FCC TEST REPORT
FCC ID: 2BG5G-B200

Product	:	Deadbolt
Model Name	:	B200
Brand	:	Desloc
Report No.	:	PTC24060712601E-FC03

Prepared for

Zhejiang Desman Intelligent Technology Co., LTD

Floor 1-3, Building 1, No.7 Jianghui South Road, Binjiang District, Hangzhou City, Zhejiang Province，China，310051

Prepared by

Precise Testing & Certification Co., Ltd.

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.

TEST RESULT CERTIFICATION

Applicant's name	:	Zhejiang Desman Intelligent Technology Co., LTD
Address	:	Floor 1-3, Building 1, No.7 Jianghui South Road, Binjiang District, Hangzhou City, Zhejiang Province, China, 310051
Manufacture's name	:	ShenZhen Zaifengda Technology Co.,LTD
Address	:	FuDiGang 2nd Industrial estate 1-2PingDong community, PingDi Street, LongGang District, Shenzhen, China
Product name	:	Deadbolt
Model name	:	B200
Test procedure	:	FCC CFR47 Part 1.1307(b)(1)
Test Date	:	Jun. 14, 2024 to Jun. 29, 2024
Date of Issue	:	Jul. 04, 2024
Test Result	:	PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

Jack zhou / Engineer

Technical Manager:

Simon Pu / Manager

Contents

2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		

3 General Information

3.1 General Description of E.U.T.

Product Name	:	Deadbolt
Model Name	:	B200
Additional model	:	N/A
Operation Frequency	:	2402-2480MHz NFC_13.56MHz
Type of Modulation	:	40 channels For DTS 1 channel For NFC
Antenna installation	:	PCB Antenna NFC_FPCB Antenna
Antenna Gain	:	BT: -1.16 dBi NFC: 0 dBi
Power supply	:	Input: 4.5-6V 200mA
Hardware Version	:	SN-9274-4-1
Software Version	:	6.4.39.240506

4 RF Exposure

Test Requirement   :   FCC Part 1.1307(b)(1)

Evaluation Method   :   KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2) = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2} \theta\varphi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 RF Output power

Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)
13.56	10.67	-84.53

Note: EIRP=E-104.8+20logD,
 Where
   E is the electric field strength in dBµV/m.
   EIRP is the equivalent isotropically radiated power in dBm.
   d is the specified measurement distance in m.
 where D=3, EIRP=E-95.2.		

4.5 Test Result

Test Mode	Test Frequency(MHz)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
BLE_1M	2440	0.77	2.35	2.35±1	2.162719	0.000329	1	Pass
NFC	13.56	1	-84.53	-84.53±1	0.000000	0.000000	13.27	Pass

4.6 simultaneous MPE Result

BLE_1M MPE Ratio	NFC MPE Ratio	simultaneous MPE Ratio	MPE Limits ratio	Test result
0.000329	0.000000	0.000329	1	PASS

******THE END REPORT******