TCT通测检测 TESTING CENTRE TECHNOLOGY					
TEST REPORT					
FCC ID	2BE6N-K100				
Test Report No:	FCT240322E032				
Date of issue:	Apr. 03, 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::	K100 Indoor Camera				
Trade Mark :	N/A 🔇 🤇				
Model/Type reference :	GRF-K100W, K100, CK008				
Rating(s):	Adapter Information: Model: SA0101-0501000UA Input: AC 100–240V, 50/60Hz, 0.35A Output: DC 5.0V, 1.0A, 5.0W				
Date of receipt of test item	Mar. 22, 2024				
Date (s) of performance of test:	Mar. 22, 2024 ~ Apr. 03, 2024				
Tested by (+signature) :	Ronaldo LUO				
Check by (+signature) :	Beryl ZHAO				
Approved by (+signature):	Tomsin Tomsines				

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Report No.: TCT240322E032

Table of Contents

1.	General Product Information			3
	1.1. EUT description	<u>(0)</u>		3
	1.2. Model(s) list			3
2.	General Information			4
	2.1. Test environment and mode			4
	2.2. Description of Support Units			
3.	Facilities and Accreditations			5
	3.1. Facilities	\sim		5
	3.2. Location			5
4.	Test Results and Measurement Data	<u>(,G`)</u>	<u>(ح)</u>	6



Page 2 of 6



1. General Product Information

1.1. EUT description

Product Name:	K100 Indoor Camera	(\mathbf{c})
Model/Type reference:	GRF-K100W	
Sample Number	TCT240322E029-0101	
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	Ś
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: 4.49dBi For 5G WIFI: Band 1: 4.81dBi Band 3: 4.88dBi	
Rating(s):	Adapter Information: Model: SA0101-0501000UA Input: AC 100–240V, 50/60Hz, 0.35A 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

No.	. Model No.	
1	GRF-K100W	
Other models	K100, CK008	
	is tested model, other models are derivative models. The models are i fferent on the model names. So the test data of GRF-K100W can repr	

Report No.: TCT240322E032

2. General Information

2.1. Test environment and mode

ltem	Normal condition			
Temperature		+25°C		
Voltage	(c)	AC 120V		
Humidity	.)	56%		
Atmospheric Pressure:	(\mathbf{c})	1008 mbar		(C
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
/		L	1	1
Mater				

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.

Report No.: TCT240322E032



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 6.93dBm (4.93mW) at 2440MHz, 4.49dBi antenna gain(with 2.81 numeric antenna gain.)
For 2.4G WIFI: The maximum output power for antenna is 14.84dBm (30.48mW) at 2462MHz, 4.49dBi antenna gain(with 2.81 numeric antenna gain.)
For 5G WIFI: The maximum output power for antenna is 16.04dBm (40.18mW) at 5745MHz, 4.88dBi antenna gain(with 3.08 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

- $E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$
- 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=20cm into above equation. Yields: S=0.000199*P*G

Mode	Power(mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
BT	4.93	2.81	0.002757	1.0	PASS
2.4G WIFI	30.48	2.81	0.017044		
5G WIFI	40.18	3.08	0.024627		

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

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