

	<b>TEST REPOR</b>	T					
FCC ID: 2BE6N-W550S							
Test Report No::	: TCT250324E042						
Date of issue:	Mar. 31, 2025						
Testing laboratory::	SHENZHEN TONGCE TESTING	G 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 COUR United States	T, WALNUT, California 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::	W550S Window Camera						
Trade Mark:	N/A						
Model/Type reference:	GRF-W550S, GRF-W550SW, W	/550S, W550SW, L-CW1543S					
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	Mar. 24, 2025						
Date (s) of performance of test:	Mar. 24, 2025 ~ Mar. 31, 2025						
Tested by (+signature):	Ronaldo LUO	R-nald FOUSCE					
Check by (+signature):	Beryl ZHAO	Bod A TOT					
Approved by (+signature):	Tomsin	Tomsies &					

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# **Table of Contents**

1.									
	1.2.	Model(s)	list						
2.	Ger 2.1.	neral Inf Test env	ormation	and mode.				()	4 4
	2.2.	Descripti	ion of Sup	port Units					4
3.	Fac 3.1.	ilities au Facilities	nd Accre	ditations	s		(0)		5 5
	3.2.	Location							5
4.	Tes	st Result	s and Me	easuremo	ent Data	(80)		(0)	6



# 1. General Product Information

# 1.1. EUT description

Product Name:	W550S Window Camera	
Model/Type reference:	GRF-W550S	
Sample Number:	TCT250324E028-0101	
Operation Frequency:	For BLE: 2402MHz~2480MHz For 2.4G WIFI: (802.11b/802.11g/802.11n(HT20)/802.11ax(HE20)) (802.11n(HT40)/802.11ax(HE40)) For 5G WIFI: Band 1: 5180MHz~5240MHz Band 3: 5745MHz~5825MHz	
Modulation Type:	For 2.4G WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n/802.11ax: Orthogonal Frequency Division Multiplexing (OFDM) For 5G WIFI: 256QAM, 64QAM, 16QAM, BPSK, QPSK	
Antenna Type:	Chip Antenna	(0)
Antenna Gain:	For BLE: 1.03dBi For 2.4G WIFI: 1.03dBi For 5G WIFI: Band 1: 1.54dBi Band 3: 2.18dBi	
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
	GRF-W550S	
Other models	GRF-W550SW, W550S, W550SW, L-CW1543S	

Note: GRF-W550S is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names, image pixel and color. So the test data of GRF-W550S can represent the remaining models.

Page 3 of 6

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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	Equipment Model No.		FCC ID	D 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.

Page 4 of 6



### 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 1.86dBm (1.53mW) at 2480MHz, 1.03dBi antenna gain(with 1.27 numeric antenna gain.)

For 2.4G WIFI: The maximum output power for antenna is 13.27dBm (21.23mW) at 2437MHz, 1.03dBi antenna gain(with 1.27 numeric antenna gain.)

For 5G WIFI: The maximum output power for antenna is 13.12dBm(20.51mW) at 5745MHz, 2.18dBi antenna gain(with 1.65 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 (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
BLE	1.86	1.53	1.27	0.000387	1.00	
2.4G WIFI	13.27	21.23	1.27	0.005365	1.00	PASS
5G WIFI	13.12	20.51	1.65	0.006734	1.00	

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

