

	TEST REPOR	RT				
FCC ID::	2BE6N-W150S					
Test Report No::	TCT241128E020	(0)	(6)			
Date of issue::	Dec. 09, 2024					
Testing laboratory::	SHENZHEN TONGCE TESTI	NG LAB	Ž)			
Testing location/ address:	2101 & 2201, Zhenchang Fac Fuhai Subdistrict, Bao'an Distr 518103, People's Republic of	rict, Shenzhen, Guar	trial Zone, ngdong,			
Applicant's name:	GIRAFIT INC	GIRAFIT INC				
Address::	21642 GOLDEN POPPY COL United States	JRT, WALNUT, Calif	ornia 91749,			
Manufacturer's name:	GIRAFIT INC					
Address::	21642 GOLDEN POPPY COURT, WALNUT, California 91749, United States					
Standard(s)::	FCC CFR Title 47 Part 1.1307					
Product Name::	W150S Window Camera	(6)	(0)			
Trade Mark:	N/A					
Model/Type reference:	GRF-W150SW, GRF-W150S, W150S, W150SW, W150SG,	1	F-W150SG,			
Rating(s)::	Adapter Information: MODEL: BS05A-0501000US INPUT: AC 100-240V, 50/60Hz, 0.25A Max. OUTPUT: DC 5V, 1000mA					
Date of receipt of test item:	Nov. 28, 2024	6	7			
Date (s) of performance of test:	Nov. 28, 2024 ~ Dec. 09, 2024	4				
Tested by (+signature):	Yannie ZHONG	Yannie Zanec	E/A			
Check by (+signature):	Beryl ZHAO	Boyl ZUETC	T) GIN			
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1. General Product Information

1.1. EUT description

Product Name:	W150S Window Camera	(C)
Model/Type reference:	GRF-W150SW	
Sample Number:	TCT241128E011-0101	
Operation Frequency:	(802.11n(HT40)/802.11ax(HE40)) For 5G WIFI: Band 1: 5180 MHz ~ 5240 MHz Band 3: 5745 MHz ~ 5825 MHz	
Modulation Type:	For BLE: GFSK For 2.4G WIFI: DSSS (802.11b), OFDM (802.11g/802.11n/802.11ax) For 5G WIFI: 256QAM, 64QAM, 16QAM, BPSK, QPSK	
Antenna Type:	Metal Antenna	
Antenna Gain:	For BLE/ 2.4G WIFI: 3.38dBi For 5G WIFI: Band 1: 3.08dBi Band 3: 3.76dBi	
Rating(s):	Adapter Information: MODEL: BS05A-0501000US INPUT: AC 100-240V, 50/60Hz, 0.25A Max. OUTPUT: DC 5V, 1000mA	

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	GRF-W150SW	
Other models	GRF-W150S, GRF-W150SB, GRF-W150SG, W150S, W150SW, W150SG, W150SB	

Note: GRF-W150SW is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names, image pixel and color. So the test data of GRF-W150SW can represent the remaining models.

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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
1		1	1	1

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 BLE:** The maximum output power for antenna is -2.83dBm (0.52mW) at 2402MHz, 3.38dBi antenna gain(with 2.18 numeric antenna gain.)

For 2.4G WIFI: The maximum output power for antenna is 14.09dBm (25.64mW) at 2412MHz, 3.38dBi antenna gain(with 2.18 numeric antenna gain.) For 5G WIFI: The maximum output power for antenna is 14.45dBm (27.86mW) at 5745MHz, 3.76dBi antenna gain(with 2.38 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

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

Where E = Field Strength in Volts / meter

P = Power in Watts

G=Numeric antenna gain

d=Distance in meters

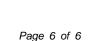
S=Power Density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation.

Yields: S=0.000199*P*G

Mode	Power(mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
BLE	0.52	2.18	0.000226		
2.4G WIFI	25.64	2.18	0.011123	1.0	PASS
5G WIFI	27.86	2.38	0.013195		





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