TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2BE6N-T350S	
Test Report No..... :	TCT241108E056	
Date of issue..... :	Nov. 25, 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, California 91749, United States	
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..... :	T350S Outdoor Pan-Tilt Camera	
Trade Mark ..... :	N/A	
Model/Type reference..... :	GRF-T350SW, GRF-T350S, T350S, T350SW	
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. 08, 2024	
Date (s) of performance of test..... :	Nov. 08, 2024 ~ Nov. 25, 2024	
Tested by (+signature) ... :	Onnado YE	Onnado
Check by (+signature).... :	Beryl ZHAO	Beryl
Approved by (+signature):	Tomsin	Tomsin

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

1. General Product Information

1.1. EUT description

Product Name.....:	T350S Outdoor Pan-Tilt Camera
Model/Type reference.....:	GRF-T350SW
Sample Number.....:	TCT241108E047-0101
Operation Frequency.....:	For BLE: 2402MHz~2480MHz For 2.4G WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)/802.11ax(HE20)) 2422MHz~2452MHz (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: 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.....:	FPC Antenna
Antenna Gain.....:	For BLE/ 2.4G WIFI: 1.99dBi For 5G WIFI: Band 1: 2.36dBi Band 3: 1.47dBi
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-T350SW	☒
Other models	GRF-T350S, T350S, T350SW	☐

Note: GRF-T350SW 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 or color. So the test data of GRF-T350SW can represent the remaining models.

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2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25ºC
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.

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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 0.79dBm (1.20mW) at 2480MHz, 1.99dBi antenna gain(with 1.58 numeric antenna gain.)
For 2.4G WIFI: The maximum output power for antenna is 14.66dBm (29.24mW) at 2452MHz, 1.99dBi antenna gain(with 1.58 numeric antenna gain.)
For 5G WIFI: The maximum output power for antenna is 13.56dBm (22.70mW) at 5230MHz, 2.36dBi antenna gain(with 1.72 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 $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

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/cm^2)	Limit (mW/cm^2)	Result
BLE	1.20	1.58	0.00038	1.0	PASS
2.4G WIFI	29.24	1.58	0.00919		
5G WIFI	22.70	1.72	0.00777		

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

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