RF EXPOSURE REPORT

Applicant:	Shenzhen Dangs Science and Technology Co., Ltd.				
Address:	1301, Block D1, Chuangzhi Yuncheng, Liuxian Avenue, Nanshan District, Shenzhen, Guangdong Province, China				
Manufacturer:	Guangzhou Shikun Electronics Co., Ltd				
Address:	No.6 Liankun Road, Huangpu District, Guangzhou, China				
Product Description:	Smart Projector				
Brand Name:	Dangbei				
Tested Model/HVIN:	N2mini				
FCC ID:	2AV2J-N2MINI				
Report No.:	JCF250114121-005				
Received Date:	Jan. 14, 2025				
Tested Date:	Jan. 14, 2025 ~ Feb. 12, 2025				
Issued Date:	Feb. 12, 2025				
Test Standards:	KDB 447498 D01 General RF Exposure Guidance v06				
Test Result:	Pass				
Prepared By:					
Roger Li					
Roger Li/Engineer	Date: Fride, 12, 2026				
Reviewed By:	JCOA S				
Kennys Zhang	HE IS				
Kennys Zhang/Engineer	Date: Pot 12, 2025				
Approved By:					
Talent sheng					

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Date: Feb. 12, 2025

Talent Zhang/Engineer

Report Revise Record

Report Version Revise Time		Issued Date	Valid Version	Notes
V1.0 /		Feb. 12, 2025	Original Report	/

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Brand Name:	Dangbei			
Model Name:	N2mini			
Difference Description: NA				

1. Test Report Declare

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Equipment Under Test

2.1. Description of EUT

EUT* Name:	Smart Projector				
Model Number:	N2mini				
EUT Function Description:	Please refer to the user manual				
Power Supply:	100-240V~ 50/60Hz 2A				
Hardware Version:	NA				
Software Version:	NA				
Radio Specification:	Bluetooth V5.4, IEEE 802.11a/b/g/n/ac/ax				
Operation Frequency: Bluetooth: 2402MHz-2480MHz IEEE802.11b/g/n/a/ac/ax: 2412MHz-2462MHz. 5180MHz-5825					
Modulation:	GFSK, π/4-DQPSK, 8DPSK IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11a/g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac (VHT20/40): OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax (HE20/40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Data Rate:	Bluetooth: 1Mbps, 2Mbps, 3Mbps IEEE 802.11b: up to 11Mbps IEEE 802.11g: up to 54Mbps IEEE 802.11n HT20: up to 72.2Mbps IEEE 802.11n HT40: up to 150Mbps IEEE 802.11a: up to 54Mbps IEEE 802.11ac VHT20: up to 86.7Mbps IEEE 802.11ac VHT40: up to 200Mbps IEEE 802.11ax HE20: up to 143.4Mbps IEEE 802.11ax HE40: up to 286.8Mbps				
Antenna Type: Bluetooth: FPC Antenna, 1.22 dBi 2.4G WIFI: FPC Antenna, 0.17 dBi 5G WIFI: FPC Antenna, 5.85 dBi					
Product Type:	□Portable device ☑Mobile device □Fixed device				

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

2.2. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description		
BT&BLE	🖾 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.		
2.4G WIFI	🛛 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.		
5G WIFI	⊠ 1TX,1RX	ANT 1 can be used as transmitting/receiving antenna.		

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. RF Exposure Measurement

4.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

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						
0.3–1.34	614	1.63	*(100)	30		
1.34–30	824/f	2.19/f	*(180/f ²)	30		
30–300	27.5	0.073	0.2	30		
300-1500			F/1500	30		
1500-100,000			1.0	30		

4.2. Limits for Maximum Permissible Exposure (MPE)

F = Frequency in MHz

* = Plane-wave equivalent power density.

4.3. MPE Calculation Formula

Pd = (Pout*G) / (4*pi*R²) where Pd = power density in mW/cm² Pout = output power to antenna in mW G = gain of antenna in linear scale Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4.4. Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

4.5. Conducted Power

Band	Channel Frequency (MHz)	Average Power (dBm)	
BT&BLE	2480	6.82	
2.4G WIFI	2462	17.95	
5G WIFI	5580	12.74	

5. RF Exposure Calculation

We used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

Band	Channel Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm²)	Limit (mW/cm²)	PASS/FAIL
BT&BLE	2402	6.82	1.22	0.001	1	PASS
2.4G WIFI	2437	17.95	0.17	0.013	1	PASS
5G WIFI	5580	12.74	5.85	0.014	1	PASS

Both of the WLAN and plug-in device can transmit simultaneously, the formula of calculated the MPE is:

CPD1/LPD1+CPD2/LPD2+.....etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Therefore the worst-case situation is 0.001/1.00+0.013/1.00+0.014/1.00=0.028, which is less than "1", This confirmed that the device comply with FCC 1.1310 MPE limit.

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