TCT 通测检测
TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. .... :	2AON4-BC096
Test Report No............... :	TCT250224E013
Date of issue.................. :	Mar. 06, 2025
Testing laboratory .... :	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name............ :	Global Media Industry Group Co., Ltd.
Address........................... :	2F, Bldg A, No. 46, Xingye 1st Rd, Fenghuang, Fuyong, Bao'an, Shenzhen, China
Manufacturer's name ... :	Global Media Industry Group Co., Ltd.
Address........................... :	2F, Bldg A, No. 46, Xingye 1st Rd, Fenghuang, Fuyong, Bao'an, Shenzhen, China
Standard(s) .... :	FCC CFR Title 47 Part 1.1307
Product Name................. :	Carplay & Android Auto DVR Mirror
Trade Mark .... :	imirror
Model/Type reference..... :	BC096, BC1126
Rating(s) .... :	DC 12-24V
Date of receipt of test item .... :	Feb. 24, 2025
Date (s) of performance of test................................... :	Feb. 24, 2025 ~ Mar. 06, 2025
Tested by (+signature) ... :	Yannie ZHONG
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

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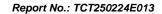
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1. General Product Information

1.1. EUT description

Product Name.......................:	Carplay & Android Auto DVR Mirror
Model/Type reference...........:	BC096
Sample Number.....................:	TCT250224E007-0101
Operation Frequency ....:	For BT/BLE: 2402MHz~2480MHz For WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)
Modulation Type...................:	For BT: GFSK, π/4-DQPSK, 8DPSK For BLE: GFSK For WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type.......................:	Internal Antenna
Antenna Gain.......................:	2.16dBi
Rating(s) ....:	DC 12-24V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	BC096	☒
Other models	BC1126	☐

Note: BC096 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names, screen and appearance. So the test data of BC096 can represent the remaining models.

2.   General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25ºC
Voltage	DC 12-24V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Transmitting Mode:	Keep the EUT in continuous transmitting by select channel

2.2.   Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:
- FCC - Registration No.: 645098
  SHENZHEN TONGCE TESTING LAB
  Designation Number: CN1205
  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.
- IC - Registration No.: 10668A
  SHENZHEN TONGCE TESTING LAB
  CAB identifier: CN0031
  The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.   Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) **For BT:** The maximum output power for antenna is 3.29dBm (2.13mW) at 2441MHz, 2.16dBi antenna gain(with 1.64 numeric antenna gain.)
For BLE: The maximum output power for antenna is 3.27dBm (2.12mW) at 2440MHz, 2.16dBi antenna gain(with 1.64 numeric antenna gain.)
For WIFI: The maximum output power for antenna is 13.61dBm (22.96mW) at 2412MHz, 2.16dBi antenna gain(with 1.64 numeric antenna gain.)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

Calculation

Given $E = \dfrac{\sqrt{30 \times P \times G}}{d}$ & $S = \dfrac{E^2}{3770}$

Where E = Field Strength in Volts / meter
P = Power in Watts
G = Numeric antenna gain
d = Distance in meters
S = Power Density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation.
Yields: S=0.000199*P*G

Mode	Power (dBm)	Power(mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
BT	3.29	2.13	1.64	0.000695	1.00	
BLE	3.27	2.12	1.64	0.000692	1.00	PASS
WIFI	13.61	22.96	1.64	0.007493	1.00	

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

Hotline: 400-6611-140   Tel: 86-755-27673339   Fax: 86-755-27673332   http://www.tct-lab.com