

RF EXPOSURE Test Report

Report No.: MTi230413006-05E2

Date of issue: 2023-05-26

Applicant: Shenzhen Lingdu Auto Electronics Co., Ltd.

Product: Dashcam

Model(s): D100, A11, A12, A14, M330, D500, M350, M360, SAL-CDC100, DC100

SAL-CDC100, DC100

FCC ID: 2ASWV-M330

Shenzhen Microtest Co., Ltd. http://www.mtitest.com





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Test Result Certification Shenzhen Lingdu Auto Electronics Co., Ltd. Applicant: 1807-1808 JinHua Building, No.468 Minzhi Avenue, Longhua District, Address: Shenzhen Manufacturer: Dongguan Lingdu Electronics Technology Co., Ltd. No.1, Longcheng Road, Xiekeng Village Committee, Qingxi Town, Address: Dongguan, Guangdong, China **Factory:** Dongguan Lingdu Electronics Technology Co., Ltd. No.1, Longcheng Road, Xiekeng Village Committee, Qingxi Town, Address: Dongguan, Guangdong, China **Product description** Dashcam Product name: Trademark: N/A D100 Model name: Serial Model: A11, A12, A14, M330, D500, M350, M360, SAL-CDC100, DC100 Standards: N/A KDB 447498 D01 v06 Test procedure: **Date of Test** 2023-05-19 ~ 2023-05-26 Date of test: **Pass** Test result:

Test Engineer	:	Dowid. Cee						
		(David Lee)						
Reviewed By:	:	leon chen						
		(Leon Chen)						
Approved By:	:	Tom Xue						
		(Tom Xue)						



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/	4.89/1	*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 Gene	ral Population/Uncontrolled	Exposure								
0.3-1.34	614	1.63	*100	30							
1.34-30	824/	2.19/1	*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: Pd= (Pout*G)\ (4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

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

Pd 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.



Measurement Result

2.4GWiFi:

Operation Frequency: WIFI 802.11b/g/n HT20: 2412-2462MHz,

Power density limited: 1mW/ cm²

2.4GWiFi: ANT GAIN: 1.52dBi

Channel Freq. modulation (MHz)	conducted power	Tune- up power	Max		Antenna	Evaluation result at 20cm	Power density Limits	
	modulation	(dDm)	(dPm)	tune-up power		Gain	Power density(mW/cm2)	(mW/cm2)
	(dBm)	(dBm)	(dBm)	(mW)	Numeric			
2412	7 802.11b	13.58	13±1	14	25.119	1.42	0.00709	1
2437		14.57	14±1	15	31.623	1.42	0.00893	1
2462		13.86	13±1	14	25.119	1.42	0.00709	1
2412	802.11g	13.11	13±1	14	25.119	1.42	0.00709	1
2437		14.01	14±1	15	31.623	1.42	0.00893	1
2462		14.02	14±1	15	31.623	1.42	0.00893	1
2412	2412 2437 802.11n H20 2462	13.72	13±1	14	25.119	1.42	0.00709	1
2437		14.05	14±1	15	31.623	1.42	0.00893	1
2462		13.50	13±1	14	25.119	1.42	0.00709	1

Conclusion:

For the max result: 0.00893≤ 1.0 SAR, No SAR is required.

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