



# FCC TEST REPORT

## FCC ID: 2ACFQ-ORBITC110

Product	:	Wireless Dashcam
Model Name	:	Orbit C110
Brand	:	MyGekoGear/gekogear
Report No.	:	PTC24030500101E-FC05
<b>Prepared for</b>		
ADESSO INC.		
20659 Valley BLVD. Walnut, CA 91789, U.S.A.		
<b>Prepared by</b>		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.		



## TEST RESULT CERTIFICATION

Applicant's name : ADESSO INC.  
Address : 20659 Valley BLVD. Walnut, CA 91789, U.S.A.  
Manufacture's name : ADESSO ELECTRONICS INC.  
Address : No.5,ChengDa East St.,Xiangang  
Community,Changan,DongGuan,China  
Product name : Wireless Dashcam  
Model name : Orbit C110  
Test procedure : FCC CFR47 Part 1.1307(b)(1)  
Test Date : Apr. 10, 2024 to May. 07, 2024  
Date of Issue : Jun. 05, 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.

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Test Engineer:

A handwritten signature in black ink that reads "Jack Zhou".

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink that reads "Simon Pu".

Simon Pu / Manager



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## 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	:	Wireless Dashcam
Model Name	:	Orbit C110
Additional model	:	Orbit D110, Orbit D120, Orbit D130, Orbit D140, Orbit D150, Orbit D210, Orbit D220, Orbit D230, Orbit D240, Orbit D250, Orbit D410, Orbit D420, Orbit D430, Orbit D440, Orbit D450, Aegis 110, Aegis 120, Aegis 130, Aegis 140, Aegis 150, Orbit C110, Orbit C120, Orbit C130, Orbit C140, Orbit C150, Orbit D160, Orbit D170, Orbit D180, Orbit D190, Orbit D260, Orbit D270, Orbit D280, Orbit D290, Orbit D460, Orbit D470, Orbit D480, Orbit D490, Aegis 400, Aegis 410, Aegis 420, Aegis 430, Aegis 440, Orbit D200, Orbit C100
Specification	:	Bluetooth BDR+EDR; Bluetooth BLE 802.11b/g/n HT20/HT40 802.11a/n HT20/HT40/ac20/ac40/ac80
Operation Frequency	:	2400-2480MHz for BT 2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40) 5G Wifi: 5180-5240 MHz 5.8G Wifi: 5745MHz~5825MHz
Number of Channel	:	79 channels for BDR+EDR 40 channels For DTS 11 channels for 802.11b/g/ n(HT20) 7 channels for 802.11n(HT40) 4 channels for 802.11a/n20/ac20 5180-5240 MHz 5 channels for 802.11a/n20/ac20 5745MHz~5825MHz 2 channels for 802.11n40/ac40 5190-5230 MHz 2 channels for 802.11n40/ac40 5755MHz~5795MHz 1 channels for 802.11 ac80
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK For DSS GFSK, For DTS DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n/a/ac
Antenna installation	:	PCB antenna
Antenna Gain	:	2.4G: 4.2 dBi 5G: 2.75 dBi
Power supply	:	Input: DC 5V/3A
Hardware Version	:	V1.0



Report No.: PTC24030500101E-FC05

Software Version	:	N/A
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## 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

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

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

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

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 Test Result

Test Mode	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
3DH5	2402	2.63	7.36	7.36 ± 1	6.854882	0.003587	1	Pass
BLE_1M	2402	2.63	7.18	7.18 ± 1	6.576578	0.003441	1	Pass
11G	2437	2.63	19.48	19.48 ± 1	111.686325	0.058443	1	Pass
11A	5240	1.88	10.26	10.26 ± 1	13.365955	0.005009	1	Pass

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