

	TEST REPOR	Т					
FCC ID:	2BN8F-VDP50						
Test Report No::	TCT250314E057						
Date of issue::	Mar. 19, 2025						
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB					
Testing location/ address:	2101 & 2201, Zhenchang Factor Fuhai Subdistrict, Bao'an District 518103, People's Republic of Ch	t, Shenzhen, Guang					
Applicant's name::	NUMLAKE TECH LIMITED						
Address::	UNIT 1505, 15/F WORKINGPOR HAU FOOK STREET TSIM SHA						
Manufacturer's name:	NUMLAKE TECH LIMITED						
Address:	UNIT 1505, 15/F WORKINGPOR HAU FOOK STREET TSIM SHA						
Standard(s)::	FCC CFR Title 47 Part 1.1307						
Product Name::	Smart Wi-Fi Doorbell Camera						
Trade Mark:	N/A		/ .				
Model/Type reference:	P50, P10, P20, P30, T10, T20, T U20, U30, U50, M10, M20, M30), N50, U10,				
Rating(s)::	Rechargeable Li-ion Battery DC	3.7V					
Date of receipt of test item:	Mar. 14, 2025						
Date (s) of performance of test:	Mar. 14, 2025 ~ Mar. 19, 2025	Ĉ					
Tested by (+signature):	Ronaldo LUO	R-nald tousce					
Check by (+signature):	Beryl ZHAO	Boyl 2 TC	GING				
Approved by (+signature):	Tomsin	Tomsies	847				

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name:	Smart Wi-Fi Doorbell Camera
Model/Type reference:	P50
Sample Number:	TCT250314E010-0101
Operation Frequency:	For BLE: 2402MHz~2480MHz For WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) For SRD: 433.92MHz
Modulation Type:	For BLE: GFSK For WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing (OFDM) For SRD: FSK
Antenna Type:	For BLE/WIFI: Internal Antenna For SRD: Spring Antenna
Antenna Gain:	For BLE/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	P50				
Other models	P10, P20, P30, T10, T20, T30, N10, N20, N30, N50, U10, U20, U30, U50, M10, M20, M30, M60				
Note: P50 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of P50 can represent the remaining models.					

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2. General Information

2.1. Test environment and mode

Item	Normal condition				
Temperature	+25°C				
Voltage	DC 3.7V				
Humidity	56%				
Atmospheric Pressure:	1008 mbar				
Test Mode:					
Transmitting Mode:	Keep the EUT in continuous transmitting by select channel				

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		4	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

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development 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





4. 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 5.52dBm (3.56mW) at 2480MHz, 1.65dBi antenna gain(with 1.46 numeric antenna gain.)

For WIFI: The maximum output power for antenna is 13.27dBm (21.23mW) at 2437MHz, 1.65dBi antenna gain(with 1.46 numeric antenna gain.)

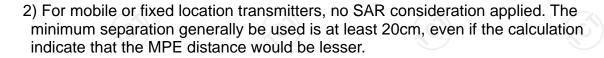
For SRD: The maximum output power for antenna is -27.61dBm (0.002mW) at 433.92MHz, -1.74dBi antenna gain(with 0.67 numeric antenna gain.)

Note: E[dBµV/m]= 72.32 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)



Calculation

Given

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

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	5.52	3.56	1.46	0.0010343	1.00	
WIFI	13.27	21.23	1.46	0.0061682	1.00	PASS
SRD	-27.61	0.002	0.67	0.000003	0.29	

Note: BLE/SRD Can be transmitted simultaneously, MPE calculate is as follow, MPE=0.0010343/1.0+0.0000003/0.29=0.0010353<1.

WIFI/SRD Can be transmitted simultaneously, MPE calculate is as follow, MPE=0.0061682/1.0+0.0000003/0.29=0.0061692<1.

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