

TEST REPORT

FCC ID. :	2BE6N-W150	
Test Report No..... :	TCT240418E033	
Date of issue..... :	Apr. 29, 2024	
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..... :	GIRAFIT INC	
Address..... :	21642 GOLDEN POPPY COURT, WALNUT, CA 91749, United States	
Manufacturer's name ... :	GIRAFIT INC	
Address..... :	21642 GOLDEN POPPY COURT WALNUT CA 91749 United States	
Standard(s)	FCC CFR Title 47 Part 1.1307	
Product Name..... :	W150 Window Camera	
Trade Mark	N/A	
Model/Type reference..... :	GRF-W150W	
Rating(s)..... :	Adapter Information: Model: SA0101-0501000UA Input: AC 100-240V, 50/60Hz, 0.35A Max Output: DC 5.0V, 1.0A, 5.0W	
Date of receipt of test item	Apr. 18, 2024	
Date (s) of performance of test..... :	Apr. 18, 2024 ~ Apr. 29, 2024	
Tested by (+signature) ... :	Yannie ZHONG	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	W150 Window Camera
Model/Type reference.....:	GRF-W150W
Sample Number.....:	TCT240418E008-0101
Operation Frequency	For BLE: 2402MHz~2480MHz For 2.4G WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)/802.11ax(HT20)) 2422MHz~2452MHz (802.11n(HT40)/802.11ax(HT40)) For 5G WIFI: Band 1: 5180 MHz ~ 5240 MHz Band 3: 5745 MHz ~ 5825 MHz
Modulation Type	For BLE: GFSK For 2.4G WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM) For 5G WIFI: 256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type.....:	Metal Antenna
Antenna Gain.....:	For BLE/ 2.4G WIFI: 2.35dBi For 5G WIFI: Band 1: 4.09dBi Band 3: 4.54dBi
Rating(s).....:	Adapter Information: Model: SA0101-0501000UA Input: AC 100~240V, 50/60Hz, 0.35A Max Output: DC 5.0V, 1.0A, 5.0W

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

None.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	AC 120V
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-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry 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 BLE:** The maximum output power for antenna is 3.01dBm (2.00mW) at 2402MHz, 2.35dBi antenna gain(with 1.72 numeric antenna gain.)

For 2.4G WIFI: The maximum output power for antenna is 13.84dBm (24.21mW) at 2437MHz, 2.35dBi antenna gain(with 1.72 numeric antenna gain.)

For 5G WIFI: The maximum output power for antenna is 13.40dBm (21.88mW) at 5745MHz, 4.54dBi antenna gain(with 2.84 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

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

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 $d=20\text{cm}$ into above equation.

Yields: $S=0.000199 \times P \times G$

Mode	Power(mW)	numeric antenna gain	Power density (mW/cm ²)	Limit (mW/cm ²)	Result
BT	2.00	1.72	0.000685	1.0	PASS
2.4G WIFI	24.21	1.72	0.008287		
5G WIFI	21.88	2.84	0.012366		

Simultaneous transmitting:

Maximum Emissions Level					
Mode	BT	WIFI	Total MPE	Limit	Result
BT + 2.4G WIFI	0.000685	0.008287	0.008972	1.0	PASS
BT + 5G WIFI	0.000685	0.012366	0.013051		

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