wi-Fi Doorbell Camera			
Trade Mark:	N/A (C) (C)			
Model/Type reference:	T50, P10, P20, P30, P50, T10, T20, T30, N10, N20, N30, N50, U10, U20, U30, U50, M10, M20, M30, M50, M60			
Rating(s)::	Rechargeable Li-ion Battery DC 3.7V			
Date of receipt of test item:	Apr. 08, 2024			
Date (s) of performance of test:	Apr. 08, 2024 ~ Apr. 11, 2024			
Tested by (+signature):	Ronaldo LUO	Parala CARDE		
Check by (+signature):	Beryl ZHAO	Boy TCT STING		
Approved by (+signature):	Tomsin	Tomsies &		

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1. General Product Information

1.1. EUT description

Product Name:	Smart Wi-Fi Doorbell Camera	(c)
Model/Type reference:	T50	
Sample Number:	TCT240408E012-0101	
Operation Frequency:	For BLE: 2402MHz~2480MHz For 2.4G WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20) For SRD: 433.92MHz	
Modulation Type:	For BLE: GFSK For 2.4G WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM) For SRD:: FSK	
Antenna Type:	Internal Antenna	
Antenna Gain:	For BLE/2.4G WIFI: 1.65dBi For SRD: -1.74dBi	
Rating(s)::	Rechargeable Li-ion Battery DC 3.7V	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	T50	
Other models	P10, P20, P30, P50, T10, T20, T30, N10, N20, N30, N50, U10, U20, U30, U50, M10, M20, M30, M50, M60	

Note: T50 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names and appearance. So the test data of T50 can represent the remaining models.



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2. General Information

2.1. Test environment and mode

Normal condition				
	+25°C			
	DC 3.7V	(c ¹)		
	56%			
(c)	1008 mbar	(c) (
Keep the El	UT in continuous transmi	tting by select channel		
	Keep the El	+25°C DC 3.7V 56%		

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	_/		1	1

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339





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Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) For BLE: The maximum output power for antenna is 5.53dBm (3.57mW) at 2480MHz, 1.65dBi antenna gain(with 1.46 numeric antenna gain.)

For 2.4G WIFI: The maximum output power for antenna is 14.96dBm

(31.33mW) at 2462MHz, 1.65dBi antenna gain(with 1.46 numeric antenna gain.)

For SRD: The maximum output power for antenna is -18.87dBm (0.01mW) at

433.92MHz, -1.74dBi antenna gain(with 0.67 numeric antenna gain.)

Note: E[dBuV/m]=81.06 computational formula

 $EIRP[dBm] = E[dB\mu V/m] + 20 log (d[m]) - 104.77;$

Conducted Power = EIRP-4.7;

Where E is the electric field strength in V/m; d is the measurement distance in meters (m)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

$$E = \sqrt{\frac{30 \times P \times G}{d}} \quad \& \quad S = \frac{E^2}{3770}$$

Where E = Field Strength in Volts / meter

P = Power in Watts

G=Numeric antenna gain

d=Distance in meters

S=Power Density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation.

Yields: S=0.000199*P*G

Mode	Power (dBm)	Power(Mw)	numeric antenna gain	Power density (Mw/cm²)	Limit (Mw/cm²)	Result
BLE	5.53	3.57	1.46	0.001037	1.00	
2.4G WIFI	14.96	31.33	1.46	0.009103	1.00	PASS
SRD	-18.87	0.01	0.67	0.000001	0.29	

Note: BLE/2.4G WIFI/SRD Can be transmited simultaneously, MPE calculate is as follow, MPE=0.001037/1.0+0.009103/1.0+0.000001/0.29=0.01014<1.

*****END OF REPORT****