

RF EXPOSURE Test Report

Report No. : MTi250520017-0103E3
Date of Issue : 2025-06-26
Applicant : GoDirectinc.com, Inc
Product : GEARit 4K 2-Channel Dash Cam with Color Display
Model(s) : GI-DASH-2CH-4K-BK, GI-DASH-3CH-4K-BK
FCC ID : 2BKO4-GDC2

Shenzhen Microtest Co., Ltd.



TEST REPORT

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Test Result Certification		
Applicant	GoDirectinc.com, Inc	
Applicant Address	489 Yorbita Rd # B La Puente CA 91744.	
Manufacturer	GoDirectinc.com, Inc	
Manufacturer Address	489 Yorbita Rd # B La Puente CA 91744.	
Factory	Dongguan Lingdu Electronic Technology Co.,Ltd	
Factory Address	No.1, Longcheng Street, Qingxi Town, Dongguan City, Guangdong Province, China	
Product description		
Product name	GEARit 4K 2-Channel Dash Cam with Color Display	
Trademark	GEARit	
Model name	GI-DASH-2CH-4K-BK	
Series Model(s)	GI-DASH-3CH-4K-BK	
Standards	47 CFR Part 2.1091	
Test method	KDB 447498 D01 v06	
Testing Information		
Date of test	2025-06-20 to 2025-06-24	
Test Result	Pass	
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Reviewed by:	David Lee	<i>David. Lee</i>
Approved by:	Lewis Lian	<i>Lewis Lian</i>

1 RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) 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
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

MPE Calculation Method

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} = output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm (20cm)

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

2 Measurement Result

BLE&2.4G WiFi:

BLE Operation Frequency: 2402-2480MHz,
 2.4G WiFi Operation Frequency: 2412-2462MHz
 Power density limited: 1mW/ cm²
 Antenna Type: FPC Antenna
 Antenna gain: 2.32 dBi
 R=20cm
 $mW=10^{(dBm/10)}$
 Antenna gain Numeric= $10^{(dBi/10)}=10^{(2.32/10)}=1.71$

BLE:

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result (mW/cm ²)	Power density Limits (mW/cm ²)
		(dBm)		tune-up power (dBm)	(mW)	Gain (dBi)	Numeric		
2402	GFSK-1M	3.41	4±1	5	3.162	2.32	1.71	0.0011	1
2440		3.39	4±1	5	3.162	2.32	1.71	0.0011	1
2480		3.47	4±1	5	3.162	2.32	1.71	0.0011	1
2402	GFSK-2M	3.57	4±1	5	3.162	2.32	1.71	0.0011	1
2440		3.49	4±1	5	3.162	2.32	1.71	0.0011	1
2480		3.56	4±1	5	3.162	2.32	1.71	0.0011	1

2.4G WIFI:

Channel Freq. (MHz)	modulation	conducted power	Tune-up power	Max		Antenna		Evaluation result at 20cm	Power density Limits
		(dBm)	(dBm)	tune-up power		Gain		Power density (mW/cm ²)	(mW/c m ²)
				(dBm)	(mW)	(dBi)	Numeric		
2412	802.11b	15.87	16±1	17	50.119	2.32	1.71	0.01701	1
2437		15.82	16±1	17	50.119	2.32	1.71	0.01701	1
2462		17.26	17±1	18	63.096	2.32	1.71	0.02142	1
2412	802.11g	16.90	16±1	17	50.119	2.32	1.71	0.01701	1
2437		16.48	16±1	17	50.119	2.32	1.71	0.01701	1
2462		17.69	17±1	18	63.096	2.32	1.71	0.02142	1
2412	802.11n H20	16.69	16±1	17	50.119	2.32	1.71	0.01701	1
2437		16.43	16±1	17	50.119	2.32	1.71	0.01701	1
2462		17.25	17±1	18	63.096	2.32	1.71	0.02142	1
2422	802.11n H40	16.26	16±1	17	50.119	2.32	1.71	0.01701	1
2437		16.10	16±1	17	50.119	2.32	1.71	0.01701	1
2452		15.98	16±1	17	50.119	2.32	1.71	0.01701	1
2412	802.11AX20	17.16	17±1	18	63.096	2.32	1.71	0.02142	1
2437		16.90	16±1	17	50.119	2.32	1.71	0.01701	1
2462		17.63	17±1	18	63.096	2.32	1.71	0.02142	1
2422	802.11AX40	17.33	17±1	18	63.096	2.32	1.71	0.02142	1
2437		16.83	16±1	17	50.119	2.32	1.71	0.01701	1
2452		16.79	16±1	17	50.119	2.32	1.71	0.01701	1

Conclusion:

BLE and 2.4G WiFi cannot work at the same time.

For the max result: $0.02142 \leq 1.0$ test exclusion threshold, No SAR is required.

Statement

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